Specificația Tehnică Completată

Model: Logiq Fortis HDU PN:H43302LA; Producător: GE Healthcare/ GE Ultrasound Korea in comun cu GE Medical Systems; Tara: Korea si Franta.

Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către autoritatea ofertantă
Sistem ecografic digital staționar clasa Expert da Sistem ecografic de tip staționar da APLICAȚII CLINICE general, dedicat aplicațiilor abdominale, ginecologice, musculoscheletale, transcraniale, parți moi, etc; da	Sistem ecografic digital staționar clasa Expert DA Sistem ecografic de tip staționar DA APLICAȚII CLINICE general, dedicat aplicațiilor abdominale, ginecologice, musculoscheletale, transcraniale, parți moi, etc; DA pagina 1-2 din LOGIQ Fortis R3.x HDU product specification sheet
PROBE PORTURI ACTIVI ≥ 4	/Applications PROBE PORTURI ACTIVI - 4 porturi active + 1 port inactiv DA pagina 1 din LOGIQ Fortis R3.x HDU product specification sheet/ Console Design
PROBE TIP Linear/ Fregvenţa minim intre valorile de la maxim 4.0 MHz pina la minim 14.0 MHz Tehnologie pentru aplicatii Părţi moi, vasculare, MSK; minim 5 frecvente in modul B, 3 frecvente in armonici superioare, 3 frecvente in armonici tisulare diferentiale 1 bucata Single cristal/ Matricial/ XDclear sau alta tehnologie de ultima generaţie care formează o imagine de rezoluţie înaltă. Da	PROBE TIP Linear/ Model ML6-15-D Fregvența 4.0 MHz 16.0 MHz DA Tehnologie pentru aplicatii Părți moi, vasculare, MSK; 6 frecvente in modul B, 4 frecvente in armonici superioare, 4 frecvente in armonici tisulare diferentiale este acelas lucru ca si armonice superioare 1 bucata Single cristal/ Matricial/ XDclear sau alta tehnologie de ultima generație care formează o imagine de rezoluție înaltă. DA pagina 19 din LOGIQ Fortis R3.x HDU product specification sheet
Endocavitar Frecventa minim intre valorile de la maxim 3,0 MHz pina la minim 10,0 MHz	Endocavitar IC5-9-D Frecventa 3,0 MHz - 10,0 MHz
Tehnologie pentru aplicații OB/GYN; minim 5 frecvente in modul B, 3 frecvente in armonici superioare, 3 frecvente in armonici tisulare diferențiale	Tehnologie pentru aplicații OB/GYN; 6 frecvente in modul B, 4 frecvente in armonici superioare, 4 frecvente in armonici tisulare diferențiale este acelas lucru ca si armonice superioare. DA pagina 17-18 din LOGIQ Fortis R3.x HDU product specification sheet
Convex/Abdomen Frecvenţa minim intre valorile de la maxim 1.9 MHz până la minim 6.0 MHz Câmpul de vedere /Field of View minim 70° Tehnologie pentru aplicaţii abdominale; minim 5 frecvente in modul B, 3 frecvente in armonici superioare, 3 frecvente in armonici tisulare diferenţiale Single cristal/ Matricial/ XDclear sau alta tehnologie de ultima generaţie care formează o imagine de rezoluţie înaltă. Da	Convex/Abdomen C1-6-D, XDclear Frecvența 1,0 MHz - 6.0 MHz Câmpul de vedere /Field of View 80° Tehnologie pentru aplicații abdominale; 4 frecvente in modul B, 6 frecvente in armonici superioare, 6 frecvente in armonici tisulare diferențiale este acelas lucru ca si armonice superioare. Single cristal/ Matricial/ XDclear sau alta tehnologie de ultima generație care formează o imagine de rezoluție înaltă. DA
Multifrequency da Permite lucru cu sondele fără a fi necesar procurarea unui modul pentru scanare Liniar - Single cristal/	Multifrequency DA Permite lucru cu sondele fără a fi necesar procurarea unui modul pentru scanare Liniar - Single cristal/ Matricial/ XDclear sau alta tehnologie de ultima generație

Matricial/ XDclear sau alta tehnologie de ultima generație care formează o imagine de rezoluție înaltă. da

Liniar cu aplicați micro circulație si muscoloschiletal cu frecvență de vârf minim 18 MHz

Convex tehnologie standard adult si copii

Phased/cardiacă tehnologie

Modul de lucru Elastografie prin Shear Wave pentru toate sondele solicitate Linear, Convex, Endocavitar (Linear pentru examinarea tiroidei și glandelor mamare;

Convex pentru examinare ficatului;

Endocavitar pentru examinări ginecologice si prostatei)

Sonda Endocavitara tehnologie standard da

ADINCIMEA DE SCANARE minim intre valorile 1 - 49 cm

NIVELE DE GRI ≥256

Focus minim în 8 nivele sau tehnologie de focus continuu pe toata adîncimea scanta

Canale digitale minim 6.000.000 sau tehnolgie de canale "infinite"

POSTPROCESARE da

IMAGINE MODURI B-mod (2D) - prezentări listați standarde de măsurări incluse da

care formează o imagine de rezoluție înaltă. DA In acest sens atasez Logiq Fortis Probe Guide pagina 2 L2-9-D XDClear, ML6-15-D comunicare cu tehnologia XDClear este in Standart nu necesita o oactivare separta prin procurea unui modul sau obtiuni de soft.

Liniar cu aplicați micro circulație si muscoloschiletal cu frecvență de vârf 20,0 MHz L6-24-D pagina 18 din LOGIQ Fortis R3.x HDU product specification sheet

Convex tehnologie standard adult si copii DA C2-7-D pagina 2 din Logiq Fortis Probe Guide
Phased/cardiacă tehnologie DA M5Sc-D, 6S-D pagina 2 din Logiq Fortis Probe Guide

Modul de lucru Elastografie prin Shear Wave pentru toate sondele solicitate Linear, Convex, Endocavitar (
-Linear pentru examinarea tiroidei și glandelor mamare;

DA C1-6-D pagina 11 din LOGIQ Fortis R3.x HDU product specification sheet *Shear Wave Elastography*

-Convex pentru examinare ficatului; **DA ML6-15-D pagina 11 din LOGIQ Fortis R3.x HDU product specification sheet** *Shear Wave Elastography*

-Endocavitar pentru examinări ginecologice si prostatei; DA IC5-9-D pagina 11LOGIQ Fortis R3.x HDU product specification sheet *Shear Wave Elastography*)
Sonda Endocavitara tehnologie standard DA IC5-9-D pagina 2 din Logiq Fortis Probe Guide.

ADINCIMEA DE SCANARE minim intre valorile **DA 1 - 100** cm pagina 7 din LOGIQ Fortis R3.x HDU product specification sheet *Scanning Parameters*

NIVELE DE GRI - 256 pagina 7 din LOGIQ Fortis R3.x HDU product specification sheet *Scanning Parameters*

Focus tehnologie de focus continuu pe toata adîncimea scanta DA pagina 7 din LOGIQ Fortis R3.x HDU product specification sheet *Scanning Parameters > Continuous dynamic receive focus*

Canale digitale tehnolgie de canale "infinite" DA pagina 7 din LOGIQ Fortis R3.x HDU product specification sheet Scanning Parameters > cSound™ Imageformer: Infinite number of effective channels
POSTPROCESARE DA

IMAGINE MODURI B-mod (2D) - prezentări listați standarde de măsurări incluse DA din pagina 13 din LOGIQ Fortis R3.x HDU product specification sheet *Measurements/Calculations > General B-mode:*

- Depth and distance
- Circumference (ellipse/trace)
- Area (ellipse/trace)
- Volume (ellipsoid)

M-mod - prezentări listate standarde de măsurări incluse

M-mod color prezentări listați standarde de măsurări incluse da

M-mod sa poată fi înregistrat in memorie: minimum 8 sec da

Harmonic imaging da

DOPPLER

Tip Color (CF) prezentări listate standarde de măsurări incluse da

- % Stenosis (area or diameter)
- Angle between two lines
- Dual B-mode capability

La fel separata este indicat masuratorile Cardiace in B-Mode pagina 21-22 din LOGIQ Fortis R3.x HDU product specification sheet

M-mod - prezentări listate standarde de măsurări incluse DA din pagina 13, 22 din LOGIQ Fortis R3.x HDU product specification sheet *Measurements/Calculations > M-Mode:*

- -M-Depth
- -Distance
- -Time
- -Slope
- -Heart rate

M-mod color prezentări listați standarde de măsurări incluse DA este acei ca si in M-Mod in prima faza iar in Faza a 2 a este in comun lucru TVI (Doplerului Tisular) care pina la urma rezulta la acesi masuratori de *Time, Distance, Depth, Heart rate, Slope;*Rezultatele acestor combianati de masuratori in finala da Fractia de Ejectia. Pagina 11 din LOGIQ Fortis R3.x HDU product specification sheet

M-mod sa poată fi înregistrat in memorie: - 10 sec da pagina 293/6-7 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3

Harmonic imaging DA pagina 2 din LOGIQ Fortis R3.x HDU product specification sheet System Standart Features> Coded harmonic imaging

DOPPLER

Tip Color (CF) prezentări listate standarde de măsurări incluse DA pagina 13 din LOGIQ Fortis R3.x HDU product specification sheet Measurements > General Doppler measurements/calculations:

Velocity

Time

A/B ratio (velocities/frequency ratio)

PS (Peak Systole)

ED (End Diastole)

PS/ED (PS/ED Ratio)

ED/PS (ED/PS Ratio)

AT (Acceleration Time)

ACCEL (Acceleration)

TAMAX (Time Averaged Maximum Velocity)

Volume flow (TAMEAN and vessel area)

Heart rate

PI (Pulsatility Index)

RI (Resistivity Index)

Pulsativ (PW) prezentări listate standarde de măsurări incluse da

Pulsativ (PW) prezentări listate standarde de măsurări incluse DA este in total descrisă in modulul vascular. PW find elementul de baza pentru modul vascualr. SYS DCCA (Systolic Distal Common Carotid Artery) DIAS DCCA (Diastolic Distal Common Carotid Artery) SYS MCCA (Systolic Mid Common Carotid Artery) DIAS MCCA (Diastolic Mid Common Carotid Artery) SYS PCCA (Systolic Proximal Common Carotid Artery) DIAS PCCA (Diastolic Proximal Common Carotid Artery) SYS DICA (Systolic Distal Internal Carotid Artery) DIAS DICA (Systolic Distal Internal Carotid Artery) SYS MICA (Systolic Mid Internal Carotid Artery) DIAS MICA (Diastolic Mid Internal Carotid Artery) SYS PICA (Systolic Proximal Internal Carotid Artery) DIAS PICA (Diastolic Proximal Internal Carotid Artery) SYS DECA (Systolic Distal External Carotid Artery) DIAS DECA (Diastolic Distal External Carotid Artery) SYS PECA (Systolic Proximal External Carotid Artery) DIAS PECA (Diastolic Proximal External Carotid Artery) Valabile in toate modurile de lucru

PI

RI

HR

Volume flow

PS

ED

MD

ΑT

ACC

PS/ED si ED/PS

PVAL.

Pagina 13 si 11-12 din LOGIQ Fortis Data sheet
Tisular prezentări listate standarde de măsurări incluse da
Find un tip de diagnostic cardica are este inclus in
masuratori si calculare Doppler Mode Measurements

Pagina 18-19 din LOGIQ Fortis Data sheet.

Tisular prezentări listate standarde de măsurări incluse da

Afișare frecvență cu posibilitatea de modificare după caz da

Măsurători sunt posibile (timp, viteza, accelerație, contur velocități, ritm cardiac, etc) da

Volum ajustabil da

Afișare frecvență cu posibilitatea de modificare după caz DA pagin 219/5-3, 221/5-5, 1025/13-117 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev.3 pagina 4, 7, 8, 9 din LOGIQ Fortis R3.x HDU product specification sheet.

Măsurători sunt posibile (timp, viteza, accelerație, contur velocități, ritm cardiac, etc) DA pagina 13 din LOGIQ Fortis R3.x HDU product specification sheet.

Volum ajustabil DA este un control activ ca standart pe PW (Pulsativ) si deja in cardica, vezi imaginea la touch pad sub tabelul completat, butonul "Volume"

Linia de baza este ajustabila pentru si PW da Linia de baza este ajustabila pentru si PW DA este un control activ ca standart pe PW (Pulsativ) si deja in cardica, vezi imaginea la touch pad sub tabelul completat, butonul "Basline" Analiza automata doppler spectral da Analiza automata doppler spectral DA este un control activ ca standart pe PW (Pulsativ) si deja in cardica, vezi imaginea la touch pad sub tabelul completat, butonul "Modif Auto Calcul" Scanare oblica cu unghi ajustabil da Scanare oblica cu unghi ajustabil DA pagina 2 din LOGIQ Fortis R3.x HDU product specification sheet Doppler tisular (TDI) pentru mod B si mod M, opţiune cu Doppler tisular (TDI) pentru mod B si mod M, opţiune cu posibilitate de ubgradare DA pagina 11 din LOGIQ Fortis posibilitate de ubgradare da R3.x HDU product specification sheet TVI Posibilitate pentru afișaj color de înaltă definiție da Posibilitate pentru afișaj color de înaltă definiție DA pagina 9 din LOGIQ Fortis R3.x HDU product specification sheet Radiantflow Persistenta si senzitivitate ajustabile da Persistenta si senzitivitate ajustabile DA pentru fiecar tip de mod de lucru separta pagina 7-8 din LOGIQ Fortis R3.x HDU product specification sheet *Gain*, *Dynamic* Range, Acoustic power, Accumultion mode. Optimizare automata a scării si liniei de baza da Optimizare automata a scării si liniei de baza DA pagina 9 din LOGIQ Fortis R3.x HDU product specification sheet Vizualizare in mod dual pentru imaginea in Modul B si cea Vizualizare in mod dual pentru imaginea in Modul B si cea Doppler da Doppler DA pagina 3 -4 din LOGIQ Fortis R3.x HDU product specification sheet Simulraneous capability B /PW, B/CW, B/CFM or PDI, V/M triplex B+CFM/PW. Posibilitate upgradare cu mod de lucru Panoramic da Posibilitate de lucru cu modul Panoramic DA este inclus in completatia standart *LOGIQView* din LOGIQ Fortis R3.x HDU product specification sheet Power Doppler da Power Doppler DA pagina 2 din LOGIQ Fortis R3.x HDU product specification sheet Duplex da Duplex DA pagina 3 -4 din LOGIQ Fortis R3.x HDU product specification sheet Simulraneous capability Triplex da Triplex da DA pagina 3 -4 din LOGIQ Fortis R3.x HDU product specification sheet Simulraneous capability **FUNCTIONALITĂTI INCLUSE FUNCTIONALITĂȚI INCLUSE** Măsurători digitale Măsurători digitale DA pagina 13 din LOGIQ Fortis R3.x **HDU** product specification sheet Diapazon dinamic selectabil DA pagina 7 din LOGIQ Diapazon dinamic selectabil da Fortis R3.x HDU product specification sheet *Adjustable* dynamic range, inifnite upper level sau pentru fiecare mod este idnicat Dynamic range Focalizare de transmisie ajustabilă DA pagina 7 din Focalizare de transmisie ajustabilă da LOGIQ Fortis R3.x HDU product specification sheet Continuous dynamic receive focus Focalizare de recepție dinamică da Focalizare de recepție dinamică DA pagina 7 din LOGIQ Fortis R3.x HDU product specification sheet *Continuous* dynamic receive aperture Butoane STC disponibile pentru ajustarea gain-ului minim Butoane STC disponibile pentru ajustarea gain-ului minim 8 orizontale valabile pe touch monitor da 8 orizontale valabile pe touch monitor DA pagina 4 din

Măsurători pe reluarea vide da

Măsurători posibile (lungime, suprafața, volum, hip-angle etc) da

Tehnologie de lucru in regim non doppler pentru studiu circulație sangvină indiferent de vitezele de curgere care sânt prezente (Exemplu B-Flow) da

Tehnologie de mărire a imaginei fără a pierde din calitatea sau rezoluția imaginei. (Exemplu HD Zoom) da

Inversare Stânga/Dreapta trebuie sa fie posibila da

Mod măsurare automat a grosimii vasului sangvin (IMT) da

Bucla Cine disponibila da

Afișare duala a imaginilor din memoria CINE este posibila

Cel putin 3 frecvente in mod THI da

Cel puţin 3 frecvente in regim diferenţial THI da

Tehnologia "Compound scanning" sau analogic da

Control unghiului de scanare Minim pentru sonda convexa da

Sistemul trebuie sa permită vizualizarea micro vasculară cu flux redus da

Sistemul trebuie sa dispună de aplicație pentru vizualizare avansată a micro calcinatelor da

LOGIQ Fortis R3.x HDU product specification sheet Digital TCG with 8 independent control.

Măsurători pe reluarea vide DA pagina 6 din LOGIQ Fortis R3.x HDU product specification sheet *Cine Memory/Image Memory*

Măsurători posibile (lungime, suprafața, volum, hip-angle etc) DA pagina 13 din LOGIQ Fortis R3.x HDU product specification sheet *Measurements / Calculations*

Tehnologie de lucru in regim non doppler pentru studiu circulație sangvină indiferent de vitezele de curgere care sânt prezente (Exemplu B-Flow) DA B-Flow pagina 3 din LOGIQ Fortis R3.x HDU product specification sheet Tehnologie de mărire a imaginei fără a pierde din

calitatea sau rezoluția imaginei. (Exemplu HD Zoom) DA pagina 12 din LOGIQ Fortis R3.x HDU product specification sheet HD Zoom.

Inversare Stånga/Dreapta trebuie sa fie posibila DA pagina 7 din LOGIQ Fortis R3.x HDU product specification sheet Scaning Parameteres > Image reerse : right/left.

Mod măsurare automat a grosimii vasului sangvin (IMT)

DA pagina 15 LOGIQ Fortis R3.x HDU product
specification sheet Vascular measurements/calculations
> Auto IMT.

Bucla Cine disponibila DA pagina 6 din LOGIQ Fortis R3.x HDU product specification sheet CINE Memory / Image Memory

Afișare duala a imaginilor din memoria CINE este posibila DA DA pagina 6 din LOGIQ Fortis R3.x HDU product specification sheet CINE Memory / Image Memory Cel puțin 3 frecvente in mod THI/ Harmonic DA în dependență de sonda acest prametru poate devia pagina 16 din DA pagina 6 din LOGIQ Fortis R3.x HDU product specification sheet *Probe*

Cel puțin 3 frecvente in regim diferențial THI /Harmonic DA în dependență de sonda acest prametru poate devia pagina 16 din DA pagina 6 din LOGIQ Fortis R3.x HDU product specification sheet *Probe*

Tehnologia "Compound scanning" sau analogic DA pagina 2 din LOGIQ Fortis R3.x HDU product specification sheet *SRI* si Advance *SRI*.

Control unghiului de scanare Minim pentru sonda convexa DA pagina 7 din LOGIQ Fortis R3.x HDU product specification sheet Scanning size (FOV or Angle)
Sistemul trebuie sa permită vizualizarea micro vasculară cu flux redus DA pagina 9 din LOGIQ Fortis R3.x HDU product specification sheet Radialflow, MVI.

Sistemul trebuie sa dispună de aplicație pentru vizualizare avansată a micro calcinatelor DA este inclus in stadart find combintie intro sonda matricial ML6-15-D de fregventa inalta si rezolutia inlata a ecografului care

2D Speckle tracking-monitorizarea miscarii peretelui cardiac optiune cu posibilitatea ulterioara de dotare da

Tehnologie pentru crea unui câmp de scanare trapezoidal pentru sonda liniara, sau convex deplin pentru sonda cardio (Exemplu Virtual Convex) da

FUNCTIE RAPORTARE da

Posibilitate editare raport final de către utilizator da

Posibilitate printare rapoarte da

Posibilitate export rapoarte in format PDF da

FUNCȚIONALITĂȚI OPTIONALE CE POT FI PROCURATE SEPART DE BENIFICIAR

Prezentarea tuturor posibilităților pentru tehnologia de 4D cu lista softurilor opționale, si măsurătorilor care pot fi realizate. Da

Prezenta tehnologie de postprocesare pentru Mod 4D, cu posibilitate de crearea a imaginei de înaltă rezoluție control lumini, textura, taiere a elementelor care creează umbra. Da

Modificarea dimensiunii regiunii de interes in interiorul căreia se măsoară rigiditatea da

Mod de lucru Stress Echo opțiune cu posibilitate de ubgradare da

Funcție de confirmare pentru play-back automat da

Funcție de afișare imagini de referință da

creaza o vizulizare a micro cacificatelor, micro vascularizarilor.

2D Speckle tracking-monitorizarea miscarii peretelui cardiac optiune cu posibilitatea ulterioara de dotare DA pagina 3 din LOGIQ din LOGIQ Fortis R3.x HDU product specification sheet *Cardiac Strain (Automatic functin Imaging)*

Tehnologie pentru crea unui câmp de scanare trapezoidal pentru sonda liniara, sau convex deplin pentru sonda cardio (Exemplu Virtual Convex) DA pagina 12 din LOGIQ din LOGIQ Fortis R3.x HDU product specification sheet Virtual Convex > Valabila pentur osndele Liniare si Sectoriale.

FUNCTIE RAPORTARE **DA** pagina **3** din LOGIQ Fortis R3.x HDU product specification sheet *On-board reporting* - *Editing a Report*

Posibilitate editare raport final de către utilizator DA pagina 1317/13-409 si 1320/13-415 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3 Report Writer Posibilitate printare rapoarte DA pagina 1317/13-409 si 1320/13-412 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3 Report Writer

Posibilitate export rapoarte in format PDF DA pagina 1317/13-409 si 1320/13-412 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3 Report Writer FUNCȚIONALITĂȚI OPTIONALE CE POT FI PROCURATE SEPART DE BENIFICIAR

Prezentarea tuturor posibilităților pentru tehnologia de 4D cu lista softurilor opționale, si măsurătorilor care pot fi realizate. DA *Omni View, STIC, TUI, VCI-Static, VOCAL II, HDLive* - softuri pagina 13 din LOGIQ Fortis Product Tree ENEA Rev.5 si pagina 10 din LOGIQ Fortis R3.x HDU product specification sheet.

Ca masuratori si formule de calcul este Omniview, dsitanta, volume ref. cu imagini clare Ref. Pagina 111 -116 din LOGIQ Fortis Presentation

Prezenta tehnologie de postprocesare pentru Mod 4D, cu posibilitate de crearea a imaginei de înaltă rezoluție control lumini, textura, taiere a elementelor care creează umbra. DA pagina 931/13-23 pin la 939/13-31 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3 Modificarea dimensiunii regiunii de interes in interiorul căreia se măsoară rigiditatea DA este o componentea standarta pentru regimul de Elastografie pag. 1023/13-115 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3

Mod de lucru Stress Echo opțiune cu posibilitate de ubgradare DA pagina 11 din LOGIQ Fortis R3.x HDU product specification sheet

Funcție de confirmare pentru play-back automat DA pagina 1153/13-245,1158/13-250 si 1464/13-556, din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3

Modul de lucru cu agenti de contrast, 12 fregvente pentru toate modurile disponibile da

Posibilitatea de upgrade cu modul pentru lucru cu agenți de contrast atât in mod B cat si mod Color da Funcție de ajustare pentru Frame Rate da

Postprocesare a imaginilor pe o stație de lucru de la producătorul echipamentului (Exemplu Echo pack) da

TRANSDUCTORI

"Sistemul are posibilitatea cuplarii unui transductor convex (active Single cristal/ Matricial/ XD clear s-au analogic) pentru aplicații generale ce accepta dispozitiv de biopsie" da

Sistemul are posibilitatea cuplării unui transductor linear (active Single cristal/ Matricial/ XD clear s-au analogic) cu aplicații in vizualizare părți mici si tesuturi moi da

Sistemul are posibilitatea cuplarii unui transductor linear matricial de inalta frecventa: minim 20 MHz da

Sistemul are posibilitatea cuplării unui transductor transesofagian da

Sistemul are posibilitatea cuplării unor transductori tip creion da

Transductori multifrecvenționali, minim 12 frecvente da

PAN/ZOOM imagine în timp real da

imagine înghețată da

Funcție de afișare imagini de referință DA pagina 932/13-24 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3

Modul de lucru cu agenti de contrast, 12 fregvente pentru toate modurile disponibile DA pagina 9 din LOGIQ Fortis R3.x HDU product specification sheet in dependenta de sonda care se va folosi numarul de fregeveta poate sa depaseasca

Posibilitatea de upgrade cu modul pentru lucru cu agenți de contrast atât in mod B cat si mod Color DA pagina 9 din LOGIQ Fortis R3.x HDU product specification sheet Funcție de ajustare pentru Frame Rate DA pagina 7 din LOGIQ Fortis R3.x HDU product specification sheet Postprocesare a imaginilor pe o stație de lucru de la producătorul echipamentului (Exemplu Echo pack) DA Centricity - https://apps.gehealthcare.com/app-products/centricity-universal-viewer

TRANSDUCTORI

"Sistemul are posibilitatea cuplarii unui transductor convex (active Single cristal/ Matricial/ XD clear s-au analogic) pentru aplicații generale ce accepta dispozitiv de biopsie" DA C1-6-D Xdclear, C2-9-D Xdclear, pag. 16-17 din LOGIQ Fortis R3.x HDU product specification sheet.

Sistemul are posibilitatea cuplării unui transductor linear (active Single cristal/ Matricial/ XDclear s-au analogic) cu aplicații in vizualizare părți mici si țesuturi moi DA L2-9-D, Xdclear, ML6-15-D, Matrix pagina 18, 19 din LOGIQ Fortis R3.x HDU product specification sheet.

Sistemul are posibilitatea cuplarii unui transductor linear matricial de inalta frecventa: minim 20 MHz DA L6-24-D pagina 18 din LOGIQ Fortis R3.x HDU product specification sheet.

Sistemul are posibilitatea cuplării unui transductor transesofagian DA IC5-9-D si RIC5-9-D pagina 17, 19 din LOGIQ Fortis R3.x HDU product specification sheet. Sistemul are posibilitatea cuplării unor transductori tip creion DA P2D si P6D pagina 19 din LOGIQ Fortis R3.x HDU product specification sheet

Transductori multifrecvenționali, minim 12 frecvente DA Exemplu ML6-15-D pagina 19 din LOGIQ Fortis R3.x HDU product specification sheet

B-Mode 7.0, 9.0, 10.0, 11.0, 12.0, 15.0 MHz - 6 Harmonic - 10.0, 12.0, 14.0, 15.0 MHz - 4

PW - 5.0, 6.3, 8.3 MHz - 3

Color - 5.1, 6.1, 7.3, 8.2, 9.2, 10.3, 11.4, 12.4 MHz - 8 Total 21 de fregevente

PAN/ZOOM

imagine în timp real DA pagina 12 din LOGIQ Fortis R3.x HDU product specification sheet imagine înghețată DA pagina 12 din LOGIQ Fortis R3.x HDU product specification sheet

imagine salvata da

STOCARE IMAGINI

Capacitate hard disc, tip SSD ≥ 500Gb

Cine memorie ≥ 950 Mb

după timpul de scanare da

control timpului maxim de salvare da

Sistemul trebuie sa dispuna de sistem de achizitie a datelor in format uzual pentru ori si care calculator (AVI, JPG, RAW, PNG pentru o prelucrare ulterioara a imaginilor da

Stocarea pe DVD sa poată fi realizata in următoarele formate: DICOM, JPG, BMP, AVI, optiune de ubgradare ulterioar da

DICOM 3.0 da

MONITOR FIZIOLOGIC ECG Cablu ECG inclus adult Opțional cu posibilitate de ubgradare da

PACHETE DE ANALIZĂ OB/GYN da

Vascular da

Abdomen da

General da

Musculoscheletal da

Transcranial da

Parți moi da

Altele Să se indice

MONITOR VIZUALIZARE, pliabil Diagonala ≥ 23 inch

Rezoluţia minim 1920x1080px, (FULL HD

imagine salvata DA pagina 12 din LOGIQ Fortis R3.x HDU product specification sheet recall- rechemare din imaginiea salvata a unui pacient.

STOCARE IMAGINI

Capacitate hard disc, tip SSD 1 TB - pagina 1 din LOGIQ
Fortis R3.x HDU product specification sheet
Cine memorie - 1Gb - 1000 Mb - pagina 6 din LOGIQ
Fortis R3.x HDU product specification sheet
după timpul de scanare DA dupa cine loop care se
controleaza ca timp pagina 6 din LOGIQ Fortis R3.x HDU
product specification sheet

control timpului maxim de salvare DA pagina 293/6-7 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3

Sistemul trebuie sa dispuna de sistem de achizitie a datelor in format uzual pentru ori si care calculator (AVI, JPEG, RAW, PNG) pentru o prelucrare ulterioara a imaginilor DA pagina 6 din LOGIQ Fortis R3.x HDU product specification sheet pagina 296/6-10, 595/9-41 1192/13-284 si 1193/13-285 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3

Stocarea pe DVD sa poată fi realizata in următoarele formate: DICOM, JPEG, BMP, AVI, este inclus in standart DA pagina 1 din LOGIQ Fortis R3.x HDU product specification sheet formtele de inscrierea sint aceleasi. DICOM 3.0 DA pagina 6 din LOGIQ Fortis R3.x HDU product specification sheet

MONITOR FIZIOLOGIC ECG Cablu ECG inclus adult Optional cu posibilitate de ubgradare DA ECG Option pagina 15 din LOGIQ FORTIS Product tree EMEA rev.5 PACHETE DE ANALIZĂ

OB/GYN DA Obstetrical pagina 1 din LOGIQ Fortis R3.x HDU product specification sheet

Vascular DA pagina 2 din LOGIQ Fortis R3.x HDU product specification sheet

Abdomen DA pagina 1 din LOGIQ Fortis R3.x HDU product specification sheet

General DA este carcterisit ca tip de masurare find un pachet de analiza

Musculoscheletal DA pagina 2 din LOGIQ Fortis R3.x HDU product specification sheet

Transcranial DA TCD inclus in vascular pagina 2, 15 din LOGIQ Fortis R3.x HDU product specification sheet Parți moi DA Tiroida, Sin, pagina 2 din LOGIQ Fortis R3.x HDU product specification sheet

Altele Să se indice

MONITOR VIZUALIZARE, pliabil Diagonala 23.8 inch pagina 1 din LOGIQ Fortis R3.x HDU product specification sheet

Rezoluția minim 1920x1080px, (FULL HD) **DA pagina 1** din LOGIQ Fortis R3.x HDU product specification sheet

Pe brațe articulat da

Posibilitate de blocare a brațului articulat al monitorului da

DIVIZARE MONITOR da

MONITOR DE CONTROL, touch-screen Diagonala minim 10 inch

PLATFORAM DE CONTROL Mișcările stânga si dreapta sus si in jos, motorizat da

Unitatea este echipata cu suport pentru cablurile transductorilor da

Unitatea trebuie sa dispună de sistem de încălzire pentru gel da

Unitatea trebuie sa aibă posibilitatea de conectare a unui monitor extern da

Unitatea este echipata cu conector pentru sonda creion da

Alimentarea 220/230 V - 50/60 Hz da

"UPS integrat sau separat destinat pentru menţinerea funcţionarii dispozitivului in caz

de stingere a luminii accidental" da, min. 20 min. Da

Imprimanta alb/negru - 1 bucata da

Ieşirile sistemului:

Conector USB pentru salvarea imaginilor direct pe stick de memorie sau HDD extern — minim 4 porturi USB da leșire video S-VHS sau DVI-D sau alta ieșire video pentru redarea semnalului video la maxim da

Ethernet 100BaseTX da

Ecograful sa fie pe roti cu posibilitate de blocare a frânelor pentru fiecare roata separata da

Echipamentul trebuie sa îndeplinească toate condițiile legale pentru punerea pe piață – se vor prezenta următoarele documente:

- Certificate de calitate ISO 9001
- Certificate de calitate ISO 13485
- CE, Declarație de conformitate

Toate certificatele si autorizațiile trebuie sa fie in termen de valabilitate." da

Perioadă de garanție: minim 24 luni de la punerea în funcțiune pentru echipament si sonde.

Pe brațe articulat **DA pagina 1 din LOGIQ Fortis R3.x HDU product specification sheet**

Posibilitate de blocare a braţului articulat al monitorului DA in regim de transport pagina 161/3-63 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3 DIVIZARE MONITOR DA

MONITOR DE CONTROL, touch-screen Diagonala minim 12.1 inch DA din LOGIQ Fortis R3.x HDU product specification sheet

PLATFORAM DE CONTROL Mișcările stânga si dreapta sus si in jos, motorizat DA pagina 150/3-52 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3

Unitatea este echipata cu suport pentru cablurile transductorilor **DA**

Unitatea trebuie sa dispună de sistem de încălzire pentru gel DA pagina 1 din LOGIQ Fortis R3.x HDU product specification sheet

Unitatea trebuie sa aibă posibilitatea de conectare a unui monitor extern DA HDMI pagina 3 din LOGIQ Fortis R3.x HDU product specification sheet

Unitatea este echipata cu conector pentru sonda creion

Alimentarea 220/230 V - 50/60 Hz **DA pagina 1 din LOGIQ Fortis R3.x HDU product specification sheet**

"UPS integrat sau separat destinat pentru menținerea funcționarii dispozitivului in caz de stingere a luminii accidental" da, min. 20 min. DA Separata Model APC Easy UPS SMV3000CAI 3000VA/2100W

Imprimanta alb/negru - 1 bucata DA tip termo-printer integrat

Iesirile sistemului:

Conector USB pentru salvarea imaginilor direct pe stick de memorie sau HDD extern – minim 4 porturi USB **DA** leșire video S-VHS sau DVI-D sau alta ieșire video pentru redarea semnalului video la maxim **DA HDMI pagina 3 din LOGIQ Fortis R3.x HDU product specification sheet** Ethernet 100BaseTX **DA**

Ecograful sa fie pe roti cu posibilitate de blocare a frânelor pentru fiecare roata separata DA pagina 182/3-84 din LOGIQ Fortis – Basic User Manual 5855997-1EN Rev. 3

Echipamentul trebuie sa îndeplinească toate condițiile legale pentru punerea pe piață – se vor prezenta următoarele documente:

- Certificate de calitate ISO 9001 DA
- Certificate de calitate ISO 13485 DA
- CE, Declarație de conformitate DA

Toate certificatele si autorizațiile trebuie sa fie in termen de valabilitate." **Da**

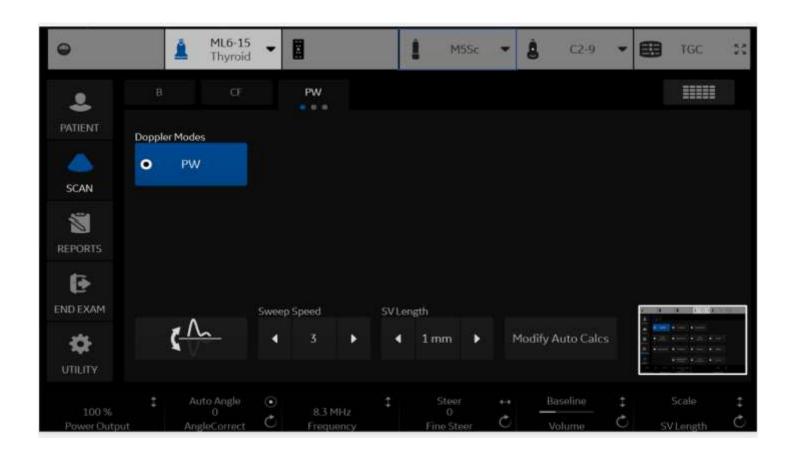
Perioadă de garanție: minim 24 luni de la punerea în funcțiune pentru echipament si sonde. **DA**

Anexa 1

Se va anexa o declarație în acest sens." da Instruirea personalului operator se efectuează la beneficiar, în locația de livrare min. 2 persoane "Producătorul trebuie să furnizeze piese de schimb, cel puțin 10 ani de la data livrării.

Se va anexa o declarație în acest sens." da

Se va anexa o declarație în acest sens." **DA**Instruirea personalului operator se efectuează la
beneficiar, în locația de livrare min. 2 persoane **DA**"Producătorul trebuie să furnizeze piese de schimb, cel
puțin 10 ani de la data livrării. Se va anexa o declarație în
acest sens." **DA**





cSound Architecture

Ultrasound for today, platform for tomorrow

The breadth of clinical scenarios in general imaging ultrasound places significant demands on the ultrasound device. A patient who cannot hold her breath while a renal Doppler is performed. A patient whose tendon tear requires sub millimeter resolution. An obese patient needing a liver biopsy. A brain scan of a neonate in an incubator. A liver fibrosis assessment that depends on detecting a shear wave signal thinner than a human hair. In today's demanding clinical environment, the ultrasound machine is a partner in helping the clinician meet every challenge.

GE Healthcare has designed its advanced cSound™ Architecture to put the latest ultrasound technology in the hands of clinicians. It combines the power of XDclear™ probes with a new cSound Imageformer to enable confident diagnoses, provide comprehensive tools, and support concise workflow.

cSound Imageformer

The cSound Imageformer is the data acquisition and processing engine of the new architecture. At its core are cutting-edge NVIDIA® GPUs, the same graphics processing technology that is advancing the driverless car industry and the next generation of video gaming. This technology gives GE ultrasound engineers access to 48 times the data throughput and 10 times the processing power of our previous systems. This opens up new opportunities, allowing the cSound Imageformer to collect and use more data to create every ultrasound image.



Traditional Beamforming

To understand cSound Imageforming, it helps to review how traditional beamforming works. As shown in Figure 1, traditional beamforming is performed in customized hardware and only the resulting beam or vector data is provided to the flexible, software-based processor that creates the ultrasound images.

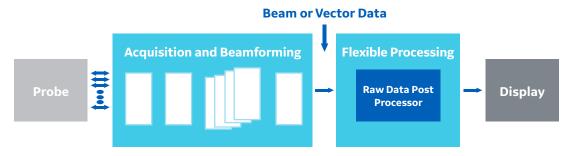
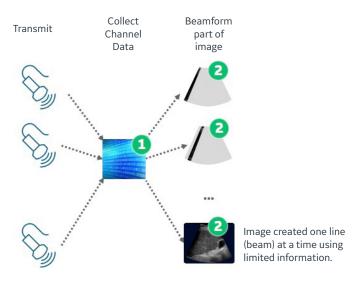


Figure 1. A traditional beamforming architecture.

Traditional Beamforming Steps

- **1.** A transmit event is performed. The return ultrasound data is dynamically received and collected in a single instance of channel memory.
- **2.** The collected channel data is processed to create a particular portion of the image often referred to as one or more vectors or beams.
 - Note: If multiple focal depths are desired, steps 1 and 2 are also repeated with a transmit event focused at a different depth.
- **3.** Steps 1-2 are repeated for another portion of the image until the entire image has been created.

Traditional Beamformer



The channel data processed in step 2 and then overwritten still has useful information. However, a traditional beamformer has no means to extract this additional value before the channel data associated with the next transmit event overwrites it.

cSound Imageforming - Methodology

As shown in Figure 2, cSound Imageforming is performed using flexible, GPU-based processing. In contrast to traditional beamforming, the cSound Architecture moves raw channel data at high speeds from the acquisition system to components that perform flexible, software-based processing, including the cSound Imageformer. This channel data can be retained in memory even as channel data from subsequent transmit events is acquired and transferred to the cSound Imageformer.

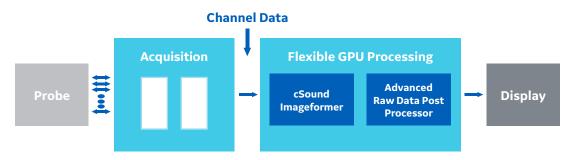
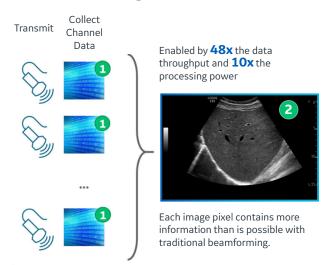


Figure 2. cSound Architecture.

cSound Imageforming Phases

- **1.** Acquisition A series of transmit events are performed with the return ultrasound data being dynamically received and transferred to memory.
- **2.** Reconstruction The channel data from all of the transmits is combined to form the image.

New cSound Imageformer



Similar to CT and MRI, cSound Imageforming has a distinct acquisition phase followed by a reconstruction phase. This requires the cSound Architecture to acquire, move and store large amounts of channel data and, once collected, the cSound Imagefomer must be able to process the data at high speeds to enable real-time image reconstruction. The image formation process leverages channel data that would have been discarded in traditional beamforming. This additional data provides numerous samples for every point in the image. The image formation process combines these samples to achieve transmit focus for each point in the image, enhance contrast resolution and deliver fine spatial resolution.

cSound Imageformer - Retrospective Transmit Focus

In traditional beamforming, each transmit event has a transmit focus that is created by adjusting the time delays of individual transducer elements. This generates a curved wave front that converges until reaching a particular depth (the focus depth) and then diverges as it continues to propagate beyond the focus depth. The focus is the location that is insonified from multiple directions.

For each transmit event, the cSound Imageformer collects and saves the receive ultrasound data for each element. This is referred to as channel data. Even when a new transmit event occurs, the channel data associated with previous transmit events is retained and not overwritten.

Individual transmit events are spatially and/or angularly offset from one another creating significant overlap. As a result, for any point in the image, there are multiple transmit events that have insonified the point, each from a different direction. Knowing the spatial locations of a particular point in the image relative to a given transmit event, the cSound Imageformer can retrospectively process the channel data of each intersecting transmit event, and then coherently

combine the results to achieve retrospective transmit focus at that point. It is worth noting that noise associated with each transmit beam is independent and therefore sums incoherently while the signal itself sums coherently. This increases the signal-to-noise ratio, further improving contrast resolution throughout the image.

This approach to focusing at each point in an image is possible for all types of transmit events providing there is overlap.

- **Converging waves** Sound from multiple elements converges at a finite depth relative to the transducer face
- **Plane waves** Sound from multiple elements is unfocused or essentially focused at an infinite depth
- **Diverging waves** Sound from multiple elements diverges as if the focus was behind the transducer face

The cSound Imageformer is capable of all types of transmit events, giving engineers the flexibility to optimize the system uniquely depending on the needs of each clinical application.

cSound Imageformer - Retrospective Transmit Focus, an Example

For illustrative purposes consider a simplified scenario, as shown in Figure 3.

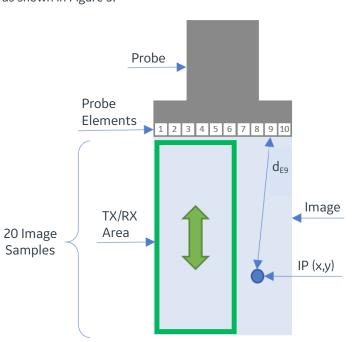


Figure 3. A simplified imaging scenario for illustrating retrospective transmit focus.

- Linear transducer with just 10 elements (E1 E10)
- Each transmit event uses just six elements for transmitting and receiving. In this case, the first transmit event uses elements 1 through 6 (1-6) and then subsequent transmit events shift by a single element to use elements 2-7, 3-8, 4-9, and 5-10 for a total of 5 transmit events to create the image
- · All transmit events are unfocused
- The receive signal is sampled so that 20 samples cover the depth of the image
- Each point in the image can be represented by IP (x,y) where
 x is the lateral direction and is restricted to the width of the
 image (which equals the width of the probe) and y is the axial
 direction and is restricted to the depth of the image
- The distance between IP (x,y) and a particular probe element is defined as $d_{\rm FN}$ where N is the element number 1-10

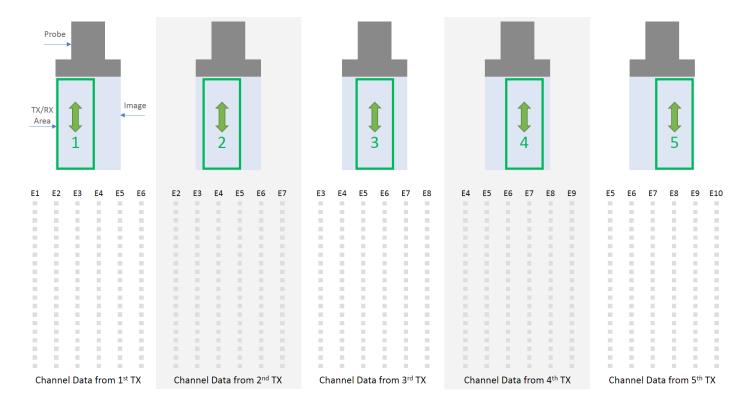


Figure 4. The first transmit (1) occurs and channel data is collected and stored. This is repeated for subsequent transmits (2 through 5) which are each offset from the previous.

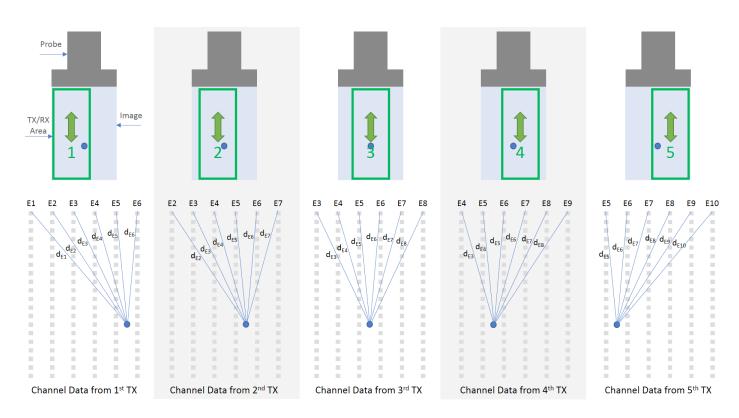


Figure 5. For each set of relevant channel data, the distance between the deep image point (represented by the circle) and each probe element is computed.

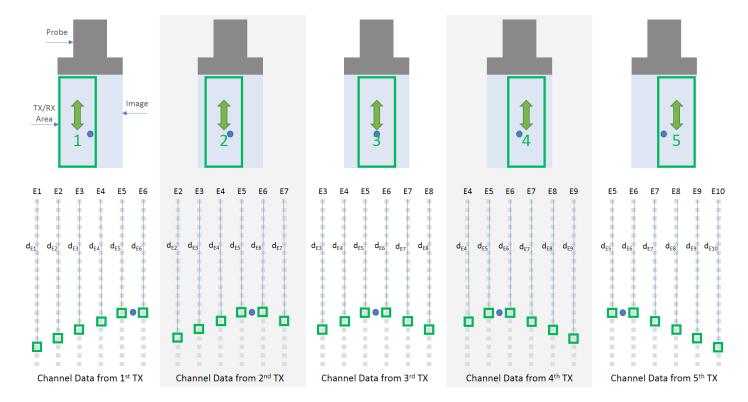


Figure 6. The computed distances between the image point and each element are used to access the channel data that focuses on the image point. The selected channel data from each transmit is coherently summed to determine the signal associated with the image point.

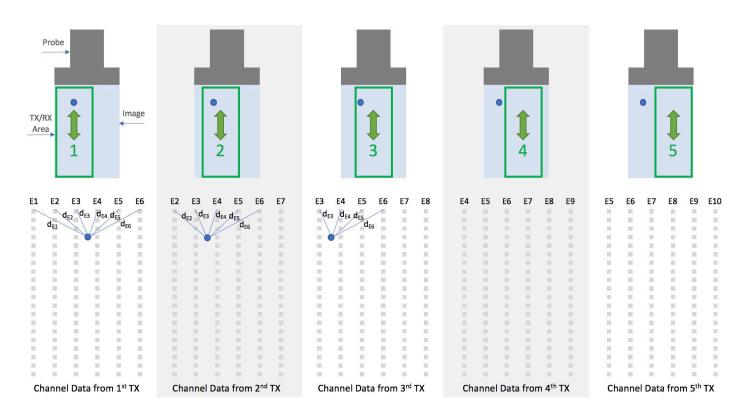


Figure 7. For each set of relevant channel data, the distance between the shallow image point (represented by the circle) and each probe element is computed. Note that transmits 4 and 5 do not overlap with the image point. Further note that some elements, such as E7 and E8 on transmit 3, are not included because of their steep angle relative to the image point.

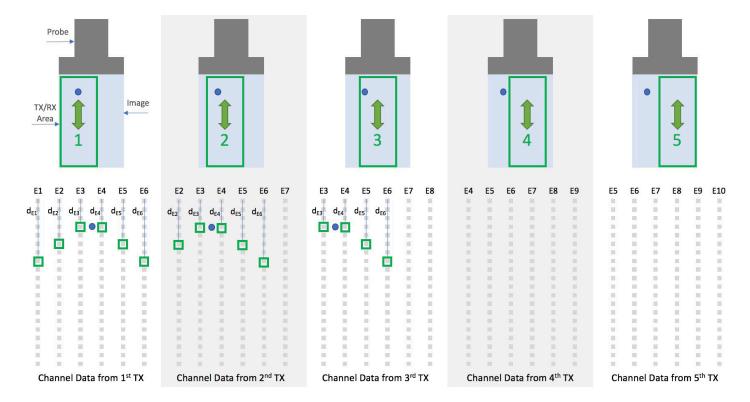


Figure 8. The computed distances between the image point and each element are used to access the channel data that focuses on the image point. The selected channel data from each transmit is coherently summed to determine the signal associated with the image point.

When extending this simplified scenario to the cSound Imageformer, there are additional complexities to consider. For example, the geometry of the transducer and the delay profile of the transmit event impact the computation of the image point to probe element distance and therefore the offset needed to reference the correct channel data. In another difference, the received elements are often larger than the number of transmit elements. Most notably, the sheer volume of data puts extensive demands on the system:

- The large quantity of collected channel data must be reliably and quickly streamed to the channel data memory before additional channel data is collected from the next transmit
- A massive amount of channel memory is required to store the channel data collected from many transmit events
- The retrospective processing of each relevant set of channel data for each point in the image requires intensive, ultra-high-speed, parallel computations to be performed to achieve real-time imaging at very high frame and volume rates

In a less powerful system, the real-time nature of imageforming could be achieved by restricting the amount of data collected by each transmit; speed would come at the expense of image quality. The cSound Architecture, in contrast, is able to keep up without restricting the data, even in radiology's most challenging applications. To put the cSound Architecture's performance in context, it can move the equivalent of multiple DVDs worth of data in one second.

cSound Imageformer - Benefits

Imagine an ultrasound department where no image is acquired with the focal zone in the wrong position. With each point in the image in focus, the user doesn't need to select multiple focal zones or to move the focus position. Additionally, there are no trade-offs between near- and far-field image quality. Deep liver imaging provides detailed data from the capsule to the diaphragm. When biopsying a deep lesion, there is no compromise to needle visualization as it enters the image area. When surveying breast tissue, a clinician is able to see small lesions present from the skin line to the chest wall – all without the user having to make any adjustments.

While greater focal range in ultrasound has traditionally meant lower frame rates, cSound Imageforming actually increases frame rates. It requires a smaller collection of transmit events, a direct result of efficiently using the data collected from each individual transmit event. To understand this efficiency, consider that an ultrasound transmit event can be focused, but the sound energy still travels in many directions; it acts like a flashlight rather than a laser.

Though a flashlight generates maximum light energy in the center of its beam, there is still useful visual information in the light outside of the central beam. Similarly, there is much useful ultrasound image data in the sound that propagates outside the focused direction and the cSound Imageformer is designed to take full advantage of this data.

cSound Imageformer - A Platform for Growth

cSound Imageforming runs on high performance NVIDIA GPUs, but the imageforming algorithms are software based. This affords significant flexibility; the algorithms can be adjusted for specific applications and evolve over time without impacting the underlying hardware architecture. In addition to forming the image, current algorithms can incorporate Adaptive Contrast Enhancement (ACE) and other GE proprietary techniques to boost the real image signal and suppress artifact. And with advances in GPU technology, there is potential to incorporate newer GPUs into the platform, enabling even more sophisticated algorithms.

Advanced Raw Data Post Processor

The improved images resulting from the cSound Imageformer flow into the Advanced Raw Data Post Processor where additional enhancement is performed by spatial compounding, frame averaging, advanced speckle reduction imaging (Advanced SRI), and other functions. The post-processed image data is then mapped to gray scale levels and the scan is converted for display to the operator.

While speckle reduction imaging has been a feature of ultrasound systems for many years, Advanced SRI is GE's most sophisticated algorithm to date, and requires the expanded computational power of the cSound architecture to achieve real-time results. It employs proprietary processing steps at different resolutions of the raw image data to smooth speckle-based artifacts while simultaneously enhancing structures of all sizes within the image. The level of smoothing and enhancement is adjustable by the user.

The "Raw Data" aspect of the Advanced Raw Data Post Processor refers to the fact that image data is saved prior to the processing steps. This allows the user to continue to adjust the processing long after the images have been saved.

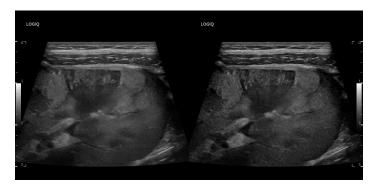
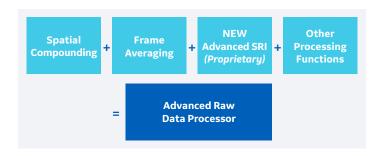


Figure 9. Advanced SRI (right) takes advantage of the increased computational power of the cSound Architecture to identify and enhance structures of all sizes while reducing speckle-based artifacts.



XDclear Probes

While cSound Imageforming provides numerous benefits over traditional beamforming, the quality of the acoustic data coming into the system is still of utmost importance. In combination with the cSound Architecture's state-of-the-art transmit and receive electronics, XDclear transducers help deliver a more powerful, pure, and efficient sound wave with wider bandwidth than traditional GE transducer technology. This results in impressive deep penetration and high resolution, enabling ultrasound to be used effectively on a broad range of patients.



Figure 10. XDclear probes: Derive their superior performance from three key technologies: Single Crystal, Cool Stack, and Acoustic Amplifier.

XDclear transducers are a proprietary combination of advanced materials and innovative design. The XDclear design incorporates an enhanced piezoelectric material, Single Crystal, to generate a high quality acoustic signal. The quality of that signal is preserved through an innovative Acoustic Amplifier design coupled with GE's Cool Stack technology to help optimize energy management. The ability to effectively and efficiently combine these technologies is what makes XDclear extraordinary.

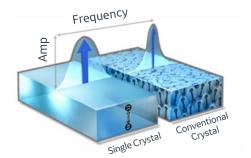


Figure 11. Single Crystal: Advanced piezoelectric material that delivers high quality acoustic signal with a wider bandwidth than conventional piezoelectric material.

GE Acoustic Amplifier Evolution

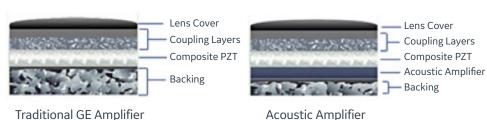


Figure 12. Acoustic Amplifier: Preserves the acoustic signal through an innovative design that captures and redirects the unused energy that passes through the crystal to enhance sensitivity, axial resolution, and penetration.

XDclear transducers enable deep penetration and resolution. One objective measure of transducer performance is bandwidth: the range of frequencies that the transducer can transmit and receive. Increased bandwidth allows a transducer to cover a broader frequency range, which makes it possible to achieve deep penetration and high resolution, as well as enhanced performance in harmonic imaging.

With sufficient bandwidth, one transducer can cover the range of acoustic frequencies that previously required separate transducers. XDclear transducers with Single Crystal materials have measurably enhanced bandwidth, achieving a -6 dB fractional bandwidth that can exceed 100 percent compared with 70 to 80 percent for traditional GE transducers. The result is a new level of penetration, resolution, and sensitivity in GE transducer performance.

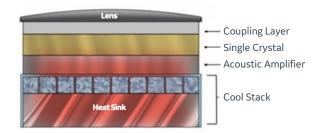


Figure 13. Cool Stack: Optimizes energy usage via patented technology integrated into the transducer's internal architecture; it relieves inherent heat generation that can otherwise reduce sensitivity and penetration.

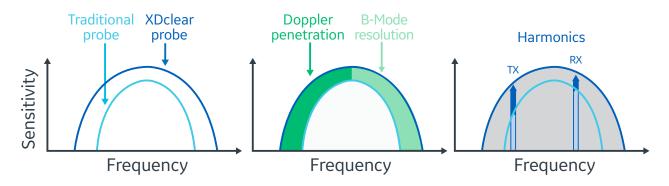


Figure 14. XDclear probe performance benefits are derived from improved sensitivity and wider bandwidth.

cSound Architecture Summary

The cSound Architecture leverages next-generation data rates and processing power that were previously unavailable, allowing significantly more data to be collected and used to create every image. This additional data is used to achieve focus at every point and to increase contrast and spatial resolution all while significantly improving frame rates. Combined with the performance advantages of XDclear probes and the Advanced Raw Data Post Processor, these advancements make the cSound Architecture an excellent imaging system for today and its flexible design makes it a powerful imaging platform for tomorrow.



*As compared to the LOGIQ™ E9.



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EC DECLARATION OF CONFORMITY

Following the provisions of the medical devices regulation 2017/745 Following the directive 2011/65/EU, directive 2014/53/EU

We

Manufacturer and manufacturing siteEU Authorized RepresentativeGE Ultrasound Korea, Ltd.GE Medical Systems SCS9, Sunhwan-ro 214beon-gil,283 rue de la MinièreJungwon-gu, Seongnam-si78530 BUC, FranceGyeonggi-do 13204, Republic of KoreaSRN: FR-AR-000000344

SRN: KR-MF-000001860

Declare under our sole responsibility that the device:

LOGIQ Fortis

Basic UDI-DI: 8406821BUG00214GZ

Identification number:

REF Catalog	H-Catalog Number	UDI-DI
LOGIQ Fortis HDU	H43302LA	00195278405326
LOGIQ Fortis LCD	H43302LB	00195278405333

Intended Purpose: The LOGIQ Fortis is a general-purpose diagnostic ultrasound system intended for use by qualified and trained healthcare professionals for ultrasound imaging, measurement, display and analysis of the human body and fluid.

EMDN Code: **Z110401**

EMDN Description: Ultrasound Scanners

GMDN Code: 40761

GMDN Description: General-purpose ultrasound imaging system

UMDNS Code: 15-976

Classification: Ila

Classification rule (Annex VIII): Rule 10, Class: IIa

To which this declaration relates is in conformity with the requirements of the medical devices regulation 2017/745 that apply to it and with the requirements of the directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) and the directive 2014/53/EU on the radio equipment (RED).

Page 1 of 6 Document number: DOC2565892



This conformity is based on the following elements:

- Technical Documentation reference: DOC2379389, of the product to which this declaration relates.
- EC certificate No. HZ 2004702-01:
 - Conformity assessment procedure followed: Annex IX of the medical device regulation 2017/745
 - Delivered by TUV Rheinland LGA Products GmbH (Notified Body n° 0197)

This EC declaration of conformity is the initial release.

SIGNATURE:

Date of issue:

13-12-2021

Place of issue:

China

Name:

Qingmeng Chen

Function:

Regulatory Affairs Program Manager

Dingmeng Chen

Signature:

Page 2 of 6

Document number: DOC2565892



ADDENDUM TO THE EC DECLARATION OF CONFORMITY LOGIQ Fortis including accessories and components dated 13-12-2021

Product Description	H-Catalog Number ¹	
Ultrasound Cor		
LOGIQ Fortis HDU Console	H43302LA / 6602000	
LOGIQ Fortis LCD Console	H43302LB / 6601000	
Probe Option	, , , , , , , , , , , , , , , , , , ,	
IC5-9-D	H40442LK	
ML6-15-D	H40452LG	
L8-18i-D	H40452LL	
C2-9-D (XDClear)	H40462LN	
C1-6-D (XDClear)	H40472LT	
C1-6VN-D (XDClear)	H40472LW	
C2-9VN-D (XDClear)	H40472LY	
C3-10-D (XDClear)	H40482LB	
M5Sc-D (XDClear)	H44901AE	
L2-9-D	H44901AI	
L2-9VN-D	H44901AJ	
6Tc-RS	H45551ZE	
C2-7-D	H46422LM	
C2-7VN-D	H46422LN	
P2D	H4830JE	
RIC5-9-D	H48651MS	
RAB6-D	H48681MG	
P6D	H4830JG	
BE9CS-D	H40482LE	
L3-12-D	H48062AA	
6S-D	H45021RR	
L6-24-D Probe	H4920HF	
TEE Probe Access	sories ²	
TEE RS-DLP Adapter	H46352LK	
Adult TEE Clip-on Bite Guard	H45511EE	
Adult TEE Clip-on Bite Guard Opr.	H45521CB	
Adult TEE Scanhead Protection Cover	H45521CK	
Adult TEE Conventional Bite Guard	H45521JH	
BITE HOLE INDICATOR	H45531HS	
TEE STORAGE RACK	H45551NM	
Software Options		
Advanced Security	H46622LL	
Coded Contrast	H43332LA	
Parametric Imaging	H43332LB	
Cardiac AFI	H46622LN	
LOGIQ Exx DVR	H4918DR	
Report Writer	H46622LR	
Stress Echo	H46622LS	
Tricefy	H46622LT	
LOGIQ Apps	H46622LW	
KOIOS SW	H46622LY	
LOGIQ Exx KOIOS Thyroid	H4920KT	
LOGIQ E10 KOIOS INSTALL	H4919KI	

Page 3 of 6 Document number: DOC2565892



Product Description	H-Catalog Number ¹
KOIOS 3.x INSTALL	H4921KY
Scan Assistant	H46622LZ
Advanced Probes	H46612LS
AUTO IMT	H46612LT
B Steer+	H46612LW
B-FLOW	H46612LY
Compare Assistant	H46612LZ
DICOM	H46622LA
FLOW QA	H46622LB
Measure Assist Breast	H46622LC
Measure Assist OB	H46622LD
Elastography	H43332LC
Elasto QA	H43332LD
Shear Wave Elastgraphy	H46622LE
LOGIQ Exx SRI HD Type2	H4920SR
UGAP	H46622LH
SonoNT SonoIT	H46622LJ
LOGIQ Exx VNAV Image	H4920VR
Hepatic Assistant - SWE-UGAP	H43332LE
Omni View	H43332LF
STIC	H43332LG
TUI	H43332LH
VCI-Static	H43332LJ
VOCAL_II	H43332LK
Thyroid Productivity	H43332LL
Breast Productivity	H43332LM
Vita on Demand	H43332LN
Hardware Op	tions ²
CW Doppler	H43342LA
Realtime 4D	H43342LB
ECG Option	H43342LC
Scan on battery option kit	H43342LD
Power Assistant	H43342LE
Volume Navigation	H43342LF
Volume Navigation for V-Nav Inside T1	H43372LK
Wireless Option	H43342LG
S-Video Option	H43342LH
Pencil CW	H43342LJ
Peripheral Op	tions ²
USB FOOTSWITCH 3 BUTTON	H46732LF
SONY UPD25MD COLOR PRINTR	H4911JT
BW Printer Installation Kit T1	H43342LK
LOGIQ Exx Protective Cover	H4918DC
LOGIQ Exx Inkjet Printer	H4918RP
LOGIQ Fortis High Cabinet	H43342LL
LOGIQ Fortis Low Cabinet	H43342LM
LOGIQ Fortis Side Cabinet	H43342LN
5inch bay Option	H43342LP
An Keyboard As	L
AN Keyboard ENGLISH	H43342LR
AN Keyboard GERMAN	H43342LS
AN Keyboard FRENCH	H43342LT
AN Keyboard GREEK	H43342LW
AN keyboard NORWEGIAN	H43342LY
'	



Product Description	H-Catalog Number ¹
AN Keyboard SWEDISH	H43352LA
Accessories ²	1143332LA
Ethernet protection Cable	H43272LJ
FC389,ECG CABLE SET	H45521AL
VNav Stand (Offboard)	H4908NS
ECG CABLE - AHA STYLE	
VNav NEEDLE TRACKING	H4910EC
	H4910NT
VNav VirtuTRAX Starter Kit	H4910NY
ECG Cables IEC Style VNav Virtual Tracker	H4911JC
	H4911NG
VNav Active Tracker kit	H4913AT
VNav Needle Tracking storage insert	H4913NS
VNav Needle Tracking Kit - 18/20g or less	H4913NT
VNav ETRAX 12 14G ST KT	H4913NU
VNav ETRAX 14 16G ST KT	H4913NV
VNav Probe sensors	H4913PS
VNav MR Active Tracker	H4915MT
Small Probe Holder	H43352LC
VERTICAL TV PROBE HOLDER	H43352LD
TVTR Probe Holder	H43352LE
PROBE CABLE HANGER	H44412LA
OPTION TRAY BOX	H43372LF
OPTION TRAY Bracket	H43372LG
Power Cords Destination	Sets
Power Cord 220V for EU	H46342LZ
Power Cord DK STD C13 GRY	H46692LK
DESTINATION SET UK	H46712LM
DESTINATION SET SWISS	H46712LS
DESTINATION SET DENMARK	H46712LT
DESTINATION SET ITALY	H46722LD
V-nav Options ²	
ML6-15 M_BPSY_TRU3D_SKIT	H40432LK
C3-10 VNav Holder Starter Kit	H40482LF
IC5-9 V NAV BRACKET	H4908NF
L8-18I V NAV BRACKET	H4908NH
M5S V NAV BRACKET	H4908NM
Biopsy Kits ²	
E721 STARTER KIT	E8385MJ
IC5-9-D Reusable Biopsy Guide	H40412LN
ML6-15 M_BIOPSY_SKIT	H40432LJ
C2-7 Biopsy Kit	H40482LK
C2-7 Biopsy Kit Stainless	H40482LL
L2-9 Needle Guide Starter Kit	H44901AM
M5Sc-D Biopsy Bracket	H45561FC
RAB BIOPSY STARTER KIT	H46701AE
RIC5-9-D Biopsy Guide	H46721R
C2-9 Biopsy Starter Kit	H4913BA
C1-6-D Verza Biopsy Starter Kit	H4917VB
C1-6-D Biopsy Starter Kit	H4913BB
L3-12-D Biopsy Kit	H48302AA
RAB6-D BIOPSY STARTER KIT	H48681ML
BE9CS Biopsy Kit 742-401	H42742LJ
' '	I.



Notes:

[1] H-Catalog number identifies the device(s) in the manufacturer's catalog and is usually included on commercial documents like sales contract, order processing documents and shipping documents.

[2] Probes and accessories may carry the CE-mark and when applicable, the Notified Body number corresponding to the EC Declaration under which the products are CE-marked by their manufacturer. GE Ultrasound Korea Ltd. has verified the mutual compatibility of the devices in combination with LOGIQ Fortis and included relevant information to users with the LOGIQ Fortis instructions for use.

End of Document

Page 6 of 6 Document number: DOC2565892



ATTESTATION / CERTIFICATE N° 7697 rev. 18

Délivrée à Parls le 14 septembre 2020 Issued in Paris on September 14th, 2020

ATTESTATION CE / EC CERTIFICATE

Approbation du Système Complet d'assurance Qualité/ Approval of full Quality Assurance System
ANNEXE II excluant le point 4 Directive 93/42/CEE relative aux dispositifs médicaux
ANNEX II excluding section 4 Directive 93/42/EEC concerning medical devices
Pour les dispositifs de classe III, un certificat CE de conception est requis
For class III devices, a EC design certificate is required

Fabricant / Manufacturer

GE ULTRASOUND KOREA, Ltd.

9, Sunhwan-ro 214beon-gil, Jungwon-gu, SEONGNAM-SI, GYEONGGI-DO, REPUBLIC OF KOREA

Catégorie du(des) dispositif(s) / Device(s) category

Dispositif ou système de diagnostic par ultrasons

Ultrasound diagnostic device or system

Voir document complémentaire GMED / See GMED additional document n° 36988

GMED atteste qu'à l'examen des résultats figurant dans le rapport référencé P183396, P601203, le système d'assurance qualité - pour la conception, la production et le contrôle final - des dispositifs médicaux énumérés ci-dessus est conforme aux exigences de l'annexe II excluant le point 4 de la Directive 93/42/CEE.

GMED certifies that, on the basis of the results contained in the file referenced P183396, P601203, the quality system - for design, manufacturing, and final inspection - of medical devices listed here above complies with the requirements of the Directive 93/42/EEC, annex II excluding section 4.

La validité du présent certificat est soumise à une vérification périodique ou imprévue The validity of the certificate is subject to periodic or unexpected verification

Début de validité / Effective date : September 14th, 2020 (included)

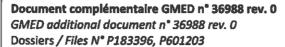
Valable jusqu'au / Expiry date : May 26th, 2024 (included)

Lionel DREUX
Certification Director

GMED - 7697 rev. 18 Modifie le certificat 7697-17

D_b2p3_new2020-V0

GMED • Société par Actions Simplifiée au capital de 300 000 € • Organisme Notifié/Notified Body n° 0459 Siège social : 1, rue Gaston Boissier - 75015 Paris • Tél. : 01 40 43 37 00 • gmed.fr



page 1 / 2

Délivré à Paris le 14/09/2020 Issued in Paris on 09/14/2020



Ce document complémentaire GMED n° 36988 rev. 0 atteste de la validité du certificat CE n° 7697 rev. 18 au regard des informations listées ci-dessous.

This GMED additional document N° 36988 rev. 0 attests to the validity of CE certificate n° 7697 rev. 18 with regard to the information listed below.

Fabricant / Manufacturer:

GE ULTRASOUND KOREA, Ltd. 9, Sunhwan-ro 214beon-gil, Jungwon-gu, SEONGNAM-SI, GYEONGGI-DO, REPUBLIC OF KOREA

Identification des dispositifs / Identification of devices

Désignation du dispositif / Accessoires marqués CE Device designation / CE marked accessories	Réf commerciale du dispositif ou code article Device commercial reference or article code	Classe du DM MD class
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	LOGIQ P7	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	LOGIQ P8	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	LOGIQ P9	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	LOGIQ P10	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	VOLUSON S6	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	VOLUSON S8	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	VOLUSON S8t	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	VOLUSON S10	lla

Lionel DREUX
Certification Director

GMED • Société par Actions Simplifiée au capital de 300 000 € • RCS Paris 839 022 522 • Organisme notifié n° 0459 Siège social : 1, rue Gaston Boissier - 75015 Paris • Tél. : 01 40 43 37 00 • gmed.fr 720 GMED 0901-4 rev 0 du 31/08/2020



Document complémentaire GMED n° 36988 rev. 0 GMED additional document n° 36988 rev. 0 Dossiers / Files N° P183396, P601203

page 2 / 2

Délivré à Paris le 14/09/2020 Issued in Paris on 09/14/2020

Désignation du dispositif / Accessoires marqués CE Device designation / CE marked accessories	Réf commerciale du dispositif ou code article Device commercial reference or article code	Classe du DM MD class
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	VOLUSON S10 Expert	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	VOLUSON P6	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	VOLUSON P8	lia
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	VOLUSON SWIFT	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	VOLUSON SWIFT+	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	LOGIQ S8	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	LOGIQ S7 Expert	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	LOGIQ S7 Pro	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	LOGIQ S7 XDclear2.0	lla
Dispositif ou système de diagnostic par ultrasons Ultrasound diagnostic device or system	LOGIQ E10s	lla

Site couvert et Activités / Locations and Activities

Site / Location	Activités / Activities
GE ULTRASOUND KOREA, Ltd.	
9, Sunhwan-ro 214beon-gil, Jungwon-gu,	Conception, fabrication et contrôle final
Seongnam-si, Gyeonggi-do, REPUBLIC OF KOREA	Design, manufacture and final control
équivalent à	
equivalent to	
GE ULTRASOUND KOREA, Ltd.	1
65-1, Sangdaewon-dong, Jungwon-gu,	
Seongnam-si, Gyeonggi-do - 462-120 REPUBLIC OF KOREA	

Certification Director

GMED - 36988 rev. 0

GMED • Société par Actions Simplifiée au capital de 300 000 € • RCS Paris 839 022 522 • Organisme notifié n° 0459 Siège social : 1, rue Gaston Boissier - 75015 Paris • Tél. : 01 40 43 37 00 • gmed.fr 720 GMED 0901-4 rev 0 du 31/08/2020



CERTIFICATEOF REGISTRATION

This is to certify that the management system of:

GE Healthcare Life Sciences

Main site: Amersham Place, Little Chalfont, HP7 9NA Buckinghamshire, United Kingdom

Additional sites according to appendix page 1-2

has been registered by Intertek as conforming to the requirements of

ISO 9001:2015

The management system is applicable to:

Sales, service and distribution of chemicals, devices and instruments for Life Sciences

Certificate Number: 45061-02

Initial Certification Date:

19 June 2009

Date of Certification Decision:

11 July 2018

Certificate Expiry Date:

18 June 2021

Certificate Extend Date:

18 March 2023



Accred. no. 1639 Certification of Management Systems ISO/IEC 17021-1



MD, Business Assurance Nordics

Intertek Certification AB P.O. Box 1103, SE-164 22 Kista, Sweden







APPENDIX

This appendix identifies the locations by the management system of

GE Healthcare Life Sciences

This appendix is linked to certificate # 45061-02 and cannot be shown nor reproduced without it

GE Healthcare Life Sciences 73/1, Brigade Metropolis, Whitefield Rd7th Floor,

Summit B, Garudachar Palya, Mahadevapura Post,

560048 Bangalore, Karnataka, India

GE Healthcare Life Sciences 3-25-1 Hyakunincho Shinjuku-ku, 169-0073 Tokyo, Japan

GE Healthcare Life Sciences No. 1568 Chunjiang East Road, 311500 Tonglu Zhejiang, China

GE Healthcare Life Sciences Björkgatan 30, 751 25 Uppsala, Sweden

GE Healthcare Life Sciences Hahnestraße 3, 37586 Dassel, Germany

GE Healthcare Life Sciences AB Björkgatan 30, 751 25 Uppsala, Sweden

GE Healthcare Life Sciences Mariehemsvägen 212, 906 52 Umeå, Sweden

GE Healthcare Life Sciences Presnenskaya Naberezhnaya, 10, tower C, 12 floor,

123317 Moscow, Russia

GE Healthcare Life Sciences KM Nishiumeda Building 7-20-1 Fukushim,

Fukushima KU, Fukushima, Japan

GE Healthcare Life Sciences 1 Maritime Square 13-01 Habour Front Center,

99253 Singapore, Singapore







APPENDIX

GE Healthcare Life Sciences 1605 Sammamish Rd 302,

98027 Issaquah, Washington, United States

GE Healthcare Kouterveldstraat 20, 1831 Machelen, Belgium

GE Healthcare Life Sciences Munzinger Str. 5, 79111 Freiburg im Breisgau, Germany

GE Healthcare Life Sciences De Rondom 8, 5612 Eindhoven, AP Netherlands

GE Healthcare Life Sciences Lindesnesveien 208, 4521 Lindesnes, Norway

GE Healthcare Life Sciences 24 Avenue de l'Europé, 78457 FR, Velizy-Villacoublay J, France

GEHC Life Sciences Cardiff The Maynard Centre, Forest Farm Estate,

CF14 7YT Whitchurch, Cardiff [Caerdydd GB-CRD],

United Kingdom

GE Healthcare Life Sciences 7F POBA Tower, 343 Hakdong-Ro Gangnam-gu,

135-820 Seoul, South Korea

GE Healthcare Life Sciences 8th Floor, Lee Garden One, 33 Hysan Avenue,

Causeway Bay, Hong Kong, China

GE Healthcare Life Sciences 11F, No. 68, Nanjing East Rd, Section 3, 104 Taipei, Taiwan

GE Healthcare Life Sciences 14 Walkup Dr Westborough,

1581 Westborough, Massachusetts, United States

GE Healthcare Life Sciences 100 Results Way, 1752 Marlborough, United States

GE Healthcare Life Sciences 925 West 1800 South, 84321 Logan, United States





(HyClone Laboratories, Inc.)







Product Service

Certificate

No. Q5 075707 0058 Rev. 02

Holder of Certificate: GE Healthcare Austria GmbH & Co OG

Tiefenbach 15 4871 Zipf AUSTRIA

Facility(ies): GE Healthcare Austria GmbH & Co OG

Tiefenbach 15, 4871 Zipf, AUSTRIA

Design and Development, Production and Distribution of Diagnostic Ultrasound Systems, Probes and Standalone Software

for Ultrasound-Image Processing

Certification Mark:



Scope of Certificate: Design and Development, Production

and Distribution of Diagnostic Ultrasound Systems, Probes and Standalone Software

for Ultrasound-Image Processing

Applied Standard(s): EN ISO 13485:2016

Medical devices - Quality management systems -

Requirements for regulatory purposes

(ISO 13485:2016) DIN EN ISO 13485:2016

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:Q5 075707 0058 Rev. 02

Report No.: 713202497

 Valid from:
 2021-11-20

 Valid until:
 2024-04-23

Christoph Dicks

Head of Certification/Notified Body

Date, 2021-11-11





Certificate of Approval

This is to certify that the Management System of:

GE HEALTHCARE EUROPE SALES AND SERVICES

283 rue de la Minière, 78530 BUC, France

has been approved by Lloyd's Register to the following standards:

ISO 14001:2015

Approval number(s): ISO 14001 - 0043295

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices.

Danif Oliv

Daniel Oliva Marcilio de Souza

Area Operations Manager - South Europe

Issued by: LRQA France SAS

for and on behalf of: Lloyd's Register Quality Assurance Limited



001

Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract. Issued by: LRQA France SAS, Tour Swiss Life, 1 Boulevard Marius Vivier Merle, Cedex 03, 69443 Lyon, France for and on behalf of: Lloyd's Register Quality Assurance Limited, 1 Trinity Park, Bickenhill Lane, Birmingham B37 7ES, United Kingdom



Location Activities

GE Medical Systems SCS

283 rue de la Minière, 78530 BUC, France

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices.

GEMS SCS

24 avenue de l'Europe, 78140 VELIZY VILLACOUBLAY, France

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare Austria GmbH & Co OG

Technologiestr. 10, 1220 WIEN, Austria

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare BVBA

Kouterveldstraat 20, Eagle Building, 1831 DIEGEM, Belgium

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare Bulgaria LTD

Dragan Tzankov Blvd. 36, World Trade Centre, 1040 SOFIA, Bulgaria

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Česká republika, s.r.o.

Bucharova 2641/14, Explora Business Centre, Jupiter Building, 158 00 PRAHA 5, Czech Republic

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



001



Location	Activities
GE Healthcare Danmark A/S Park Allé 295, 2605 BRONDBY, Denmark	ISO 14001:2015 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.
GE Healthcare Finland Oy Kuortaneenkatu 2, 00510 HELSINKI 18, Finland	ISO 14001:2015 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.
GE Medical Systems Information Technologies GmbH Munzingerstr. 3a-5, 79111 FREIBURG, Germany	ISO 14001:2015 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices.
GE Healthcare GmbH Beethovenstr. 239, 42655 SOLINGEN, Germany	ISO 14001:2015 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.
GE Healthcare S.A. 8-10 Sorou, Maroussi, 151 25 ATHENS, Greece	ISO 14001:2015 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.
GE Healthcare Magyarország Kft. Bence utca 3., 1138 BUDAPEST, Hungary	ISO 14001:2015 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.





Location Activities

GE Medical Systems Ireland Ltd

Unit F5, Centre Point Business Park, Oak Drive DUBLIN 12, Ireland

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Italia SpA

Via Galeno 36, 20126 MILAN, Italy

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

General Electric Kazakhstan LLP

308 of. "Grand-Alatau" Business Center, "Grand-Alatau" Business Center, Almaty, 050040, Kazakhstan

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Nederland BV

De Wel 18, Building C, 3871 MV HOEVELAKEN, The Netherlands

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare Norge AS

Vitaminveien 1A, 0485 OSLO, Norway

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Polska Sp.z o.o.

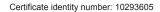
ul. Wołoska 9, 02-583 WARSAW, Poland

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



001





Location Activities

General Electric Healthcare Portugal, Sociedade Unipessoal, Lda.

Avenida do Forte 6 6-A, Ed. Ramazzotti, 2790-072 CARNAXIDE, Portugal

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems SRL.

301-311 Barbu Vacarescu St., District 2, Lakeview Building, 3rd floor, 020276 BUCHAREST, Romania

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare LLC

10 Presnenskaya embankment, premise III, 12 floor, room 1, MOSCOW, 123112, Russian Federation

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Holdings d.o.o.

Bulevar Mihaila Pupina 6/17 PC,, Usce, Novi Beograd, BELGRADE, 11070, Republic of Serbia

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

General Electric International (Slovensko), s.r.o.

Prievozská 4, 821 09 BRATISLAVA, Slovakia

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

General Electric Healthcare España, S.A.U

Calle Gobelas 35-37, Urbanizacion La Florida, 28023 MADRID, Spain

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



001



Location Activities

GE Healthcare Sverige AB

Vendevägen 89, 182 32 DANDERYD, Sweden

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Schweiz AG

Europastrasse 31, 8152 GLATTBRUGG, Switzerland

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare

Pollards Wood, Nightingales Lane, Chalfont St Giles, HP8 4SP, Buckinghamshire, United Kingdom

ISO 14001:2015

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



001



Certificate of Approval

This is to certify that the Management System of:

GE HEALTHCARE EUROPE SALES AND SERVICES

283 rue de la Minière, 78530 BUC, France

has been approved by Lloyd's Register to the following standards:

ISO 45001:2018

Approval number(s): ISO 45001 - 00027009

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



Daniel Oliva Marcilio de Souza

Area Operations Manager - South Europe

Issued by: LRQA France SAS

for and on behalf of: Lloyd's Register Quality Assurance Limited



001



Location Activities

GE Medical Systems SCS

283 rue de la Minière, 78530 BUC, France

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GEMS SCS

24 avenue de l'Europe, 78140 VELIZY VILLACOUBLAY, France

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare BVBA

Kouterveldstraat 20, Eagle Building, 1831 DIEGEM, Belgium

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare Bulgaria LTD

Dragan Tzankov Blvd. 36, World Trade Centre, 1040 SOFIA, Bulgaria

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Česká republika, s.r.o.

Bucharova 2641/14, Explora Business Centre, Jupiter Building, 158 00 PRAHA 5, Czech Republic

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare Finland Oy

Kuortaneenkatu 2, 00510 HELSINKI 18, Finland

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



001



Location	Activities
GE Medical Systems Information Technologies GmbH Munzingerstr. 3a-5, 79111 FREIBURG, Germany	ISO 45001:2018 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.
GE Healthcare GmbH Beethovenstr. 239, 42655 SOLINGEN, Germany	ISO 45001:2018 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.
GE Healthcare S.A. 8-10 Sorou, Maroussi, 151 25 ATHENS, Greece	ISO 45001:2018 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.
GE Healthcare Magyarország Kft. Bence utca 3., 1138 BUDAPEST, Hungary	ISO 45001:2018 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.
GE Medical Systems Ireland Ltd Unit F5, Centre Point Business Park, Oak Drive DUBLIN 12, Ireland	ISO 45001:2018 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.
GE Medical Systems Italia SpA Via Galeno 36, 20126 MILAN, Italy	ISO 45001:2018 Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.





Location Activities

GE Medical Systems Polska Sp.z o.o.

ul. Wołoska 9, 02-583 WARSAW, Poland

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management. repair and installation of medical devices

General Electric Healthcare Portugal, Sociedade Unipessoal, Lda.

Avenida do Forte 6 6-A, Ed. Ramazzotti, 2790-072 CARNAXIDE, Portugal

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems SRL.

301-311 Barbu Vacarescu St., District 2, Lakeview Building, 3rd floor, 020276 BUCHAREST, Romania

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare LLC

10 Presnenskaya embankment, premise III, 12 floor, room 1, MOSCOW, 123112, Russian Federation

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Holdings d.o.o.

Bulevar Mihaila Pupina 6/17 PC,, Usce, Novi Beograd, BELGRADE, 11070, Republic of Serbia

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management. associated with sales, marketing, services, repair and installation of medical devices



001



Location Activities

General Electric International (Slovensko), s.r.o.

Prievozská 4, 821 09 BRATISLAVA, Slovakia

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices.

Excluding office facility management.

General Electric Healthcare España, S.A.U

Calle Gobelas 35-37, Urbanizacion La Florida, 28023 MADRID, Spain

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare Sverige AB

Vendevägen 89, 182 32 DANDERYD, Sweden

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Schweiz AG

Europastrasse 31, 8152 GLATTBRUGG, Switzerland

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare

Pollards Wood, Nightingales Lane, Chalfont St Giles, HP8 4SP, Buckinghamshire, United Kingdom

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Nederland BV

De Wel 18, Building C, 3871 MV HOEVELAKEN, The Netherlands

ISO 45001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



001



Location **Activities** GE Healthcare Austria GmbH & Co OG ISO 45001:2018 Sales, delivery, installation, repairing, servicing, Technologiestr. 10, 1220 WIEN, Austria commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management. General Electric Kazakhstan LLP ISO 45001:2018 Sales, delivery, installation, repairing, servicing, 308 of. "Grand-Alatau" Business Center, "Grand-Alatau" commissioning, and decommissioning of GE Healthcare Business Center, Almaty, 050040, Kazakhstan medical devices and multivendor medical devices. Excluding office facility management.





Certificate of Approval

This is to certify that the Management System of:

GE HEALTHCARE EUROPE SALES AND SERVICES

283 rue de la Minière, 78530 BUC, France

has been approved by Lloyd's Register to the following standards:

ISO 50001:2018

Approval number(s): ISO 50001 - 0043293

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

Danif Oliv

Daniel Oliva Marcilio de Souza

Area Operations Manager - South Europe

Issued by: LRQA France SAS

for and on behalf of: Lloyd's Register Quality Assurance Limited



001



Location Activities

GE Medical Systems SCS

283 rue de la Minière, 78530 BUC, France

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices.

GEMS SCS

24 avenue de l'Europe, 78140 VELIZY VILLACOUBLAY, France

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare BVBA

Kouterveldstraat 20, Eagle Building, 1831 DIEGEM, Belgium

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare Finland Oy

Kuortaneenkatu 2, 00510 HELSINKI 18, Finland

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Information Technologies GmbH

Munzingerstr. 3a-5, 79111 FREIBURG, Germany

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices.

GE Healthcare GmbH

Beethovenstr. 239, 42655 SOLINGEN, Germany

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



001



Location Activities

GE Medical Systems Ireland Ltd

Unit F5, Centre Point Business Park, Oak Drive DUBLIN 12, Ireland

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Italia SpA

Via Galeno 36, 20126 MILAN, Italy

ISO 50001:2018

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General Electric Healthcare Portugal, Sociedade Unipessoal, Lda.

Avenida do Forte 6 6-A, Ed. Ramazzotti, 2790-072 CARNAXIDE, Portugal

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare LLC

10 Presnenskaya embankment, premise III, 12 floor, room 1, MOSCOW, 123112, Russian Federation

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

General Electric Healthcare España, S.A.U

Calle Gobelas 35-37, Urbanizacion La Florida, 28023 MADRID, Spain

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare Sverige AB

Vendevägen 89, 182 32 DANDERYD, Sweden

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



001



Location Activities

GE Medical Systems Schweiz AG

Europastrasse 31, 8152 GLATTBRUGG, Switzerland

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare

Pollards Wood, Nightingales Lane, Chalfont St Giles, HP8 4SP, Buckinghamshire, United Kingdom

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Medical Systems Nederland BV

De Wel 18, Building C, 3871 MV HOEVELAKEN, The Netherlands

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

General Electric Kazakhstan LLP

308 of. "Grand-Alatau" Business Center, "Grand-Alatau" Business Center, Almaty, 050040, Kazakhstan

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.

GE Healthcare Austria GmbH & Co OG

Technologiestr. 10, 1220 WIEN, Austria

ISO 50001:2018

Sales, delivery, installation, repairing, servicing, commissioning, and decommissioning of GE Healthcare medical devices and multivendor medical devices. Excluding office facility management.



001



LOGIQ Fortis R3.x HDU

Product Specification Sheet

Last updated on: Thursday, January 13, 2022

1	General Specifications	
_	Dimensions and Weight	
2	(Dimensions given with floating keyboard stowed and display tilted for transport)	
3	Depth 885 mm, 34.8"	
4	Height	1250 – 1800 mm, 49 – 71"
5	Weight	85 kg (187.4 lb)
5	veignt	530 mm, 20.9" (Caster),
6	Width	565 mm, 22.2" (Monitor)
7	Electrical Power	303 mm, 22.2 (Piomtor)
8	Voltage: 100 – 240 Vac	
9	Frequency: 50/60 Hz	
10	Power consumption maximum of 0.9 kVA with peripherals	
11	Console Design	
12	4 active probe ports	
13	1 inactive probe storage port	
14	Integrated SSD (1 TB)	
15	Integrated DVD-R Multi Drive	
16	On-board storage of thermal printer	
17	Integrated speaker	
18	Integrated locking mechanism that provides rolling lock and caster swivel lock	
19	Integrated cable management	
20	Front and rear handles	
21	Easily removable air filters	
22	Windows 10 64-bit	
23	User Interface	
24	Operator Keyboard	
25	Operating keyboard adjustable in height and rotation	
26	Ergonomic hard key layout	
27	Interactive back-lighting	
28	Integrated recording keys for remote control of up to 4 peripheral devices or DICOM® devices	
29	Integrated gel warmer	
30	Touch Screen	
31	12.1" High-resolution, color, touch, display screen	
32	Interactive dynamic software menu	
33	Brightness adjustment	
34	User-configurable layout	
35	Monitor	
36	23.8" Wide screen high-resolution HDU display	
37	Display translation (independent of console)	
38	350 mm, (13.7 in) horizontal (both directions)	
39	150 mm, (5.9 in) vertical	
40	90° swivel (both directions)	
41	Fold-down and lock mechanism for transportation	
42	Resolution: 1920 X 1080	
43	Anti-glare	
44 45	Viewing angle 89/89/89/89° Contrast Ratio: >20,000:1	
46	System Overview	
46	Applications	
47	Abdominal	
48	Obstetrical	
50	Obstetrical Gynecological	
51	Breast	
21	5.000	

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	Small Parts
53	Peripheral Vascular Transport in (a dult and a special)
54	Transcranial (adult and neonatal)
55	Pediatric and neonatal
56	Musculoskeletal (general and superficial)
57	Urological Continue (adults and and interior)
58	Cardiac (adult and pediatric) Interventional
59	
60	Pleural Pleural
61	Operating Modes
62	B-Mode M-Mode
63	
64	Color Flow Mode (CFM)
65 66	B-Flow (Option) Extended Field of View (LOGIQView)
67	Power Doppler Imaging (PDI)
68	PW Doppler
69	CW Doppler (Option)
09	Volume Modes (3D/4D)
70	(Option)
71	Anatomical M-Mode
72	Coded Contrast Imaging (Option)
73	Strain elastography (Option)
74	B Steer+ (Option)
	Shear wave elastography (Option)
76	UGAP (Option) - Ultrasound Guided Attenuation Parameter Imaging
	Scanning Methods
78	Electronic sector
79	Electronic convex
80	Electronic linear Electronic linear
81	Mechanical volume sweep
	Probe Types
83	Sector phased array
84	Convex array
85	Microconvex array
86	Linear array Matrix array
87	Matrix array Volume probes (4D)
88 89	Split crystal
	System Standard Features
90 91	Advanced user interface with high-resolution 12.1" display touch panel
	Automatic optimization
93	CrossXBeam™ compounding
94	Speckle Reduction Imaging (SRI-HD, Advanced SRI Type 1)
95	Fine angle steer
96	Coded harmonic imaging
97	Virtual convex
98	Patient information database
99	Image archive on integrated CD/DVD and hard drive
100	Advanced 3D
101	Raw data analysis
102	Real-time automatic Doppler calculations
103	OB calculations
	Fetal trending
	Multi gestational calculations
106	Hip dysplasia calculations
	Gynecological calculations
108	Vascular calculations
109	Urological calculations
110	Renal calculations
111	Cardiac calculations
	InSite™ capability
113	On-board electronic documentation

Inc. Lickense USE printer connection			
117 Exerval USB printer connection	115	Privacy and security, including user and rights management	
HOM course (mailable for compatible devices)			
19			
1012 Friends			
121 Tickey®			
Incompare Assistant			
25 Serious		•	
Accordance Assistant Accordance Assistant Breast productivity package Tyround recruitive package Tyround recru			
125			
Parent productivity package Parent package Parent package Parent package Parent packag			
239 OB measure assistant	127		
	128		
131 Breast Measure Assistant			
Steer	130		
Strain elastography	131		
Satsgraphy Quantification	132		
135 Advanced privacy and security (vulnerability scan) 156 Power assistant and scan on battery 137 Storage bins 138 Shear wave Elastography 140 UGAP 141 Hepatic Assistant 142 Coded Contrast Imaging 143 Stress ech 144 Cardiac Strain (Automatic Function Imaging) 146 On-bard reporting 147 Wireless LAN 148 CW 149 UVR 150 Table tools 151 Advanced probes 152 Breast Assistant, Powered by Kolos DS™ 153 SonoNT SonolT 154 Advanced Option for Digital Color thermal Printer 155 Perpheral Options 154 Advanced Option for Digital Color thermal Printer 157 Digital AS color thermal printer 158 Foot switch, with programmable functionality 159 GPE-200L card reader support (Japan Only) 160 Console protective cover 161 LOGIQ smart device apps <td>133</td> <td></td> <td></td>	133		
Newer assistant and scan on battery	134		
Storage bins	135		
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145 On-board reporting 147 Wiless LAN 148 CW 149 DVR 150 Table tools 151 Advanced probes 152 Breast Assistant, Powered by Koios DS™ 153 SonoNT SonoIT 154 Advanced SRI Type 2 155 Peripheral Options 156 Integrated Option for Digital Color thermal Printer 157 Digital Act color thermal printer 158 Foot switch, with programmable functionality 159 CRF-200U card reader support (Japan Only) 160 Console protective cover 161 LOGIQ smart device apps Photo Assistant 162 Peripheral Options 163 Live and stored display format 164 Review image format 165 For still and CINE 166 For still and CINE 167 For still and CINE 168 For still and CINE 169 Independent Dual B or CrossXBeam/PW Display 160 Virtual convex 167 Simultaneous capability 168 B or CrossXBeam/PW 169 B or CrossXBeam/PW 169 B or CrossXBeam/CM Option) 160 B or CrossXBeam/CW (Option) 161 B/M 162 B/CrossXBeam/CFM or PDI 171 B/M 172 B/CrossXBeam	143		
146 IVI 147 Wireless LAN 148 CW 149 DVR 150 Table tools 151 Advanced probes 152 Breast Assistant, Powered by Koios DS™ 153 SonoNT SonoIT 154 Advanced SRI Type 2 155 Peripheral Option for Digital Color thermal Printer 157 Digital A6 color thermal printer 158 Foot switch, with programmable functionality 159 CRF-200∪ card reader support (Japan Only) 160 Console protective cover 161 LOGIQ smart device apps 1 Photo Assistant 1 Remote Control 1 Pisipa Modes 1 Full size and split screen – both w/ thumbnails. 162 Possibla Modes 1 For still and CINE 1 For still and CINE 1 Independent Dual B or CrossXBeam/PW Display 1 CW 1 Display format top/control Side/side selectable format 1 Side/side selectable format 1 Simultaneous capability 1 B or CrossXBeam/PW Option) 1 B or CrossXBeam/PW Option) 1 B or CrossXBeam/PW Option) 1 B or CrossXBeam/CW (Option) 1 B or CrossXBeam/CW (Option) 1 B or CrossXBeam/CW (Option) 1 B or CrossXBeam/CM or PDI 1 B M 1 M 1 M 1 M 1 M 1 M 1 M 1	144		
Wireless LAN	145	On-board reporting	
UVR DVR Advanced probes Freast Assistant, Powered by Koios DS™ Advanced SR Type 2 Integrated Option for Digital Color thermal Printer Digital A6 color thermal printer Console protective cover LOGIQ smart device apps Live and stored display format Review image format For still and CINE Sinultaneous capability B or CrossXBeam/CW (Option)	146	TVI	
DVR Table tools T	147	Wireless LAN	
Table tools Advanced probes Advanced probes Breast Assistant, Powered by Koios DS'' SonoNT SonolT Advanced SRI Type 2 Integrated Option for Digital Color thermal Printer Digital A6 color thermal printer Fot switch, with programmable functionality Console protective cover LOGIQ smart device apps Live and stored display format Review image format For still and CINE - 1 Advanced SRI Type 2 - 2 Photo Assistant - Remote Control - Photo Assistant - Remote Control - Photo Assistant - Remote Control - Full size and split screen – both w/ thumbnails. For still and CINE - 4x4, and thumbnails. For still and CINE - Independent Dual B or CrossXBeam/PW Display - CW - Display format stop/bottom selectable format - Side/side selectable format - Side/side selectable format - Side/side selectable format - B or CrossXBeam/PW - B or CrossXBeam/PM - B or CrossXBeam/PM - B or CrossXBeam/CFM or PDI - B // CrossXBeam/CFM or PDI - Advanced SRI Type 2 - Advanced S	148	CW	
Advanced probes Breast Assistant, Powered by Koios DS™	149	DVR	
Breast Assistant, Powered by Koios DS™ SonoNT SonoIT Advanced SRI Type 2 155 Peripheral Options Integrated Option for Digital Color thermal Printer 157 Digital A6 color thermal printer 158 Foot switch, with programmable functionality 159 CRF-200U card reader support (Japan Only) 160 Console protective cover 161 LOGIQ smart device apps 1 Photo Assistant Remote Control 162 Photo Assistant Remote Control 163 Live and stored display format 164 Review image format 165 Time line display 166 Virtual convex 167 Simultaneous capability 168 B or CrossXBeam/PW 169 B or CrossXBeam/PW 169 B or CrossXBeam/PW 169 B or CrossXBeam/PW 170 B/MS 171 B/M 172 B/CossXBeam 187 Sinous Assistant 188 Por CrossXBeam/CFM or PDI 187 B/MS 178 B or CrossXBeam	150	Table tools	
SonoNT SonoIT	151	Advanced probes	
SonoNT SonoIT	152	Breast Assistant, Powered by Koios DS™	
Peripheral Options Integrated Option for Digital Color thermal Printer	153		
Integrated Option for Digital Color thermal Printer Digital AG color thermal printer Foot switch, with programmable functionality CRF-200U card reader support (Japan Only) Console protective cover 161 LOGIQ smart device apps	154	Advanced SRI Type 2	
Integrated Option for Digital Color thermal Printer Digital AG color thermal printer Foot switch, with programmable functionality CRF-200U card reader support (Japan Only) Console protective cover 161 LOGIQ smart device apps	155		
Digital A6 color thermal printer	156		
Foot switch, with programmable functionality CRF-200U card reader support (Japan Only) Console protective cover LOGIQ smart device apps Photo Assistant Remote Control Full size and split screen – both w/ thumbnails. For still and CINE Av4, and thumbnails. For still and CINE Independent Dual B or CrossXBeam/PW Full size and split screen – both w/ thumbnails. For still and CINE Independent Dual B or CrossXBeam/PW B or CrossXBeam/PW B or CrossXBeam/CW (Option) B or CrossXBeam/CM (Option) B/M B/CrossXBeam B/CrossXB	157		
159 CRF-200U card reader support (Japan Only) 160 Console protective cover 161 LOGIQ smart device apps Photo Assistant Remote Control 162 Display Modes 163 Live and stored display format Prul size and split screen – both w/ thumbnails. For still and CINE 164 Review image format Prun still and CINE 165 Image in the display format Prun still and CINE 166 Virtual convex 167 Simultaneous capability 168 B or CrossXBeam/PW 169 B or CrossXBeam/CW (Option) 170 B or CrossXBeam/CFM or PDI 171 B/M 172 B/CrossXBeam	158		
Console protective cover	159		
Photo Assistant Remote Control	160		
Live and stored display format Review image format Find line display Time line display Virtual convex For Simultaneous capability B or CrossXBeam/CW (Option) For still and CINE - Review image format - Review image format - Review image format - Simultaneous capability For still and CINE - Independent Dual B or CrossXBeam/PW Display - CW - Display formats top/bottom selectable format - Side/side selectable format		·	Photo Assistant
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Live and stored display format Full size and split screen – both w/ thumbnails. For still and CINE 4x4, and thumbnails. For still and CINE 14x4, and thumbnails. For still and CINE Independent Dual B or CrossXBeam/PW Display CW Display formats top/bottom selectable format Side/side selectable format Simultaneous capability B or CrossXBeam/CW (Option) B or CrossXBeam/CFM or PDI TIME B/M B/CrossXBeam For still and CINE 14x4, and thumbnails. For still and CINE 15x5 15x6 15x7 15x7 15x8 15x8	162	Display Modes	
Review image format Review image format - 4x4, and thumbnails. For still and CINE - independent Dual B or CrossXBeam/PW Display - CW - Display formats top/bottom selectable format - Side/side selectable format Simultaneous capability Simultaneous capability B or CrossXBeam/PW (Option) B or CrossXBeam/CFM or PDI Time line display CW	163	•	
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165 Time line display • CW • Display formats top/bottom selectable format • Side/side selectable format 166 Virtual convex 167 Simultaneous capability 168 B or CrossXBeam/PW 169 B or CrossXBeam/CW (Option) 170 B or CrossXBeam/CFM or PDI 171 B/M 172 B/CrossXBeam			
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166 Virtual convex 167 Simultaneous capability 168 B or CrossXBeam/PW 169 B or CrossXBeam/CW (Option) 170 B or CrossXBeam/CFM or PDI 171 B/M 172 B/CrossXBeam	100	Time and anoptic	
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169 B or CrossXBeam/CW (Option) 170 B or CrossXBeam/CFM or PDI 171 B/M 172 B/CrossXBeam	167		
170 B or CrossXBeam/CFM or PDI 171 B/M 172 B/CrossXBeam	168		
171 B/M 172 B/CrossXBeam	169		
172 B/CrossXBeam	170	B or CrossXBeam/CFM or PDI	
	171	B/M	
173 B-Flow/PW	172		
	173	B-Flow/PW	

174	Real-time Triplex Mode -	
	B or CrossXBeam + CFM or PDI/PW	
175	Selectable alternating modes	
176	B or CrossXBeam/PW	
177	B or CrossXBeam + CFM (PDI)/PW	
178	B/CW (Option)	
179	Multi-image (split/quad screen)	
180	Live and/or frozen	
181	B or CrossXBeam + B or CrossXBeam/CFM or PDI or B-Flow (Option)	
182	PW/M	
183	Independent Cine playback	
184	Display Annotation	
185	Patient name: first, last and middle	
186	Patient ID	
187	Alternate patient ID	
188	Age, sex and date of birth	
189	Hospital name	
190	Date format: three types selectable	MM/DD/YY DD/MM/YY
	Time format:	• YY/MM/DD • 24 hours
191	2 types selectable	• 24 nours • 12 hours
	2 types selectable	
		• LMP
192	Gestational age from	• GA
		• EDD
4.6-		• BBT
193	Probe name	
194	Map names	
195	Probe orientation	
196	Depth scale marker	
197	Lateral scale marker	
198	Focal zone markers	
	In the state of th	
199	Image depth	
199 200	Image depth Zoom depth	
		• Gain
		Dynamic range
		Dynamic range Imaging frequency
200	Zoom depth	Dynamic rangeImaging frequencyFrame averaging
200	Zoom depth	Dynamic rangeImaging frequencyFrame averagingGray map
200	Zoom depth	Dynamic rangeImaging frequencyFrame averagingGray mapSRI
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain
200	Zoom depth	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width
201	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter
200	Zoom depth B-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale
201	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion
201	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale
201	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF
201	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency
201	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density
200	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging
200	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity
200	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging
200	Zoom depth B-Mode M-Mode Doppler Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color velocity range and baseline
201	Zoom depth B-Mode M-Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color velocity range and baseline Color threshold marker
200	Zoom depth B-Mode M-Mode Doppler Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color velocity range and baseline Color threshold marker Color gain
200	Zoom depth B-Mode M-Mode Doppler Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color velocity range and baseline Color threshold marker Color gain PDI
201 202 203	Zoom depth B-Mode M-Mode Doppler Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color velocity range and baseline Color threshold marker Color gain
201 202 203	Zoom depth B-Mode M-Mode Doppler Mode Color Flow Doppler Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color velocity range and baseline Color threshold marker Color gain PDI
201 202 203	Zoom depth B-Mode M-Mode Doppler Mode Color Flow Doppler Mode Digital TGC with 8 independent controls	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color velocity range and baseline Color threshold marker Color gain PDI Spectrum inversion
200 201 202 203	Zoom depth B-Mode M-Mode Doppler Mode Color Flow Doppler Mode	 Dynamic range Imaging frequency Frame averaging Gray map SRI Gain Dynamic range Time scale Gain Angle Sample volume depth and width Wall filter Velocity and/or frequency scale Spectrum inversion Time scale PRF Doppler frequency Line density Frame averaging Color scale, 3 types: Power, directional PDI and symmetrical velocity imaging Color velocity range and baseline Color threshold marker Color gain PDI Spectrum inversion

207	CINE gage, image number/frame number	
208	Body pattern: multiple human and animal types	
209	Application name	
210	Measurement results	
211	Operator message	
212	Displayed acoustic output	 TIS: Thermal Index Soft Tissue TIC: Thermal Index Cranial (Bone) TIB: Thermal Index Bone MI: Mechanical Index
213	% of maximum power output	
214	Biopsy guide line and zone	
215	Heart rate	

217 System Setup 218 Pre-programmable categories 219 User programmable preset capability 220 Factory default preset data 221 Languages: English, French, German, Spanish, Italian, Brazilian, 222 Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian 223 OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO 224 Body patterns 225 Customized comment home position 226 EZ Imaging: Simplified user interface for high volume workflow 227 Complete user manual available on board through Help (F1) 228 User manual and service manual available on board through Help (F1) 229 CINE Memory/Image Memory 230 1 GB of CINE memory 231 Selectable CINE sequence for CINE review 232 Prospective CINE mark 233 Measurements/calculations and annotations on CINE playback 234 Scrolling timeline memory 235 Dual Image CINE display 236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review speed 240 Image Storage 241 On-board database of patient information from past exams Compressed/uncompressed		
218 Pre-programmable categories 219 User programmable preset capability 220 Factory default preset data 221 Languages: English, French, German, Spanish, Italian, Brazilian, 222 Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian 223 OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO 223 User defined annotations 224 Body patterns 225 Customized comment home position 226 EZ Imaging: Simplified user interface for high volume workflow 227 Complete user manual available on board through Help (F1) 228 User manual and service manual are included in USB stick with each system. A printed manual is available upon request. 229 CINE Memory/Image Memory 230 1 GB of CINE memory 231 Selectable CINE sequence for CINE review 232 Prospective CINE mark 233 Measurements/calculations and annotations on CINE playback 234 Scrolling timeline memory 235 Dual Image CINE display 236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 240 On-board database of patient information from past exams * Compressed/uncompressed * Single/multi-frame*		
219 User programmable preset capability 220 Factory default preset data 221 Languages: English, French, German, Spanish, Italian, Brazilian, 222 Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian 223 OB Report Formats including Tokyo Univ., Osaka Univ., USA, Europe and ASUM and WHO 223 User defined annotations 224 Body patterns 225 Customized comment home position 226 EZ Imaging: Simplified user interface for high volume workflow 227 Complete user manual available on board through Help (F1) 228 User manual and service manual are included in USB stick with each system. A printed manual is available upon request. 229 CINE Memory/Image Memory 230 1 GB of CINE memory 231 Selectable CINE sequence for CINE review 232 Prospective CINE mark 233 Measurements/calculations and annotations on CINE playback 234 Scrolling timeline memory 235 Dual Image CINE display 236 Quad Image CINE display 237 CINE gauge and CINE image number display 238 CINE review loop 239 CINE review speed 240 Image Storage 240 On-board database of patient information from past exams **Compressed/uncompressed** - Storage formats: DICOM**		
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Compressed/uncompressed Storage formats: DICOM Storage formats: DICOM		
242 Storage formats: DICOM • Single/multi-frame		
1/4/ Storage formats: UIL UIVI		
- With/without raw data 243 Export JPEG, JPEG 2000, WMV (MPEG 4) formats		
• USB memory stick: 64 MB to 64 GB		
(for exporting individual images/clips)		
244 Storage devices: • CD-R storage: 700 MB		
• DVD storage: -R (4.7 GB)		
• Hard drive image storage: ~830GB		
245 Compare previous exam images with current exam		
246 Reload of archived date sets		
247 Network storage support for import, export, DICOM read, SaveAs, MPEGVue		
248 Connectivity		
249 Ethernet network connection		
250 Wireless LAN 802.11ac/a/b/g/n (Option)		
• Verify		
• Print		
• Store		
Modality worklist		
251 DICOM 3.0 • Storage commitment		
• Modality performed procedure step (MPPS)		
Media exchange Off a thread life at the second support of th		
Off network/mobile storage queue		
• Query/retrieve		
252 Public SR template		
253 Structured Reporting – compatible with vascular and OB, cardiac and breast standard		
254 InSite capability		
255 Advanced privacy and security (Option)		

256	Physiological input panel (Option)	
		• ECG, 1 channel
		• PCG, 1 channel
		• AUX, 1 channel
		Dual R-Trigger
		Pre-settable ECG R delay time
257	Physiological input	Pre-settable ECG position
231	Friysiological iliput	
		Adjustable ECG gain control
		Pre-settable PCG position
		Adjustable PCG gain control
		Pre-settable AUX position
		Adjustable AUX gain control
258	Automatic heart rate display	
259	Auto Ejection Fraction	
260	Report writer (Option)	
261	On-board reporting package automates report writing	
262	Formats various exam results into a report suitable for printing or reviewing on a s	candard PC
263	Exam results include patient info, exam info, measurements, calculations, images,	
203	and comments Standard templates provided	
264	Customizable templates	
265	Scanning Parameters	
266	cSound™ Imageformer: Infinite number of effective channels	
267	Frame rate: 9,675 Hz maximum	
268	Displayed imaging depth: 0 – 100 cm	
269	Minimum depth of field: 0 – 2 cm (zoom) (probe dependent)	
	Maximum depth of field: 0 – 200 cm (probe dependent)	
270		
271	Continuous dynamic receive focus	
272	Continuous dynamic receive aperture	
273	Adjustable dynamic range, inifinite upper level	
274	Adjustable field of view (FOV)	
275	System Frequency Range: 0.7-24 MHz	
276	Image reverse: right/left	
277	Image rotation of 0°, 90°, 180°, 270°	
278	8 bits stored per color	
279	256 shades of gray	
280	256 color tones	
281	Digital B-Mode	
		Acoustic power
		• Gain
		Dynamic range
		Frame averaging
		Gray scale map
		• Frequency
		 Speed of sound (application dependent)
282	Adjustable	Framerate
		Scanning size (FOV or Angle)
		– Depending on the probe, see probe specifications
		• CrossXBeam
		B colorization
		• Reject
		• Suppression
		• SRI
283	Digital M-Mode	
		Acoustic power
		• Gain
		Dynamic range
		Gray scale map
284	Adjustable	• Frequency
		• Sweep speed
		M colorization
I		• M display format
		- m display lumat
		Paiastian
205	Anatomical M. Modo	Rejection
285 286	Anatomical M-Mode M-mode cursor adjustable at any plane	Rejection

287	Can be activated from a CINE loop from a live or stored image	
288	M & A capability	
289	Available with Color Flow Mode	
290	Digital Spectral Doppler Mode	
291	Adjustable	Acoustic power Gain Dynamic range Gray scale map Transmit frequency Wall filter PW colorization Velocity scale range Sweep speed Sample volume length Angle correction Steered linear Spectrum inversion Trace method Baseline shift Doppler auto trace
		• Time resolution
		Compression
		Trace direction
		Trace sensitivity
292	Digital Color Flow Mode	
293	Adjustable	 Acoustic power Color maps, including velocity-variance maps Gain Velocity scale range Wall filter Packet size Line density Spatial filter Steering angle Baseline shift Frame average Threshold Auto ROI placement and steering on linear Accumulation mode Flash suppression Shortcuts
294	Digital Power Doppler Imaging	
295	Adjustable Continuous Wave Doppler (Option)	Acoustic power Color maps, velocity-variance maps Gain including Velocity scale range Wall filter Packet size Line density Spatial filter Steering angle Frame average Threshold Accumulation mode Flash suppression Shortcuts
297	Available on M5Sc-D, 6S-D, 6Tc-RS, P2D and P6D probes	
298	Steerable CW mode included	
	•	

		Acoustic power
		• Gain
		Dynamic range
		• Gray scale map
		Transmit frequency
		· · ·
		• Wall filter
		CW colorization
		Velocity scale range
299	Adjustable	Sweep speed
		Angle correction
		Spectrum inversion
		Trace method
		Baseline shift
		Doppler auto trace
		• Compression
		• Trace direction
		Trace direction Trace sensitivity
700	Automotic Outimication	• Frace Sensitivity
300	Automatic Optimization	
301	Optimize B-Mode image to help improve contrast resolution with one button press	
302	Selectable amount of contrast resolution improvement (low, medium, high)	
303	CTO (Continuous Tissue Optimization) – continuously adjusts B-Mode axial and later	al gain uniformity and overall gain level suppressing the noise
304	Auto-spectral optimize – adjusts baseline, invert, PRF (on live image), and angle corre	ection with one button press
305	Auto CF and PW positioning – adjusts ROI position, sample volume position and stee	
306	Coded Harmonic Imaging	mig war one section press
307	Available on all 2D and 4D probes	
308	B-Flow (Option)	
306		OVAL D. C7 40 D. L2 O. D. L2 OVAL D. L7 42 D. LC 24 D.
309	Available on the following probes: C1-6-D, C1-6VN-D, C2-7-D, C2-7VN-D, C2-9-D, C2-9VN-D, C3-10-D, L2-9-D, L2-9VN-D, L3-12-D, L6-24-D ML6-15-D, M5Sc-D, L8-18i-D	
310	Background	
311	Sensitivity/PRI	
312	Acoustic power	
313	Frequency	
314	Line density	
315	Frame average	
316	Gray scale map	
317	Tint map	
	·	
318	Dynamic range	
319	Rejection	
320	Gain	
321	Suppression	
322	SRI	
323	Accumulation	
324	Visualization	
325	Radiant <i>flow</i> ™	
326	Easy, fast visualization of tiny vessels, displaying as a 3D effect	
327	Available in Color Doppler, Power Doppler and MVI	
328	B Steer+ (Option)	
329	Available on the following probes: L2-9-D, ML6-15-D, L8-18i-D, L3-12-D, L2-9VN-D	
330	Coded contrast imaging (Option)	
331	Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D, C2-7-D, C2-7VN-D, C3-10-D, IC5-9-D, L2-9-D, L2-9VN-D, L3-12-D, M5Sc-D, ML6-15-D, RAB6-D, RIC5-9-D, L6-24-D	
772	2 contrast timers	
332	Timed updates: 0.05 – 10 seconds	
333		
334	Accumulation mode, seven levels	
335	Maximum enhance mode	
336	Flash	
337	Time intensity curve (TIC) analysis	
338	Parametric imaging	
339	Ability to save still image during clip acquisition	

	The LOGIQ Fortis is designed for compatibility with most commercially available	ultrasound contrast agents.	
	Because the availability of these agents is subject to government regulation and approval, product features		
340	intended for use with these agents may not be commercially marketed nor made		
340	agent is cleared for use.	available before the contrast	
		and a simple and a sumbon and a simple after a	
	Contrast related product features are enabled only on systems for delivery to an authorized country or region of use.		
341	LOGIQView		
342	Extended field of view Imaging		
343	Up to 160 cm (63") scan length		
344	Available on all 2D imaging probes		
345	For use in B-Mode		
346	CrossXBeam is available on linear probes		
347	Auto detection of scan direction		
348	Pre-or post-process zoom		
349	Rotation		
350	Auto best fit on monitor		
351	Measurements in B-Mode		
352	3D		
353	Allows unlimited rotation and planar translation		
354	3D reconstruction from CINE sweep		
355	Easy 3D available on all probes		
356	Advanced 3D		
357	Acquisition of color data		
358	Automatic rendering		
359	3D landscape technology		
360	3D movie		
361	Real-time 4D (Option)		
301	real time is (option)	• Real Time 4D	
362	Acquisition modes	Spatio-Temporal Image Correlation (Option)	
302	Acquisition modes	Static 3D	
		• 3D rendering (diverse surface and intensity projection modes)	
		Sectional planes (3 section planes perpendicular to each other)	
		Omniview (Option)	
		Volume contrast imaging – Static (Option)	
		Volume contrast imaging – Omniview (Option)	
363	Visualization modes	Tomographic ultrasound imaging (Option)	
		Volume Analyses	
		 VOCAL: semi-auto/manual segmentation tool 	
		(segmentation using touch screen) (Option)	
		- 3D Static only	
		- Threshold Volume: measure	
		volume below and above a threshold	
		Surface texture, surface smooth, max-, min-	
7.0.4		and X-ray (average intensity projection),	
364	Render mode	mix mode of two render modes	
		• HD <i>live</i> ™	
365	SonoRender <i>live</i>	I	
366	Curved 3 point Render start		
367	3D Movie		
368	Scalpel: 3D cut tool		
	·	• Quad: A-/B-/C-Plane/3D	
369	Display format:	• Dual: A-Plane/3D	
303		• Single: 3D or A- or B- or C-Plane	
370	Automated Volume Calculation – VOCAL II	1 - 0.5.5- 5 5 5. 6.1000	
371	Betaview		
372	Volume navigation (Option)		
J, L	Second (Abaren)		
373	Available on the following probes: C1-6VN-D, C2-9VN-D, C2-7VN-D, C3-10-D, L2-	9VN-D, ML6-15-D, IC5-9-D, L8-18i-D, M5Sc-D	
774	Soncor-based acquisition		
374	Sensor-based acquisition Position markers		
375			
376	Needle tip tracking		
377	Virtual tracking		
378 379	Auto image registration TruzD footure includes		
	Tru3D feature includes Pender modes: gray surface texture min- may- average-intensity		
380	Render modes: gray surface, texture, min-, max-, average-intensity		

381	Measurements: distance, angle, area, volume
382	3D Movie
383	Scan assistant (Option)
384	Factory programs
385	User-defined programs
386 387	Steps include image annotations, mode transitions, basic imaging controls and measurement initiation Compare Assistant (Option)
388	Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning
389	Breast productivity package
390	Auto measurement
391	Worksheet summary includes measurements and locations for lesions and lymph nodes
392	Feature assessment
393	BI-RADS™ assessment
394	User editable Control of the control
395	Thyroid productivity package (Option) Auto measurement
396 397	Worksheet summary includes measurements and locations for nodule, parathyroid and lymph nodes
398	Feature assessment
399	BI-RADS™ assessment
400	User editable
401	Start Assistant
402	Automatically select category, probe, preset, or scan assistant from worklist exam description
403	Learn the category, probe, preset, and scan assistant based on exam description
404	Shear Wave Elastography (Option)
405	Available on the following probes: C1-6-D, C1-6VN-D, L2-9-D, L2-9VN-D, IC5-9-D, L8-18i-D, ML6-15-D, L3-12-D
406	User programmable measurement display in kPa and meters per second
407	Single and dual view display
408	Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate
409	Strain elastography (Option)
410	Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, L3-12-D, IC5-9-D, C2-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D
411	Relative analysis tool
412	Applications: Abdominal, Breast, Musculoskeletal, Small Parts, Prostate, Thyroid
413	UGAP (Option)
414	Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D
415	Measures liver attenuation* (attenuation coefficient [dB/cm/MHz]) by auto measure algorithm with reference B-mode
416	Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)
417	Quantitative flow analysis (Option)
418	Available in color and power Doppler
419	TVI (Option)
420	Available on the following probes: M5Sc-D, 6Tc-RS, 6S-D probes
421	Myocardial Doppler imaging with color overlay on tissue image
422	
	Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information
423	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane
424	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium
424 425	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option)
424 425 426	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities
424 425 426 427	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates
424 425 426 427 428	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates
424 425 426 427 428 429	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates
424 425 426 427 428	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates
424 425 426 427 428 429 430	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen)
424 425 426 427 428 429 430 431	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable
424 425 426 427 428 429 430 431 432	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture
424 425 426 427 428 429 430 431 432 433	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture Over 100 sec. available
424 425 426 427 428 429 430 431 432 433	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture Over 100 sec. available Wall motion scoring (bulls-eye and segmental)
424 425 426 427 428 429 430 431 432 433	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture Over 100 sec. available Wall motion scoring (bulls-eye and segmental) Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain)
424 425 426 427 428 429 430 431 432 433 434 435	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture Over 100 sec. available Wall motion scoring (bulls-eye and segmental) Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level
424 425 426 427 428 429 430 431 432 433 434 435	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture Over 100 sec. available Wall motion scoring (bulls-eye and segmental) Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level Auto EF (Option)
424 425 426 427 428 429 430 431 432 433 434 435 436 437	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture Over 100 sec. available Wall motion scoring (bulls-eye and segmental) Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level Auto EF (Option) Allows semi-automatic measurement of the global EF (Ejection Fraction)
424 425 426 427 428 429 430 431 432 433 434 435 436 437 438	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture Over 100 sec. available Wall motion scoring (bulls-eye and segmental) Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level Auto EF (Option) Allows semi-automatic measurement of the global EF (Ejection Fraction) User editable Cardiac AFI (Option) Allows assessment of the complete left ventricle with all segments at a glance by combining three longitudinal views
424 425 426 427 428 429 430 431 432 433 434 435 436 437	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture Over 100 sec. available Wall motion scoring (bulls-eye and segmental) Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level Auto EF (Option) Allows semi-automatic measurement of the global EF (Ejection Fraction) User editable Cardiac AFI (Option) Allows assessment of the complete left ventricle with all segments at a glance by combining three longitudinal views into one comprehensive bulls-eye view
424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439	Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent from the axial plane Q-Analysis: multiple time-motion trace display from selected points in the myocardium Stress echo (Option) Advanced and flexible stress echo examination capabilities Provides exercise and pharmacological protocol templates 6 default templates Templates Template editor for user configuration of existing templates or creation of new templates Reference scan display during acquisition for stress level comparison (dual screen) Baseline level/previous level selectable Raw data continuous capture Over 100 sec. available Wall motion scoring (bulls-eye and segmental) Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level Auto EF (Option) Allows semi-automatic measurement of the global EF (Ejection Fraction) User editable Cardiac AFI (Option) Allows assessment of the complete left ventricle with all segments at a glance by combining three longitudinal views

442	Virtual Convex		
443	Provides a convex field of view		
444	Compatible with CrossXBeam		
445	Available on all linear and sector probes		
446	SRI-HD and Advanced SRI		
447	Speckle reduction imaging		
448	Provides multiple levels of speckle reduction		
449	Compatible with side-by-side DualView display		
	, , , , , , , , , , , , , , , , , , , ,	• Type 1	
	Advanced SRI:	- Compatible with all linear, convex and sector probes	
450	two types selectable	• Type 2 (Option)	
	N. A.	- Compatible with OB/GYN application	
451	CrossXBeam		
452	Provides variable angle spatial compounding		
453	Live side-by-side DualView display		
		• Color mode	
		• PW	
454	Compatible with	• SRI	
		Coded harmonic imaging	
		Virtual convex	
455	Available on all curved and linear probes		
456	Controls available while "live"		
457	Magnification Zoom: Magnifies the entire image on the screen without zoom ROI, 20:	x maximum zoom factor	
458	Pan Zoom: Magnifies the display of the data within the ROI		
459	HD Zoom: Magnifies the image within the zoom ROI, with higher spatial resolution th	an original images	
		• Gain	
		• TGC	
		Dynamic range	
460	B/M/CrossXBeam-Mode	Acoustic output	
		Framerate control	
		Sweep speed for M-Mode	
		CrossXBeam angle	
		• Gain	
		Dynamic range	
		Acoustic output	
		Transmission frequency	
461	PW-Mode	• PRF	
		• Wall filter	
		Spectral averaging	
		Sample volume gate: length, depth	
		• Velocity scale	
		• CFM gain	
		CFM velocity range	
		Acoustic output	
	Color Flow-Mode	• Wall echo filter	
462		Packet size Frame rate control	
		Frame rate control CFM spatial filter	
		CFM spatial little CFM frame averaging	
		CFM line resolution	
		Frequency/velocity baseline shift	
463	Controls available on "freeze" or recall	- Frequency/velocity paseline shift	
464	Automatic optimization		
465	SRI		
466	CrossXBeam – display non-compounded and compounded image simultaneously in :	split screen	
467	3D reconstruction from a stored CINE loop		
		Gray map optimization	
		• TGC	
468	B/M/CrossXBeam-Mode	Colorized B and M	
		• Frame average (loops only)	
		Dynamic range	
469	Anatomical M-Mode		
470	Magnification zoom		
471	Pan zoom		
472	Maximum read zoom to 8x		
-	·		

473	Baseline shift		
474	Sweep speed		
475	PW mode	Gray map Post gain Baseline shift Sweep speed Invert spectral wave form Compression Rejection Colorized spectrum Display format Doppler audio Angle correct Quick angle correct Auto angle correct	
476	Color flow	 Overall gain (loops and stills) Color map Transparency map Frame averaging (loops only) Flash suppression CFM display threshold Spectral invert for color/Doppler 	
477	Anatomical M-Mode on cine loop		
478	4D	 Gray map, colorize Post gain Change display – single, dual, quad sectional or rendered 	
479	Measurements/Calculations		
480	General B-Mode		
481	Depth and distance		
482	Circumference (ellipse/trace)		
483	Area (ellipse/trace)		
484	Volume (ellipsoid)		
485	% Stenosis (area or diameter)		
486	Angle between two lines		
487	Dual B-mode capability		
488	General M-Mode		
489	M-Depth		
490	Distance		
491	Time		
492	Slope		
493 494	Heart rate General Doppler measurements/calculations		
494	Velocity		
496	Time		
497	A/B ratio (velocities/frequency ratio)		
498	PS (Peak Systole)		
499	ED (End Diastole)		
500	PS/ED (PS/ED Ratio)		
501	ED/PS (ED/PS Ratio)		
502	AT (Acceleration Time)		
503	ACCEL (Acceleration)		
504	TAMAX (Time Averaged Maximum Velocity)		
505	Volume flow (TAMEAN and vessel area)		
506	Heart rate		
507	PI (Pulsatility Index)		
508	RI (Resistivity Index)		
509	Real-time Doppler Auto Measurements/Calculations		
510	PS (Peak Systole) ED (End Diastole)		
511 512	MD (Minimum Diastole)		
513	PI (Pulsatility Index)		
514	RI (Resistivity Index)		
515	AT (Acceleration Time)		
	1		

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516	ACC (Acceleration)		
517	PS/ED (PS/ED Ratio)		
518	ED/PS (ED/PS Ratio)		
519	HR (Heart Rate)		
520	TAMAX (Time Averaged Maximum velocity)		
521	PVAL (Peak Velocity value)		
522	Volume flow (TAMEAN and vessel area)		
523	Abdominal measurements/calculations		
524	Shear Elasto velocity		
525	Shear Elasto stiffness		
526	Attenuation rate		
527	Attenuation coefficient		
528	Summary reports		
529	Small Parts measurements/calculations		
530	Breast Lesion		
531	Thyroid		
532	Parathyroid		
533	Lymph Node		
534	Nodule		
535	Isthmus AP		
536	Shear Elasto velocity		
537	Shear Elasto stiffness		
538	Summary reports		
539	OB measurements/calculations		
540	Gestational age by	 GS (Gestational Sac) CRL (Crown Rump Length) FL (Femur Length) BPD (Biparietal Diameter) AC (Abdominal Circumference) HC (Head Circumference) APTD x TTD (Anterior/Posterior Trunk Diameter by Transverse Trunk Diameter) FTA (Fetal Trunk Cross-sectional Area) HL (Humerus Length) BD (Binocular Distance) FT (Foot Length) OFD (Occipital Frontal Diameter) TAD (Transverse Abdominal Diameter) TCD (Transverse Cerebellum Diameter) THD (Thorax Transverse Diameter) TIB (Tibia Length) ULNA (Ulna Length) OOD (Outer Orbital Diameter) IOD (Inner Orbital Diameter) FIB (Fibula length) Radius (Radius length) LV (Lateral Ventricle width) (= SL) 	
541	Estimated Fetal Weight (EFW) by:	• AC, BPD • AC, BPD, FL • AC, BPD, FL, HC • AC, FL • AC, FL • AC, FL, HC • AC, HC • BPD, APTD, TTD, FL • BPD, APTD, TTD, SL	
542	Fetal graphical trending		
543	Growth percentiles		
544	Multi-gestational calculations (4)		
545	Fetal qualitative description (anatomical survey)		
546	Fetal environmental description (biophysical profile)		
547	Programmable OB tables		
548	Over 20 selectable OB calculations		
549	Expanded worksheets		
550	Summary Reports		

551	OB Calculations and ratios
552	FL/BPD
553	FL/AC
554	FL/HC
555	HC/AC
556	CI (Cephalic Index)
557	AFI (Amniotic Fluid Index)
558	CTAR (Cardio-Thoracic Area Ratio)
	Measurements/calculations by: Alexander, ASUM, ASUM 2001, Bahlmann, Baschat, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chervenak, Chitty, Doubilet, Ebing, Eik-Nes Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kramer, Kurmanavicius, Kurtz, Mari, Mayden, Mercer, Merz, Moore, Nelson, Osaka University, Paris, Pexsters, Rempen, Robinson, Shepard, Shepard/Warsoff, Sonek, Tokyo University, Tokyo/Shinozuka, WHO, Williams, Yarkoni
560	OB measure assistant
561	Allows automatic measurement of BPD, HC, FL and AC
	User editable
563	SonoNT and SonoIT
564	SonoNT measures the contour detection of the NT border
565	SonolT is a system supported measurement for Intracranial Translucency
566	GYN measurements/calculations
567	Right ovary length, width, height
568	Left ovary length, width, height
569	Uterus length, width, height
570	Cervix length, trace
571	Ovarian volume
572	ENDO (Endometrial thickness)
573	Ovarian RI
574	Uterine RI
575	Follicular measurements
576	Fibroid measurements
577	Qualitative description (anatomical survey)
578	Mean Uterine Artery (Gomez) Doppler Measurement
579	Summary reports
580	Vascular measurements/calculations
581	SYS DCCA (Systolic Distal Common Carotid Artery)
582	DIAS DCCA (Diastolic Distal Common Carotid Artery)
583	SYS MCCA (Systolic Mid Common Carotid Artery)
584	DIAS MCCA (Diastolic Mid Common Carotid Artery)
	SYS PCCA (Systolic Proximal Common Carotid Artery)
586	DIAS PCCA (Diastolic Proximal Common Carotid Artery)
587	SYS DICA (Systolic Distal Internal Carotid Artery)
588	DIAS DICA (Systolic Distal Internal Carotid Artery)
	SYS MICA (Systolic Mid Internal Carotid Artery)
590	DIAS MICA (Diastolic Mid Internal Carotid Artery) SVS DICA (Systalia Province Internal Carotid Artery)
	SYS PICA (Systolic Proximal Internal Carotid Artery)
592	DIAS PICA (Diastolic Proximal Internal Carotid Artery)
593	SYS DECA (Systolic Distal External Carotid Artery)
594	DIAS DECA (Diastolic Distal External Carotid Artery)
	SYS PECA (Systolic Proximal External Carotid Artery)
596	DIAS PECA (Diastolic Proximal External Carotid Artery)
597	VERT (Systolic Vertebral Velocity)
598	SUBCLAV (Systolic Subclavian Velocity) Auto IMT (Option)
	Summary reports Urological measurements/calculations
	Bladder volume
602	Prostate volume
603	Left/right renal volume
604	Generic volume
605	Post-void bladder volume
606	
607	Pelvic floor measurements Summany reports
608	Summary reports TCD measurements/calculations
	TCD measurements/calculations MCA, ACA, PCA, ICA
	AComA, PCA, ICA AComA, PCom A
611	
612	Vert

613	Basilar		
614	MCA/ICA Ratio		
	Summary reports		
	Pediatric and Neonatal measurements/calculations		
617	Hip angle		
618	Hip orientation		
	Summary reports		
	Probes (All Optional)		
	6S-D, sector probe		
622	Applications	Pediatric cardiac, pediatric abdomen	
623	Bandwidth	2.0 – 8.0 MHz	
624	Number of elements	96	
625	Field of view (max.)	115°	
626	Physical foot print	15 x 9 mm	
627	B-Mode frequency	4.0, 4.2, 5.0, 5.5, 6.5 MHz	
628	Harmonic frequency	4.7, 4.9, 5.3, 5.7, 6.1, 6.3 MHz	
629	PW Doppler frequency	2.8, 3.1, 3.6, 4.2 MHz	
	Color Doppler frequency	2.7, 3.1, 4.2, 5.0 MHz	
631	6Tc-RS, trans-esophageal probe		
632	Applications	Adult cardiac	
633	Bandwidth	2.0 – 8.0 MHz	
	Number of elements	64	
635	Field of view (max.)	90°	
	Physical foot print	37 x 13 x 10 mm	
637	B-Mode frequency	5.0, 6.0, 6.5 MHz	
638	Harmonic frequency	6.0 MHz	
639	PW Doppler frequency	3.1, 3.6, 4.2, 5.0, 6.3 MHz	
640 641	Color Doppler frequency BE9CS-D	3.3, 4.1, 4.7, 5.5 MHz	
	Applications	Urology	
042	Applications	Single angle, disposable (E8387M);	
643	Biopsy guide	Single angle, disposable (E6387MA)	
644	Bandwidth	3.0 - 12.0 MHz	
645	Number of elements	64	
646	Field of view (max.)	133°	
647	Physical foot print	19 x 19 mm	
648	B-Mode frequency	6.0, 7.0, 8.0, 9.0 MHz	
649	Harmonic frequency	7.0, 8.0, 9.0, 10.0 MHz	
650	PW Doppler frequency	4.2, 5.0, 6.3 MHz	
651	Color Doppler frequency	4.3, 6.3, 8.2 MHz	
652	C1-6-D, XDclear™ convex probe		
653	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal	
654	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4917VB)	
655	Bandwidth	1.0 – 6.0 MHz	
656	Number of elements	192	
657	Field of view (max.)	80°	
658	Physical foot print	67 x 11 mm	
659	B-Mode frequency	2.0, 2.5, 3.0, 4.0 MHz	
660	Harmonic frequency	1.5, 2.5, 3.0, 4.5, 6.0, 6.5 MHz	
661	PW Doppler frequency	1.7, 2.1, 2.5, 3.6 MHz	
662	Color Doppler frequency	1.8, 2.1, 2.5, 2.8, 3.0 MHz	
663	C1-6VN-D, VNav inside XDclear convex probe		
664	VNav sensor inside probe for Volume Navigation tracking without sensor cables	Abdaman OD/GVN nadiatria assistanti assistanti assistanti	
665	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal	
666	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4917VB)	
667	Bandwidth	1.0 – 6.0 MHz	
668	Number of elements	192	
669	Field of view (max.)	80°	
670	Physical foot print	67 x 11 mm	
671	B-Mode frequency	2.0, 2.5, 3.0, 4.0 MHz	
672	Harmonic frequency	1.5, 2.5, 3.0, 4.5, 6.0, 6.5 MHz	
673	PW Doppler frequency Color Doppler frequency	1.7, 2.1, 2.5, 3.6 MHz	
674	Color Doppier frequency	1.8, 2.1, 2.5, 2.8, 3.0 MHz	

67F	C2-7-D, micro convex biopsy probe	
675 676	Applications	Abdomen, pediatric
0/0	Applications	Multi-angle, disposable with a reusable bracket (H40482LK),
677	Biopsy guide	Multi-Angle, reusable stainless bracket (H40482LL)
678	Bandwidth	1.0 – 6.0 MHz
679	Number of elements	144
680	Field of view (max.)	110°
681	Physical foot print	31 x 10 mm
682	B-Mode frequency	2.5, 4.0, 6.0 MHz
683	Harmonic frequency	3.0, 4.0, 5.0, 6.0 MHz
684	PW Doppler frequency	1.8, 2.1, 2.5, 3.1 MHz
685	Color Doppler frequency	2.1, 2.4, 3.1, 3.7 MHz
686	C2-7-VN-D, VNav inside XDclear convex probe	2.1, 2.4, 3.1, 3.7 PHZ
687	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
688	Applications	Abdomen, pediatric
	··	Multi-angle, disposable with a reusable bracket (H40482LK),
689	Biopsy guide	Multi-Angle, reusable stainless bracket (H40482LL)
690	Bandwidth	1.0 - 6.0 MHz
691	Number of elements	144
692	Field of view (max.)	110°
693	Physical foot print	31 x 10 mm
694	B-Mode frequency	2.5, 4.0, 6.0 MHz
695	Harmonic frequency	3.0, 4.0, 5.0, 6.0 MHz
696	PW Doppler frequency	1.8, 2.1, 2.5, 3.1 MHz
697	Color Doppler frequency	2.1, 2.4, 3.1, 3.7 MHz
	C2-9-D, XDclear convex probe	<u>,</u>
	<u> </u>	Abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal
699	Applications	transcranial, general musculoskeletal
700	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BA)
701	Bandwidth	2.0 – 9.0 MHz
702	Number of elements	192
703	Field of view (max.)	80°
704	Physical foot print	52 x 9 mm
705	B-Mode frequency	3.0, 4.5, 6.0, 7.0 MHz
706	Harmonic frequency	2.5, 3.5, 5.0, 7.0, 9.0 MHz
707	PW Doppler frequency	2.5, 3.1, 3.6, 4.2, 5.0, 6.3 MHz
708	Color Doppler frequency	3.1, 4.2, 4.6, 5.4 MHz
709	C2-9-VN-D, VNav inside XDclear convex probe	
710	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
711	Applications	Abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal
/ 11	Applications	transcranial, general musculoskeletal
712	Biopsy guide	Multi-angle, disposable with a reusable bracket (H4913BA)
713	Bandwidth	2.0 – 9.0 MHz
714	Number of elements	192
715	Field of view (max.)	80°
	Physical foot print	52 x 9 mm
717	B-Mode frequency	3.0, 4.5, 6.0, 7.0 MHz
	Harmonic frequency	2.5, 3.5, 5.0, 7.0, 9.0 MHz
719	PW Doppler frequency	2.5, 3.1, 3.6, 4.2, 5.0, 6.3 MHz
	Color Doppler frequency	3.1, 4.2, 4.6, 5.4 MHz
721	C3-10-D, XDclear micro convex probe	
722	Applications	Abdomen, neonatal, pediatric, peripheral vascular, neonatal transcranial,
		small part
723	Bandwidth	2.0 – 11.0 MHz
724	Number of elements	192
725	Field of view (max.)	95°
726	Physical foot print	26 x 5 mm
727	B-Mode frequency	4.0, 6.0, 8.0 MHz
728	Harmonic frequency	6.0, 8.0, 10.0 MHz
729	PW Doppler frequency	3.1, 4.2, 6.3, 7.1 MHz
730	Color Doppler frequency	3.9, 5.3, 6.6 MHz
	IC5-9-D, micro convex probe	
732	Applications	OB/GYN, urology
733	Biopsy guide	Single angle, disposable with a disposable bracket (E8385MJ)
	· · · ·	or reusable bracket (H40412LN)

734	Bandwidth	3.0 – 10.0 MHz
735	Number of elements	192
736	Field of view (max.)	180°
737	Physical foot print	26 x 6 mm
738	B-Mode frequency	4.5, 5.0, 5.5, 6.0, 7.0, 8.0 MHz
739	Harmonic frequency	6.0, 6.5, 7.0, 9.0 MHz
740	PW Doppler frequency	3.6, 4.2, 5.0 MHz
741	Color Doppler frequency	4.6, 5.9, 6.7 MHz
742	L2-9-D, XDclear linear probe	10,000,000
		Peripheral vascular, pediatric, abdomen, OB/GYN, general
743	Applications	musculoskeletal, superficial musculoskeletal, neonatal
7 13	Applications	transcranial and small parts inculding breast, thyroid and scrotal
744	Biopsy guide	Multi-angle, disposable with a reusable bracket (H44901AM)
745	Bandwidth	2.0 – 10.0 MHz
746	Number of elements	192
747	Field of view (max.)	44 mm
748	Physical foot print	53 x 14 mm
749	B-Mode frequency	4.0, 4.5, 5.0, 6.0, 7.0 MHz
750	Harmonic frequency	5.0, 6.0, 7.0, 8.0, 9.0, 9.4 MHz
751	PW Doppler frequency	2.5, 2.8, 3.1, 3.6, 4.2, 5.0 MHz
752	Color Doppler frequency	3.1, 4.0, 4.6, 5.3 MHz
753	L2-9VN-D, VNav inside XDclear linear probe	
754	VNav sensor inside probe for Volume Navigation tracking without sensor cables	
		Peripheral vascular, pediatric, abdomen, OB/GYN, general
755	Applications	musculoskeletal, superficial musculoskeletal, neonatal, neonatal
		transcranial and small parts inculding breast, thyroid and scrotal
756	Biopsy guide	Multi-angle, disposable with a reusable bracket (H44901AM)
757	Bandwidth	2.0 – 10.0 MHz
758	Number of elements	192
759	Field of view (max.)	44 mm
760	Physical foot print	53 x 14 mm
761	B-Mode frequency	4.0, 4.5, 5.0, 6.0, 7.0 MHz
762	Harmonic frequency	5.0, 6.0, 7.0, 8.0, 9.0, 9.4 MHz
763	PW Doppler frequency	2.5, 2.8, 3.1, 3.6, 4.2, 5.0 MHz
764	Color Doppler frequency	3.1, 4.0, 4.6, 5.3 MHz
765	L3-12-D, linear probe	012, 110, 110, 010 1 1112
7 0 3		
1		IAhdomen OR general musculoskeletal
766	Applications	Abdomen, OB, general musculoskeletal,
766	Applications	superficial musculoskeletal, neonatal, neonatal transcranial, small parts,
		superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular
767	Biopsy guide	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA)
767 768	Biopsy guide Bandwidth	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz
767 768 769	Biopsy guide Bandwidth Number of elements	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256
767 768 769 770	Biopsy guide Bandwidth Number of elements Field of view (max.)	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm
767 768 769 770 771	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm
767 768 769 770 771 772	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz
767 768 769 770 771 772 773	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz
767 768 769 770 771 772 773 774	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz
767 768 769 770 771 772 773 774 775	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz
767 768 769 770 771 772 773 774	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz
767 768 769 770 771 772 773 774 775 776	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial
767 768 769 770 771 772 773 774 775 776	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid
767 768 769 770 771 772 773 774 775 776 7777	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 – 20.0 MHz
767 768 769 770 771 772 773 774 775 776 7777	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 – 20.0 MHz 192
767 768 769 770 771 772 773 774 775 776 777 778 779	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.)	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 – 20.0 MHz 192 26 mm
767 768 769 770 771 772 773 774 775 776 7777	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 – 20.0 MHz 192
767 768 769 770 771 772 773 774 775 776 777 778 779	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.)	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 – 20.0 MHz 192 26 mm 26 x 2 mm 12.0, 16.0, 21.0 MHz
767 768 769 770 771 772 773 774 775 776 777 778 779 780 781	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.) Physical foot print	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 – 20.0 MHz 192 26 mm 26 x 2 mm
767 768 769 770 771 772 773 774 775 776 777 778 779 780 781	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 – 20.0 MHz 192 26 mm 26 x 2 mm 12.0, 16.0, 21.0 MHz
767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency Harmonic frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 – 20.0 MHz 192 26 mm 26 x 2 mm 12.0, 16.0, 21.0 MHz 12.0, 18.0, 24.0 MHz
767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency Color Doppler frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 – 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 – 20.0 MHz 192 26 mm 26 x 2 mm 12.0, 16.0, 21.0 MHz 12.0, 18.0, 24.0 MHz 8.3, 10.0, 12.5 MHz
767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency Harmonic frequency PW Doppler frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 - 20.0 MHz 192 26 mm 26 x 2 mm 12.0, 16.0, 21.0 MHz 12.0, 18.0, 24.0 MHz 8.3, 10.0, 12.5 MHz 9.2, 11.2, 12.2 MHz
767 768 769 770 771 772 773 774 775 776 777 788 779 780 781 782 783 784 785	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency Color Doppler frequency PW Doppler frequency Color Doppler frequency L8-18i-D, linear probe	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 - 20.0 MHz 192 26 mm 26 x 2 mm 12.0, 16.0, 21.0 MHz 12.0, 18.0, 24.0 MHz 8.3, 10.0, 12.5 MHz 9.2, 11.2, 12.2 MHz Small parts, peripheral vascular, neonatal, neonatal transcranial, general
767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency Color Doppler frequency	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 - 20.0 MHz 192 26 mm 26 x 2 mm 12.0, 16.0, 21.0 MHz 12.0, 18.0, 24.0 MHz 8.3, 10.0, 12.5 MHz 9.2, 11.2, 12.2 MHz
767 768 769 770 771 772 773 774 775 776 777 788 779 780 781 782 783 784 785 786	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency Color Doppler frequency Pub Doppler frequency Color Doppler frequency L8-18i-D, linear probe Applications	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 - 20.0 MHz 192 26 mm 26 x 2 mm 12.0, 16.0, 21.0 MHz 12.0, 18.0, 24.0 MHz 8.3, 10.0, 12.5 MHz 9.2, 11.2, 12.2 MHz Small parts, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal, superficial musculoskeletal, intraoperative
767 768 769 770 771 772 773 774 775 776 777 788 779 780 781 782 783 784 785	Biopsy guide Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency L6-24-D, linear probe Applications Bandwidth Number of elements Field of view (max.) Physical foot print B-Mode frequency Harmonic frequency PW Doppler frequency Color Doppler frequency Color Doppler frequency PW Doppler frequency Color Doppler frequency L8-18i-D, linear probe	superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular Multi-angle, disposable with a reusable bracket (H78652PA) 3.0 - 11.0 MHz 256 51 mm 51 x 4 mm 6.0, 8.0, 10.0, 12.0 MHz 4.0, 6.0, 8.0, 10.0, 12.0 MHz 4.2, 5.0, 6.3, 8.3 MHz 4.3, 4.9, 5.4, 6.1, 7.2, 8.0 MHz General musculoskeletal, superficial musculoskeletal, pediatrics, thyroid 6.0 - 20.0 MHz 192 26 mm 26 x 2 mm 12.0, 16.0, 21.0 MHz 12.0, 18.0, 24.0 MHz 8.3, 10.0, 12.5 MHz 9.2, 11.2, 12.2 MHz Small parts, peripheral vascular, neonatal, neonatal transcranial, general

790	Field of view (max.)	25 mm
790	Physical foot print	35 x 10 mm
792	B-Mode frequency	7.0, 9.0, 13.0, 16.0 MHz
793	Harmonic frequency	14.0, 16.0, 18.0 MHz
794	PW Doppler frequency	5.0, 6.3, 7.1, 8.3 MHz
795	Color Doppler frequency	6.3, 6.7, 9.6, 10.5 MHz
796	M5Sc-D, XDclear sector probe	0.3, 0.7, 3.0, 10.3 11112
797	Applications	Adult cardiac, pediatric cardiac, adult cephalic, abdominal
798	Biopsy guide	Multi-angle, disposable with a reusable bracket (H45561FC)
799	Bandwidth	1.0 – 5.0 MHz
800	Number of elements	288
801	Field of view (max.)	120°
802	Physical foot print	28 x 17 mm
803	B-Mode frequency	2.0, 2.5, 3.5, 4.5 MHz
804	Harmonic frequency	2.4, 3.0, 3.2, 3.3, 3.7, 4.0, 4.5 MHz
805	PW Doppler frequency	1.6, 1.7, 1.8, 1.9, 2.1, 2.5, 3.1, 3.6 MHz
806	Color Doppler frequency	1.7, 1.8, 1.9, 2.2, 2.4, 2.5, 3.0, 3.1, 3.7, 3.8 MHz
807	ML6-15-D, matrix array linear probe	1.7, 1.0, 1.3, 2.2, 2.4, 2.3, 3.0, 3.1, 3.7, 3.0 11112
807	matrix array inlear probe	
808	Applications	Abdomen, peripheral vascular, neonatal, pediatric, neonatal transcranial, general musculoskeletal, superficial musculoskeletal and small parts inculding breast, thyroid and scrotal
800	Biopsy guide	Multi-angle, disposable with a reusable bracket (H40432LJ)
809 810	Bandwidth	4.0 – 16.0 MHz
810	Number of elements	1008
812	Field of view (max.)	50 mm
813	Physical foot print	50 x 10 mm
814	B-Mode frequency	7.0, 9.0, 10.0, 11.0, 12.0, 15.0 MHz
815	Harmonic frequency	10.0, 12.0, 14.0, 15.0 MHz
816	PW Doppler frequency	5.0, 6.3, 8.3 MHz
817	Color Doppler frequency	5.1, 6.1, 7.3, 8.2, 9.2, 10.3, 11.4, 12.4 MHz
818	P2D, CW split crystal probe	3.1, 0.1, 7.3, 8.2, 9.2, 10.3, 11.4, 12.4 MIZ
819	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
820	Frequency	2.1 MHz
821	P6D, CW split crystal probe	Z.1 I'II IZ
822	Applications	Adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic
823	Frequency	6.3 MHz
824	RAB6-D, convex volume probe	0.3 11112
825	Applications	Abdomen, OB/GYN, pediatric, neonatal
826	Biopsy guide	Single angle, reusable bracket (H46701AE)
827	Bandwidth	2.0 – 8.0 MHz
828	Number of elements	192
	Field of view (max.)	80°
830	Physical foot print	62 x 34 mm
831	B-Mode frequency	3.5, 5.0, 8.0 MHz
832	Harmonic frequency	4.0, 5.0, 6.5, 8.0 MHz
833	PW Doppler frequency	3.1, 4.2, 5.0 MHz
834	Color Doppler frequency	2.8, 3.5, 3.8 MHz
835	RIC5-9-D, convex volume probe	الدن عني عني الله
836	Applications	OB/GYN, urology
837	Biopsy guide	Single angle, reusable (H46721R)
838	Bandwidth	3.0 – 10.0 MHz
839	Number of elements	192
840	Field of view (max.)	180°
841	Physical foot print	32 x 27 mm
842	B-Mode frequency	5.0, 5.5, 6.0, 6.5, 7.0, 8.0 MHz
843	Harmonic frequency	6.0, 6.5, 7.0, 9.0 MHz
844	PW Doppler frequency	3.6, 4.2, 5.0 MHz
845	Color Doppler frequency	4.3, 6.1, 7.3 MHz
040	External Inputs and outputs	+.J, V.1, 1.J I*IПZ
846	(not including on-board peripherals)	
0.47	HDMI	
847	Ethernet	
848 849	Multiple USB 3.0 ports	
850	Safety Conformance	

851	The LOGIQ Fortis is:		
852	Classified to UL 60601-1 by a Nationally Recognized Test Lab		
853	Certified to CAN/CSA-C22.2 No. 60601.1-M90 by an SCC accredited test lab		
854	CE Marked to EU Medical Device Regulation MDR 2017/745		
855	Compliant to Council Directive 2011/65/EU for RoHS		
856	Conforms to the following standards for safety (including national deviations)	EMC Emissions group 1 class A device requirements as per sub clause 4.2 of CISPR 11 IEC 60601-1 Medical electrical equipment – Part 1: General requirements for safety IEC 60601-1-2 Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic disturbance – Requirements and tests IEC 60601-1-6 Medical electrical equipment Part 1-6 general requirements for basic safety and essential performance – Collateral standard: usability IEC 60601-2-37 Medical electrical equipment – Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment IEC 62366 Medical devices – Application of usability engineering to medical devices IEC62366-1 Medical device software – Software life-cycle processes ISO 10993-1 Biological evaluation of medical devices – Part 1: Evaluation and testing within a risk management process	

857	Supplement: cardiac measurements/calculations		
858	B-Mode measurements		
		Aortic Root Diameter (Ao Root Diam)	
		Aortic Arch Diameter (Ao Arch Diam)	
859	Aorta	Ascending Aortic diameter (Ao Asc)	
839	Aoita	Descending Aortic Diameter (Ao Desc Diam)	
		Aorta Isthmus (Ao Isthmus)	
		Aorta (Ao st junct)	
		Aortic Valve Cusp Separation (AV Cusp)	
860	Aortic valve	Aortic Valve Area Planimetry	
000	Aortic valve	(AVA Planimetry)	
		• (Trans AVA)	
		• Left Atrium Diameter (LA Diam)	
		• LA Length (LA Major)	
		• LA Width (LA Minor)	
861	Left atrium	 Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao ratio) 	
001	Leit atilum	• Left Atrium Area (LAA(d), LAA(s))	
		 Left Atrium Volume, Single Plane, Method of Disk (LAEDV A2C, LAESV 	
		A2C) (LAEDV A4C, LAESV A4C), (LAEDV A-L, LAEDV Index A-L, LAESV A-L,	
		LAESV Index A-L)	
		• Left Ventricle Mass (LVPWd, LVPWs)	
		• Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)	
		 Left Ventricle Internal Diameter (LVIDd, LVI Ds) Left Ventricle Length 	
		(LVLd, LVLs)	
		 Left Ventricle Outflow Tract Diameter (LVOT Diam) 	
		 Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs) 	
		• Left Ventricle Length (LV Major)	
862	Left ventricle	Left Ventricle Width (LV Minor)	
		 Left Ventricle Outflow Tract Area (LVOT) 	
		• Left Ventricle Area, Two Chamber/Four Chamber/Short Axis (LVA (d),	
		LVA (s))	
		• Left Ventricle Endocardial Area, Width (LVA (d), LVA(s))	
		• Left Ventricle Epicardial Area, Length (LVAepi (d), LVAepi (s))	
		Left Ventricle Mass Index (LVPWd, LVPWs)	
		• Ejection Fraction, Teichholz/Cube (LVIDd, LVIDs)	
		Loft Ventricle Destarier Well Fractional Chartening (LVDWd LVDWs)	
		 Left Ventricle Posterior Wall Fractional Shortening (LVPWd, LVPWs) Left Ventricle Stroke Index, Teichholz/Cube (LVIDd, LVIDs and Body 	
		Surface Area)	
	Left ventricle continued	Left Ventricle Fractional Shortening (LVIDd, LVIDs) Montaide Standard Melana Trickle (Schick (LVIDd, LVID))	
		Left Ventricle Stroke Volume, Teichholz/Cubic (LVIDd, LVIDs) A few day for the London Single Plane. They Chamber Matthe de Gibbs	
		• Left Ventricle Stroke Index, Single Plane, Two Chamber, Method of Disk	
863		(LVI Dd, LVIDs, LVSd, LVSs)	
		• Left Ventricle Stroke Index, Single Plane, Four Chamber, Method of Disk	
		(LVI Dd, LVIDs, LVSd, LVSs)	
		• Left Ventricle Stroke Index, Bi-Plane,	
		Bullet, Method of Disk (LVAd, LVAs)	
		• Interventricular Septum (IVS)	
		Left Ventricle Internal Diameter (LVI D) Left Ventricle Restation Mell Thickness (LVI DA)	
		Left Ventricle Posterior Wall Thickness (LVPW)	
		Mitral Valve Annulus Diameter (MV Ann Diam)	
864	Mitral valve	• E-Point-to-Septum Separation (EPSS)	
		Mitral Valve Area Planimetry (MVA Planimetry)	
		Pulmonic Valve Area (PV Planimetry)	
005		Pulmonic Valve Annulus Diameter	
865	Pulmonic valve	(PV Annulus Diam)	
		Pulmonic Diameter (Pulmonic Diam)	
		Right Atrium Diameter, Length (RAD Ma)	
		Right Atrium Diameter, Width (RAD Mi)	
		• Right Atrium Area (RAA)	
866	Right atrium	Right Atrium Volume, Single Plane, Method of Disk (RAAd)	
		Right Atrium Volume, Systolic, Single Plane, Method of Disk	
		(RAAs)	
		(to a roy	

	Τ	Right Ventricle Outflow Tract Area (RVOT Planimetry)
		Left Pulmonary Artery Area (LPA Area)
		Right Pulmonary Artery Area (RPA Area) Pight Ventricle Internal Diameter (RVIDd RVIDe)
		Right Ventricle Internal Diameter (RVIDd, RVIDs) Pight Ventricle Diameter Length (RVD Ma)
~~7		Right Ventricle Diameter, Length (RVD Ma) Right Ventricle Diameter, Width (RVD Mi)
367	Right ventricle	Right Ventricle Diameter, Width (RVD Mi) Right Ventricle Wall Thickness (RVAWd, RVAWs)
		Right Ventricle Wall Thickness (RVAWd, RVAWs) Right Ventricle Outfley Treet Dispersions (RVOT Dispers)
		Right Ventricle Outflow Tract Diameter (RVOT Diam) Active (LDA)
		Left Pulmonary Artery (LPA)
		Main Pulmonary Artery (MPA) Control (MPA)
	 	• Right Pulmonary Artery (RPA)
		Systemic Vein Diameter (Systemic Diam)
		Patent Ductus Arterosis Diameter (PDA Diam)
868	System inferior vena cava	Pericard Effusion (PEs)
00	System interior veria cava	Patent Foramen Ovale Diameter (PFO Diam)
		Ventricular Septal Defect Diameter (VSD Diam)
		Interventricular Septum (IVS) Fractional Shortening (IVSd, IVSs)
369	Tricuspid valve	Tricuspid Valve Area (TV Panimetry)
כסנ	'	Tricuspid Valve Annulus Diameter (TV Annulus Diam)
370	M-Mode measurements	
		Aortic Root Diameter (Ao Root Diam)
		Aortic Valve
371	Aorta	Aortic Valve Diameter (AV Diam)
0.70		Aortic Valve Cusp separation (AV Cusp)
		Aortic Valve Ejection Time (LVET)
872	Left atrium	Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio)
	Leit atrium	Left Atrium Diameter (LA Diam)
		Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds)
		• Left Ventricle Internal Diameter (LVIDd, LVI Ds)
		• Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs)
777	6 constitu	• Left Ventricle Ejection Time (LVET)
373	Left ventricle	• Left Ventricle Pre-Ejection Period (LVPEP)
		Interventricular Septum (IVS)
		• Left Ventricle Internal Diameter (LVI D)
		Left Ventricle Posterior Wall Thickness (LVPW)
		• E-Point-to-Septum Separation (EPSS)
		Mitral Valve Leaflet Separation (D-E Excursion)
		Mitral Valve Anterior Leaflet Excursion (D-E Excursion)
374	Mitral valve	Mitral valve D-E Slope (D-E Slope)
		• Mitral Valve E-F Slope (E-F Slope)
		Mitral Annular Plane Systolic Excursion (MAPSE)
875	Pulmonic valve	QRS Complex to End of Envelope (Q-PV close)
313	Pullionic vaive	Right Ventricle Internal Diameter (RVIDd, RVIDs)
		Right Ventricle Internal Diameter (RVIDd, RVIDs) Right Ventricle Wall Thickness (RVAWd, RVAWs)
776	Right ventricle	Right Ventricle Wall Inickness (RVAWG, RVAWS) Right Ventricle Outflow Tract Diameter (RVOT Diam)
376	Right ventricie	Right Ventricle Outflow Tract Diameter (RVOT Diam) Right Ventricle Ejection Time (RVET)
		· ·
	<u> </u>	• Right Ventricle Pre-Ejection Period (RVPEP)
877	System	Pericard Effusion (PE (d))
878	Tricuspid valve	• QRS Complex to End of Envelope (Q-TV close)
~10	TTTCUSDIG VOIVC	 Tricuspid Annular Plane Systolic Excursion (TAPSE)

879	Doppler Mode measurements	
1		Aortic Insufficiency Mean Pressure Gradient (AR Trace)
		Aortic Insufficiency Peak Pressure Gradient (AR Vmax)
		Aortic Insufficiency End Diastole Pressure Gradient (AR Trace)
		Aortic Insufficiency Mean Velocity (AR Trace)
		Aortic Insufficiency Velocity Time Integral (AR Trace)
	Aortic valve	Aortic Valve Mean Velocity (AV Trace)
880		
000	AOLIC Valve	Aortic Valve Velocity Time Integral (AV Trace) Aortic Valve Mean Pressure Gradient (AV Trace)
		Aortic Valve Pleah Pressure Gradient (AV Trace) Aortic Valve Peak Pressure Gradient (AR Vmax)
		Aortic Insufficiency Peak Velocity (AR Vmax) Aortic Insufficiency Ford Printed Articles (AR Topse)
		Aortic Insufficiency End-Diastolic Velocity (AR Trace) Aortic Male Road Male (Al Al Al Anna)
		Aortic Valve Peak Velocity (AV Vmax)
		Aortic Valve Peak Velocity at Point E (AV Vmax)
		Aorta Proximal Coarctation (Coarc Pre-Duct)
		Aorta Distal Coarctation (Coarc Post-Duct)
		Aortic Valve Insufficiency Pressure Half Time (AR PHT)
		Aortic Valve Flow Acceleration (AV Trace)
004	A setional to a setion of	Aortic Valve Pressure Half Time (AV Trace)
881	Aortic valve continued	Aortic Valve Acceleration Time (AV Acc Time)
		Aortic Valve Deceleration Time (AV Dec Time)
		Aortic Valve Ejection Time (AVET)
		Aortic Valve Acceleration to Ejection Time Ratio (AV Acc Time, AVET)
		Aortic Valve Area(VTI): AVA (Vmax)
		Left Ventricle Outflow Tract Peak Pressure Gradient (LVOT Vmax)
		Left Ventricle Outflow Tract Peak Velocity (LVOT Vmax)
		Left Ventricle Outflow Tract Peak Velocity (LVOT Vinax) Left Ventricle Outflow Tract Mean Pressure Gradient (LVOT Trace)
882	Left ventricle	Left Ventricle Outflow Tract Mean Plessure Gradient (LVOT Trace) Left Ventricle Outflow Tract Mean Velocity (LVOT Trace)
		* * * * * * * * * * * * * * * * * * * *
		Left Ventricle Outflow Tract Velocity Time Integral (LVOT Trace) Left Ventricle Ejection Time (LVET)
		• Left Ventricle Ejection Time (LVET)
		• E' Early diastolic mitral valve annular velocity (E')
		• E' Avg Averaged early diastolic mitral valve annular velocity
		(E' Avg)
	Mitral valve	• E' Lat Early diastolic mitral valve lateral annular velocity (E' Lat)
		E' Medial Early diastolic mitral valve medial annular velocity
		(E' Medial)
		• E' Sept Early diastolic mitral
883		Mitral inflow E velocity to E' ratio (E/E')
		Mitral inflow E velocity to E' Avg ratio (E/E' Avg)
		Mitral inflow E velocity to E' Lat ratio (E/E' Lat)
		Medial Mitral inflow E velocity to E' Medial ratio (E/E')
		Mitral inflow E velocity to E' Sept ratio (E/E' Sept)
		Mitral Valve Regurgitant Flow Acceleration (MR Trace)
		Mitral Valve Regurgitant How Acceleration (MR Trace) Mitral Valve Regurgitant Mean Velocity (MR Trace)
		Mitral Regurgitant Mean Pressure Gradient (MR Trace)
		Mitral Regurgitant Mean Pressure Gradient (MR Trace) Mitral Regurgitant Velocity Time Integral (MR Trace)
	Mitral valve continued	·
		Mitral Valve Mean Velocity (MV Trace) Mitral Valve Valority Time Integral (MV Trace)
		Mitral Valve Velocity Time Integral (MV Trace) Mitral Valve Macon Processing Creations (MV Trace)
		Mitral Valve Mean Pressure Gradient (MV Trace) Mitral Responsibility to Proceedings (MV Trace)
884		Mitral Regurgitant Peak Pressure Gradient (MR Vmax)
		Mitral Valve Peak Pressure Gradient (MV Vmax)
		Mitral Regurgitant Peak Velocity (MR Vmax)
		Mitral Valve Peak Velocity (MV Vmax)
		Mitral Valve Velocity Peak A (MV A Velocity)
		Mitral Valve Velocity Peak E (MV E Velocity)

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		Mitral Valve Area According to PHT (MV PHT)
		Mitral Valve Flow Deceleration (MV DecT)
		Mitral Valve Pressure Half Time (MV PHT)
		Mitral Valve Flow Acceleration (MV AccT)
		Mitral Valve E-Peak to A-Peak Ratio (A-C and D-E) (MV E/ARatio)
		, , , , , , , , , , , , , , , , , , , ,
		Mitral Valve Acceleration Time
885	Mitral valve continued	• (MV Acc Time)
000	Third valve continued	Mitral Valve Deceleration Time (MV Dec Time)
		Mitral Valve Ejection Time ((MVET)
		Mitral Valve A-Wave Duration (MV A Dur)
		Mitral Valve Time to Peak (MV TTP)
		Mitral Valve Acceleration Time/Deceleration Time Ratio
		·
		(MVAcc/Dec Time)
		Stroke Volume Index by Mitral Flow (MVA Planimetry, MVTrace)
		Pulmonic Insufficiency Peak Pressure Gradient (PR Vmax)
		Pulmonic Insufficiency End-Diastolic Pressure Gradient (PRTrace)
		Pulmonic Valve Peak Pressure Gradient (PV Vmax)
		· · · · ·
886	Pulmonic Valve	Pulmonic Insufficiency Peak Velocity (PR Vmax)
		Pulmonic Insufficiency End-Diastolic Velocity (Prend Vmax)
		Pulmonic Valve Peak Velocity (PV Vmax)
1		Pulmonary Artery Diastolic Pressure (PV Trace)
		Pulmonic Insufficiency Mean Pressure Gradient (PR Trace)
		Pulmonic Valve Mean Pressure Gradient (PV Trace)
		Pulmonic Insufficiency Mean Square Root Velocity (PR Trace)
		Pulmonic Insufficiency Velocity Time Integral (PR Trace)
		Pulmonic Valve Mean Velocity (PV Trace)
		Pulmonic Valve Velocity Time Integral (PV Trace)
		Pulmonic Insufficiency Pressure Half Time (PR PHT)
887	Pulmonic valve continued	Pulmonic Valve Flow Acceleration (PV Acc Time)
		Pulmonic Valve Acceleration Time (PV Acc Time)
		Pulmonic Valve Ejection Time (PVET)
		QRS Complex to End of Envelope (Q-to-PV Close)
		Pulmonic Valve Acceleration to Ejection TIme Ratio
		(PV Acc Time, PVET)
		Right Ventricle Outflow Tract Peak Pressure Gradient
		(RVOT Vmax)
		Right Ventricle Outflow Tract Peak Velocity (RVOT Vmax)
000		Right Ventricle Outflow Tract Velocity Time Integral (RVOTTrace)
888	Right ventricle	Right Ventricle Ejection Time (RV Trace)
		Stroke Volume by Pulmonic Flow (RVOT Planimetry, RVOTTrace)
		Right Ventricle Stroke Volume Index by Pulmonic Flow
		(RVOT Planimetry, RVOT Trace)
		Pulmonary Artery Peak Velocity (PV Vmax)
	System	Pulmonary Vein Velocity Peak A (Reverse) (P Vein A)
		, , , , , , , , , , , , , , , , , , , ,
		Pulmonary Vein Peak Velocity (P Vein D, P Vein S) Out of the Peak Velocity (P Vein D, P Vein S)
		Systemic Vein Peak Velocity (PDA Diastolic, PDA Systolic)
		Ventricular Septal Defect Peak Velocity (VSD Vmax)
000		Atrial Septal Defect (ASD Diastolic, ASD Systolic)
889		Pulmonary Vein A-Wave Duration (P Vein A Dur)
		IsoVolumetric Relaxation Time (IVRT)
		IsoVolumetric Contraction Time (IVCT)
		Pulmonary Vein S/D Ratio (P Vein D, P Vein S)
		Ventricular Septal Defect Peak Pressure Gradient (VSD Vmax) Dulmania to Sustamia Flour Petia (On/Os)
		Pulmonic-to-Systemic Flow Ratio (Qp/Qs) Triguesid Requigitant Real Pressure Credient (TD Vmov)
		Tricuspid Regurgitant Peak Pressure Gradient (TR Vmax) Tricuspid Valve Peak Pressure Gradient (TV Vmax)
		Tricuspid Regurgitant Peak Velocity (TR Vmax) Tricuspid Velocity (TR Vmax)
890	Tricuspid valve	Tricuspid Valve Peak Velocity (TV Vmax) Tricuspid Valve Peak Velocity (TV A) (TV
		Tricuspid Valve Velocity Peak A (TV A Velocity)
		Tricuspid Valve Velocity Peak E (TV E Velocity)
		Tricuspid Regurgitant Mean Pressure Gradient (TR Trace)
		Tricuspid Valve Mean Pressure Gradient (TV Trace)
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891		Tricuspid Regurgitant Mean Velocity (TR Trace)
		Tricuspid Regurgitant Velocity Time Integral (TR Trace)
		Tricuspid Valve Mean Velocity (TV Trace)
	Tricuspid valve continued	Tricuspid Valve Velocity Time Integral (TV Trace)
		Tricuspid Valve Time to Peak (TV TTP)
		Tricuspid Valve Ejection Time (TV Acc/Dec Time)
		Tricuspid Valve A-Wave Duration (TV A Dur)
		QRS Complex to End of Envelope (Q-TV Close)
		Tricuspid Valve Pressure Half Time (TV PHT)
		Stroke Volume by Tricuspid Flow (TV Planimetry, TV Trace)
		Tricuspid Valve E-Peak to A-Peak Ratio (TV E/A Velocity)

Proximal Isovelocity Surface Area: Regurgitant Orifice Area (AR Radius)		
893 Aortic valve **Proximal Isovelocity Surface Area: Radius of Aliased Point (AR Radius) Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace) Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (AR Trace) Proximal Isovelocity Surface Area: Aliased Velocity Surface Area: Aliased Velocity Surface Area: Regurgitant Orlince Area (MR Radius) Proximal Isovelocity Surface Area: Regurgitant Orlince Area (MR Radius) Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Vmax) Stroke Volume Volume Flow (MR Vmax) Plant		
893 Aortic valve **Proximal Isovelocity Surface Area: Radius of Aliased Point (AR Radius) Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace) Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (AR Trace) Proximal Isovelocity Surface Area: Aliased Velocity Surface Area: Aliased Velocity Surface Area: Regurgitant Orlince Area (MR Radius) Proximal Isovelocity Surface Area: Regurgitant Orlince Area (MR Radius) Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Vmax) Stroke Volume Volume Flow (MR Vmax) Plant		
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Aortic valve Regurgitant Flow (AR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (AR Trace) Proximal Isovelocity Surface Area: Aliased Velocity (AR Vmax) Proximal Isovelocity Surface Area: Regurgitant Orifice Area (MR Radius) Proximal Isovelocity Surface Area: Regurgitant Orifice Area (MR Radius) Proximal Isovelocity Surface Area: Redus of Aliased Point (MR Radius) Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax) 895 Combination Mode measurements Aortic Valve Area (Ao Root Diam, LVOT Valve Area by Continuity Equation (Ao Root Diam, LVOT Vmax, AV Vmax) Stroke Volume by Aortic Flow (AVA Plate) Cardiac Output by Aortic Flow (AVA Plate) Cardiac Output, Teichholz/Cubic (LVIDd) Cardiac Output, Teichholz/Cubic (LVIDd) Cardiac Output Two Chamber, Single Plate Cardiac Output Two Chamber		
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Regurgitant Volume Flow (AR Trace) Proximal Isovelocity Surface Area: Aliased Velocity (AR Vmax) Proximal Isovelocity Surface Area: Regurgitant Orifice Area (MR Radius) Proximal Isovelocity Surface Area: Regurgitant Orifice Area (MR Radius) Proximal Isovelocity Surface Area: Radius of Aliased Point (MR Radius) Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax) 895 Combination Mode measurements Aortic Valve Area (Ao Root Diam, LVOT Valve Area by Continuity Equation (Ao Root Diam, LVOT Vmax, AV Vmax) 896 Aortic valve Aortic Valve Area by Continuity Equation (Ao Root Diam, LVOT Vmax, AV Trace) Cardiac Output by Aortic Flow (AVA Plan) Aortic Valve Area by Continuity Equation (Ao Root Diam, LVOT Vmax, AV Trace) Cardiac Output, Teichholz/Cubic (LVIDd) Cardiac Output, Teichholz/Cubic (LVIDd) Cardiac Output Two Chamber, Single Plan		
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## Proximal Isovelocity Surface Area: Radius of Aliased Point (MR Radius) Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax) ### Combination Mode measurements Aortic Valve Area (Ao Root Diam, LVOT Vnax, AV Vmax) Aortic Valve Area by Continuity Equation (Ao Root Diam, LVOT Vmax, AV Vmax) Stroke Volume by Aortic Flow (AVA Plar) Cardiac Output by Aortic Flow (AVA Plar) Aortic Valve Area by Continuity Equation (Ao Root Diam, LVOT Vmax, AV Trace) Cardiac Output, Teichholz/Cubic (LVIDd) Cardiac Output Two Chamber, Single Place Cardiac Output Two Chamber, Single Plac		
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894 Mitral valve Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace) Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax) 895 Combination Mode measurements Acrtic Valve Area (Ao Root Diam, LVOT Valve Area by Continuity Equation (Ao Root Diam, LVOT Vmax, AV Vmax) Stroke Volume by Aortic Flow (AVA Plane) Cardiac Output by Aortic Flow (AVA Plane) Aortic Valve Area by Continuity Equation (Ao Root Diam, LVOT Vmax, AV Trace) Cardiac Output by Aortic Flow (AVA Plane) Cardiac Output, Teichholz/Cubic (LVIDd) Cardiac Output Two Chamber, Single Plane)		
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Cardiac Output Two Chamber, Single Plants		
Area-Length/Method of Disk (Simpson)		
Cardiac Output Four Chamber, Single Pl	ane,	
Area-Length/Method of Disk (Simpson)	(LVAd, LVAs, HR)	
897 Left ventricle • Ejection Fraction Two Chamber, Single F	lane,	
Area-Length/Method of Disk (Simpson)	(LVAd, LVAs)	
• Ejection Fraction Four Chamber, Single		
Plane, Area-Length/Method of Disk (Sin	pson) (LVAd, LVAs)	
Left Ventricle Stroke Volume, Single Pla	ie,	
Two Chamber/Four Chamber, Area-Len	gth (LVAd, LVAs)	
Left Ventricle Stroke Volume, Single Pla To Clarify (Fig. 1) And the last of the control o		
Two Chamber/Four Chamber, Method of	r Disk (Simpson)	
(LVIDd, LVIDs, LVAd, LVAs)		
Left Ventricle Volume, Two Chamber/Fo	ur Chamber,	
Area-Length (LVAd, LVAs)		
• Ejection Fraction, Bi-Plane,		
Method of Disk (LVAd, LVAs, 2CH, 4CH)		
Left Ventricle Stroke Volume, Bi-Plane,		
898 Left ventricle continued Method of Disk (LVAd, LVAs, 2CH, 4CH)		
• Left Ventricle Volume, Bi-Plane,		
Method of Disk (LVAd, LVAs, 2CH, 4CH)		
• Left Ventricle Stroke Index, Single Plane		
Two Chamber/Four Chamber, Area-Len	gth (LVSd, LVSs and BSA)	
• Left Ventricle Volume, Single Plane,		
Two Chamber/Four Chamber, Method of	f Disk (LVAd, LVAs)	
• Left Ventricle Volume, Apical View,		
Long Axis, Method of Disk (LVAd, LVAs)		
• Stroke Volume by Mitral Flow (MVA Plar	**	
Cardiac Output by Mitral Flow (MVA Plai		
900 Pulmonic valve • Stroke Volume by Pulmonic Flow (PV Pla		
Cardiac Output by Pulmonic Flow (PV Pl		
902 Combination Mode measurements	nimetry, TV Trace, HR)	
903 Parameter: lists the mode, the measurement folder and the specific measurement	animetry, TV Trace, HR)	

904	Measured Value: Up to six measurement values for each item. Average, maximum, minimum or last
905	Generic study in cardiology
906	Stroke Volume (SV)
907	Cardiac Output (CO)



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DOC2671561





The LOGIQ Fortis is GE's premium ultrasound imaging system designed for general imaging applications including abdominal, vascular, obstetric, gynecologic, neonatal, pediatric, urological, transcranial, cardiac, and small parts applications.

General specifications

Dimensions and weight

(Dimensions given with floating keyboard stowed and display tilted for transport)

Height	1250 – 1800 mm, 49 – 71"
Width	530 mm, 20.9" (Caster) 565 mm, 22.2" (Monitor)
Depth	885 mm, 34.8"
Weight	85 kg (187.4 lb)

Electrical power

Voltage 100 - 240 VAC

Frequency 50/60 Hz

Power consumption maximum of 0.9 KVA with peripherals

Console design

4 active probe ports

1 inactive probe storage port

Integrated SSD (1 TB)

Integrated DVD-R Multi Drive

On-board storage of thermal printer

Integrated speaker

Integrated locking mechanism that provides rolling lock and caster swivel lock

Integrated cable management

Front and rear handles

Easily removable air filters

User interface

Operator keyboard

Operating keyboard, adjustable in height and rotation

Ergonomic hard key layout

Interactive back-lighting

Integrated recording keys for remote control of up to 4 peripheral or DICOM® devices

Integrated gel warmer

Touch screen

12.1" High-resolution, color, touch display screen

Interactive dynamic software menu

Brightness adjustment

User-configurable layout

Display monitor

23.8" Widescreen high-resolution HDU Display

Display translation (independent of console)

350 mm (13.7") horizontal (both directions)

120 mm (4.7") vertical

90° swivel (both directions)

Fold-down and lock mechanism for transportation

Resolution: 1920 x 1080

Anti-glare

Viewing angle 89/89/89/89°

System overview

Applications

Abdominal

Obstetrical

Gynecological

Breast

Small Parts

Peripheral Vascular

Transcranial (adult and neonatal)

Pediatric and Neonatal

Musculoskeletal (general and superficial)

Urological

Cardiac (adult and pediatric)

Interventional

Pleural

System overview (cont.)

Operating modes

B-Mode

M-Mode

Color Flow Mode (CFM)

B-Flow[™] (Option)

Extended Field of View (LOGIQ View)

Power Doppler Imaging (PDI)

PW Doppler

CW Doppler (Option)

Volume Modes (3D/4D)

• 3D Static

(Option)

• 4D Real Time

Anatomical M-Mode

Coded Contrast Imaging (Option)

Strain Elastography (Option)

B-Steer+ (Option)

Shearwave Elastography (Option)

UGAP (Option)

Scanning methods

Electronic sector

Electronic convex

Electronic linear

Mechanical volume sweep

Probe types

Sector phased array

Convex array

Micro convex array

Linear array

Matrix array

Volume probes (4D)

Split crystal

System standard features

Advanced user interface with high-resolution 12.1" display touch panel

Automatic optimization

CrossXBeam[™]

Speckle Reduction Imaging (SRI-HD, Advanced SRI Type 1)

Fine angle steer

Coded harmonic imaging

Virtual convex

Patient information database

Image archive on integrated CD/DVD and hard drive

Advanced 3D

Real-time automatic Doppler calculations

OB calculations

Fetal trending

Multigestational calculations

Hip dysplasia calculations

Gynecological calculations

Vascular calculations

Urological calculations

Renal calculations

Cardiac calculations

InSite[™] capability

On-board electronic documentation

Auto CF/PW positioning feature

Privacy and security, including user and rights management

LOGIQView

Breast productivity package (Option)

Thyroid productivity package (Option)

External USB printer connection

Network printer support

HDMI output (available for compatible devices)

System overview (cont.)

System Over view (cont.)
Options
Tricefy [®]
DICOM
B-Flow
Auto IMT
Compare assistant
Scan assistant
OB measure assistant
Color quantification
Strain Elastography
Elastography quantification
Advanced privacy and security (vulnerability scan)
Power assistant and scan on battery
Storage bins
Shear wave elastography
Volume navigation
UGAP
Hepatic assistant
Coded Contrast Imaging
Stress echo
Cardiac Strain (Automatic Function Imaging)
On-board reporting
TVI
Wireless LAN
CW
DVR
Tablet tools
Advanced probes
KOIOS
SonoNT SonoIT
Advanced SRI Type 2

Peripheral options		
Integrated options for	Digital B&W thermal printerDVD video recorder	
Digital color thermal p	orinter	
Digital A6 color therm	nal printer	
Foot switch with programmable functionality		
Console protective cover		
LOGIQ smart device apps	Photo AssistantRemote Control	
CRF-200U card reader (for Japan)		
Display modes		
Live and stored display format	Full size and split screen – both w/ thumbnails. For still and CINE.	
Review image format	• 4x4, and thumbnails. For still and CIN	

PW Display

• CW

• Independent Dual B or CrossXBeam/

• Top/bottom selectable display format

• Side/side selectable format

Virtual convex

Timeline display

Simultaneous capability

B or CrossXBeam/PW

B or CrossXBeam/CW (Option)

B or CrossXBeam/CFM or PDI

B/M

B/CrossXBeam

B-Flow/PW

Real-time Triplex Mode

B or CrossXBeam + CFM or PDI/PW

Selectable alternating modes

B or CrossXBeam/PW

B or CrossXBeam + CFM (PDI)/PW

B/CW (Option)

System overview (cont.)

Multi-image (split/quad screen)

Live and/or frozen

B or CrossXBeam + B or CrossXBeam/CFM or PDI

PW/M

Independent CINE playback

Display annotation

Patient name: first, last, and middle

Patient ID

Alternate patient ID

Age, sex, and date of birth

Hospital name

Date format: three types selectable

- MM/DD/YY
- YY/MM/DD

- YY/M

Probe name

Map names

Probe orientation

Depth scale marker

Lateral scale marker

Image depth

Zoom depth

B-Mode	 Gain Imaging frequency Gray map	Dynamic rangeFrame averagingSRI-HD
M-Mode	 Gain Time scale	• Dynamic range
Doppler Mode	 Gain Sample volume depth and width Spectrum inversion Time scale Doppler frequency 	AngleWall filterVelocity and/or frequency scalePRF

Display annotation (cont.)

Color Flow Doppler Mode

- Line density
- Frame averaging
- Color Scale, 3 types: power, directional PDI, and symmetrical velocity imaging
- · Color velocity range and baseline
- · Color threshold marker
- · Color gain
- PDI
- · Spectrum inversion
- Doppler frequency

TGC curve

Acoustic frame rate

CINE gage, image number/frame number

Body pattern: multiple human and animal types

Application name

Measurement results

Operator message

Displayed acoustic output

- TIS: Thermal Index Soft Tissue
- TIC: Thermal Index Cranial (Bone)
- TIB: Thermal Index Bone
- MI: Mechanical Index

% of maximum power output

Biopsy guideline and zone

Heart rate

General system parameters

System setup

Pre-programmed categories

User programmable preset capability

Factory default preset data

Languages: English, French, German, Spanish, Italian, Brazilian Portuguese, Russian, Greek, Swedish, Danish, Dutch, Finnish, Norwegian

OB report formats including Tokyo Univ., Osaka Univ., USA, Europe, ASUM, and WHO

User defined annotations

Body patterns

Customized comment home position

EZ Imaging: Simplified user interface for high volume workflow

Complete user manual available on-board through Help (F1)

User manual and service manual are included on USB with each system. A printed manual is available upon request.

CINE memory/image memory

1 GB of CINE memory

Selectable CINE sequence for CINE review

Prospective CINE mark

Measurements/calculations and annotations on CINE playback

Scrolling timeline memory

Dual Image CINE display

Quad Image CINE display

CINE gauge and CINE image number display

CINE review loop

CINE review speed

Image storage

On-board database of patient information from past exams

Storage formats: DICOM

- Compressed/uncompressed
- Single/multi-frame
- Enhanced (3D/4D)
- With/without raw data

Export JPEG, JPEG 2000, WMV (MPEG 4) formats

Storage devices

- USB memory stick: 64 MB to 64 GB (for exporting individual images/clips)
- CD-R storage: 700 MB
- DVD storage: -R (4.7 GB)
- Hard drive image storage: ~730GB

Compare previous exam images with current exam

Reload of archived data sets

Connectivity

Ethernet network connection

Wireless LAN 802.11ac/a/b/g/n (Option)

DICOM 3.0

- Verify
- Print
- Store
- Modality worklist
- Storage commitment
- Modality performed procedure step (MPPS)
- Media exchange
- Off network/mobile storage queue
- Query/retrieve

Public SR template

Structured Reporting – compatible with vascular, OB, cardiac, and breast standard

InSite capability

Advanced privacy and security (Option)

Physiological input panel (Option)

Physiological input

- ECG, 1 channel
- PCG, 1 channel
- AUX, 1 channel
- Dual R-Trigger
- Pre-settable ECG R delay time
- Pre-settable ECG position
- Adjustable ECG gain control
- Pre-settable PCG position
- Adjustable PCG gain control
- Pre-settable AUX position
- Adjustable AUX gain control

Automatic heart rate display

Auto Ejection Fraction

Report writer (Option)

On-board reporting package automates report writing

Formats various exam results into a report suitable for printing or reviewing on a standard PC

Exam results include patient info, exam info, measurements, calculations, images, and comments with standard templates provided

Customizable templates

Scanning parameters

Displayed imaging depth: 0 - 100 cm

Minimum depth of field: 0 – 2 cm (zoom) (probe dependent)

Maximum depth of field: 0 - 100 cm (probe dependent)

Continuous dynamic receive focus/continuous dynamic receive Aperture

Adjustable dynamic range

Adjustable field of view (FOV)

Image reverse: right/left

Image rotation of 0°, 90°, 180°, 270°

Digital B-Mode

Adjustable

- Acoustic power
- Dynamic range
- Gray scale map
- Speed of sound (application
- dependent) Scanning size
- (FOV or Angle) Probe type dependent; consult individual probe

specifications

- Gain
 - · Frame averaging
 - Frequency
 - Frame rate
 - CrossXBeam
 - B colorization
 - Reject
 - Suppression
 - SRI-HD

Digital M-Mode

Adjustable

- Acoustic power
- Dynamic range
- Frequency
- M colorization
- Rejection
- Gain
 - Gray scale map
 - · Sweep speed

 - · M display format

Anatomical M-Mode

M-Mode cursor adjustable at any plane

Can be activated from a CINE loop from a live or stored image

M & A capability

Available with Color Flow Mode

Digital Spectral Doppler Mode

Adjustable

- Acoustic power
- Gain
- · Dynamic range
- · Gray scale map
- Transmit frequency Wall filter

range

- PW colorization · Velocity scale
- · Sweep speed
- Sample volume length
- Angle correction · Steered linear
- Spectrum inversion Trace method
- Baseline shift • Time resolution
- Doppler auto trace Compression
- Trace direction
 - Trace sensitivity

Digital Color Flow Mode

Adjustable

- Acoustic power
- Gain
- Velocity scale range
- Wall filter
- Packet size
- Spatial filter
- Frame average
- · Flash suppression
- Shortcuts

- · Color maps, including
 - velocity-variance
- maps · Line density
- · Steering angle
- Threshold
- Accumulation mode Auto ROI
 - placement and steering on
 - linear

· Color maps,

velocity-variance

including

maps

Digital Power Doppler Imaging

Adjustable

- Acoustic power
- Gain
- Velocity scale range
- Wall filter
- Packet size
- Spatial filter
- Frame average

- Accumulation mode Flash suppression
- Threshold

Line density

Steering angle

Shortcuts

Continuous Wave Doppler (Option)

Available on the following probes: M5Sc-D, P2D, P6D, 6S-D, 6Tc -RS

Steerable CW mode included

Adjustable

- · Acoustic power
- Dynamic range

- Trace method
- · Baseline shift
- Compression

- Gain
- - · Gray scale map
- Transmit frequency Wall filter
- CW colorization Velocity scale
- · Sweep speed range Spectrum
- Angle correction
- inversion
- Trace direction
- · Doppler auto trace

Trace sensitivity

Automatic optimization

Optimize B-Mode image to help improve contrast resolution

Selectable amount of contrast resolution improvement (low, medium, high)

CTO (Continuous Tissue Optimization) – continuously adjusts B-Mode axial and lateral gain uniformity and overall gain level, suppressing the noise

Auto-spectral optimize - adjusts baseline, invert, PRF (on live image), and angle correction

Auto CF and PW positioning – adjusts ROI position, sample volume position, and steering

Coded Harmonic Imaging

Available on all 2D and 4D probes

B-Flow (Option)

Available on the following probes: C1-6-D, C1-6VN-D, C2-7-D, C2-7VN-D, C2-9-D, C2-9VN-D, C3-10-D, L2-9-D, L2-9VN-D, L3-12-D, ML6-15-D, M5Sc-D, L8-18i-D, L6-24D

Background

Sensitivity/PRI

Acoustic power

Frequency

Line density

Frame average

Gray scale map

Tint map

Dynamic range

Rejection

Gain

Flash suppression

SRI-HD

Accumulation

Visualization

Radiantflow™

Easy, fast visualization of tiny vessels, displaying as a 3D effect

B Steer+

Available on the following probes: L2-9-D, L3-12-D, ML6-15-D, L8-18i-D, L2-9VN-D, L6-24

Coded contrast imaging (Option)

Available on the following probes: C1-6-D, C1-6VN-D, C2-9-D, C2-9VN-D, C2-7-D, C2-7VN-D, C3-10-D, IC5-9-D, L2-9-D, L2-9VN-D, L3-12-D, M5Sc-D, ML6-15-D, RAB6-D, RIC5-9-D

2 contrast timers

Timed updates: 0.05 - 10 seconds

Accumulation mode, seven levels

Maximum enhance mode

Flash

Time intensity curve (TIC) analysis

Parametric imaging

The LOGIQ Fortis is designed for compatibility with most commercially available ultrasound contrast agents. Because the availability of these agents is subject to government regulation and approval, product features intended for use with these agents may not be commercially marketed nor made available before the contrast agent is cleared for use. Contrast related product features are enabled only on systems for delivery to an authorized country or region of use.

LOGIQView

Extended field of view Imaging

Up to 160 cm (63") scan length

Available on all 2D imaging probes

For use in B-Mode

CrossXBeam is available on linear probes

Auto detection of scan direction

Pre-or post-process zoom

Rotation

Auto best fit on monitor

Measurements in B-Mode

3D

Allows unlimited rotation and planar translations

3D reconstruction from CINE sweep

Advanced 3D

Acquisition of color data

Automatic rendering

3D landscape technology

3D movie

Real Time 4D (Option)

Acquisition modes

- Real Time 4D
- Static 3D
- Spatio-Temporal Image Correlation

Visualization modes

- 3D rendering (diverse surface and intensity projection modes)
- Sectional planes (3 section planes perpendicular to each other)
- Omniview
- Volume contrast imaging static
- Volume contrast imaging Omniview
- · Tomographic ultrasound imaging
- Volume Analyses
- VOCAL: semi-auto/manual segmentation tool (segmentation using touch screen)
- 3D static only
- Threshold Volume: measure volume above and below a threshold

Render mode

- Surface texture, surface smooth, maxmin- and X-ray (average intensity projection), mix mode of two render modes
- HDlive™

SonoRenderlive

Curved 3-point render start

3D movie

Scalpel: 3D cut tool

Display format

- Quad: A-/B-/C-Plane/3D
- Dual: A-Plane/3D
- Single: 3D or A- or B- or C-Plane

Automated volume calculation - VOCAL II

Betaview

Volume navigation (Option)

Available on the following probes: C1-6VN-D, C2-9VN-D, C2-7VN-D, C3-10-D, L2-9VN-D, ML6-15-D, IC5-9-D, L8-18i-D, M5Sc-D

Sensor-based acquisition

Position markers

Needle tip tracking

Virtual tracking

Auto image registration

Tru3D feature includes:

Display of data in: main-, parallel-,

angular-mode

Render modes: gray surface, texture, min-, max-, average-intensity

Measurements: distance, angle, area, volume

3D movie

Scan assistant (Option)

Factory programs

User-defined programs

Steps include image annotations, mode transitions, basic imaging controls, and measurement initiation

Compare assistant (Option)

Allows side-by-side comparison of previous ultrasound and other modality exams during live scanning

Breast productivity package

Auto measurement

Worksheet summary includes measurements and locations for lesions and lymph nodes

Feature assessment

BI-RADS® assessment

User editable

Thyroid productivity package

Auto measurement

Worksheet summary includes measurements and locations for nodule, parathyroid, and lymph node

Feature assessment

TI-RADs assessment

User editable

Start Assistant

Automatically select category, probe, preset, or scan assistant from worklist exam description

Learn the category, probe, preset, and scan assistant based on exam description

Shear Wave Elastography (Option)

Available on the following probes: C1-6-D, C1-6VN-D, IC5-9-D, L2-9-D, L2-9VN-D,L3-12D, ML6-15-D, L8-18D

User programmable measurement display in kPa and meters per second

Single and dual view display

Strain Elastography (Option)

Available on the following probes: ML6-15-D, L2-9-D, L2-9VN-D, L3-12-D, IC5-9-D, C2-9-D, C2-9VN-D, C1-6-D, C1-6VN-D, L8-18i-D, BE9CS-D

Relative analysis tool

UGAP (Option)

Available on the following probes: C1-6-D, C1-6VN-D, C2-9D, C2-9VN-D

Measures liver attenuation* (attenuation coefficient [dB/cm/ MHz]) by auto measure algorithm with reference B-mode

Simple and 2D color map (attenuation color map and Measurement Position Indicator Map)

Quantitative flow analysis (Option)

Available in color and power Doppler

TVI (Option)

Available on the following probes: M5Sc-D, 6S-D, 6TC-RS, 6Tc-RS

Myocardial Doppler imaging with color overlay on tissue image

Tissue color overlay can be removed to show just the 2D image, still retaining the tissue velocity information

Curved anatomical M-Mode: free (curved) drawing of M-Mode generated from the cursor independent of the axial plane

Q-Analysis: multiple time-motion trace display from selected points in the myocardium

Stress echo (Option)

Advanced and flexible stress echo examination capabilities

Provides exercise and pharmacological protocol templates

6 default templates

Template editor for user configuration of existing templates or creation of new templates

Reference scan display during acquisition for stress level comparison (dual screen)

Baseline level/previous level selectable

Raw data continuous capture

Over 100 sec. available

Wall motion scoring (bulls-eye and segmental)

Smart stress: Automatically set up various scanning parameters (e.g. geometry, frequency, gain) according to same projection on previous level

Auto EF (Option)

Allows semi-automatic measurement of the global EF (Ejection Fraction)

User editable

Cardiac AFI (Option)

Allows assessment of the complete left ventricle with all segments at a glance by combining three longitudinal views into one comprehensive bulls-eye view

2D strain-based data moves into clinical practice

Virtual convex

Provides a convex field of view

Compatible with CrossXBeam

Available on all linear and sector probes

SRI-HD and Advanced SRI

Speckle reduction imaging

Provides multiple levels of speckle reduction

Compatible with side-by-side DualView display

Advanced SRI: two types selectable

- Type 1
- Compatible with all linear, convex, and sector probes
- Type 2 (Option)
- Compatible with OB/GYN application

CrossXBeam

Provides variable angle spatial compounding

Live side-by-side DualView display

Compatible with

- Color mode
- SRI-HD
- Coded harmonic
- Virtual convex
- imaging

Available on all curved and linear probes

Controls available while "live"

Magnification Zoom: Magnifies the entire image on the screen without zoom ROI

Pan Zoom: Magnifies the display of the data within the ROI

HD Zoom: Magnifies the image within the zoom ROI with higher spatial resolution than original images

B/M/CrossXBeam-Mode

- Gain
- TGC

- Dynamic range
- Acoustic output
- Framerate control Sweep speed for
- CrossXBeam angle M-Mode

Controls available while "live" (cont.)

PW-Mode

- Gain
- Acoustic output

- PRF

Wall filter

- Dynamic range • Transmission frequency

range

- Sample volume gate: length, depth
- Spectral averaging · Velocity scale

Color Flow Mode

- · CFM gain
- Acoustic output
- Wall echo filter
- Packet size • Frame rate control • CFM spatial filter

CFM velocity

- CFM frame averaging
- CFM line resolution
- Frequency/velocity baseline shift

Controls available on "freeze" or recall

Automatic optimization

SRI-HD

CrossXBeam - display non-compounded and compounded image simultaneously in split screen

3D reconstruction from a stored CINE loop

B/M/CrossXBeam mode

- Gray map optimization
- TGC
- Colorized B and M
- Frame average (loops only)
- · Dynamic range

Anatomical M-Mode

Magnification zoom

Pan zoom

Baseline shift

Sweep speed

PW mode

- Gray map
- Post gain
- Baseline shift
- Sweep speed
- Invert spectral wave form
- Compression
- Colorized spectrum Angle correct
- Display format

- · Quick angle correct · Auto angle correct

- Color flow
- · Overall gain (loops and stills)
- Color map
- Transparency map
- Frame averaging (loops only)
- CFM display threshold
- Spectral invert for color/Doppler

Anatomical M-Mode on CINE loop

4D

- · Gray map, colorize
- Post gain
- · Change display single, dual, quad sectional or rendered

Measurements/calculations

General B-Mode

Depth and distance

Circumference (ellipse/trace)

Area (ellipse/trace)

Volume (ellipsoid)

% Stenosis (area or diameter)

Angle between two lines

Dual B-Mode capability

General M-Mode

M-Depth

Distance

Time

Slope

Heart rate

General Doppler measurements/calculations

Velocity

Time

A/B ratio (velocities/frequency ratio)

PS (Peak Systole)

ED (End Diastole)

PS/ED (PS/ED Ratio)

ED/PS (ED/PS Ratio)

AT (Acceleration Time)

ACCEL (Acceleration)

TAMAX (Time Averaged Maximum Velocity)

Volume flow (TAMEAN and vessel area)

Heart rate

PI (Pulsatility Index)

RI (Resistivity Index)

Real-time Doppler auto measurements/calculations

PS (Peak Systole)

ED (End Diastole)

MD (Minimum Diastole)

PI (Pulsatility Index)

RI (Resistivity Index)

Measurements/calculations (cont.)

Real-time Doppler auto measurements/calculations (cont.)

AT (Acceleration Time)

ACC (Acceleration)

PS/ED (PS/ED Ratio)

ED/PS (ED/PS Ratio)

HR (Heart Rate)

TAMAX (Time Averaged Maximum Velocity)

PVAL (Peak Velocity Value)

Volume Flow (TAMEAN and Vessel Area)

Abdominal measurements/calculations

Shear Elasto velocity

Shear Elasto stiffness

Attenuation rate

Attenuation coefficient

Summary reports

Small Parts measurements/calculations

Breast Lesion

Thyroid

Parathyroid

Lymph Node

Nodule

Isthmus AP

Shear Elasto velocity

Shear Elasto stiffness

Summary reports

OB measurements/calculations

Gestational age by

- GS (Gestational Sac)
- CRL (Crown Rump Length)
- FL (Femur Length)
- BPD (Biparietal Diameter)
- AC (Abdominal Circumference)
- HC (Head Circumference)
- APTD x TTD (Anterior/Posterior Trunk Diameter by Transverse Trunk Diameter)
- FTA (Fetal Trunk Cross-sectional Area)
- HL (Humerus Length)
- BD (Binocular Distance)
- FT (Foot Length)
- OFD (Occipital Frontal Diameter)
- TAD (Transverse Abdominal Diameter)
- TCD (Transverse Cerebellum Diameter)
- THD (Thorax Transverse Diameter)
- TIB (Tibia Length)
- ULNA (Ulna Length)
- OOD (Outer Orbital Diameter)
- IOD (Inner Orbital Diameter)
- FIB (Fibula length)
- Radius (Radius length)
- LV (Lateral Ventricle width) (= SL)

Fetal graphical trending

Growth percentiles

Multi-gestational calculations (4)

Fetal qualitative description (anatomical survey)

Fetal environmental description (biophysical profile)

Programmable OB tables

Over 20 selectable OB calculations

Expanded worksheets

Estimated fetal weight (EFW) by:

AC, BPD

AC, BPD, FL

AC, BPD, FL, HC

AC, FL

AC, FL, HC

AC, HC

BPD, APTD, TTD, FL

BPD, APTD, TTD, SL

Measurements/calculations (cont.)

Calculations and ratios

FL/BPD

FL/AC

FL/HC

HC/AC

CI (Cephalic Index)

AFI (Amniotic Fluid Index)

CTAR (Cardio-Thoracic Area Ratio)

Measurements/calculations by: Alexander, ASUM, ASUM 2001, Bahlmann, Baschat, Berkowitz, Bertagnoli, Brenner, Campbell, CFEF, Chervenak, Chitty, Doubilet, Ebing, Eik-Nes Goldstein, Hadlock, Hansmann, Hellman, Hill, Hohler, Jeanty, JSUM, Kramer, Kurmanavicius, Kurtz, Mari, Mayden, Mercer, Merz, Moore, Nelson, Osaka University, Paris, Pexsters, Rempen, Robinson, Shepard, Shepard/Warsoff, Sonek, Tokyo University, Tokyo/Shinozuka, WHO, Williams, Yarkoni

OB measure assistant

Allows automatic measurement of BPD, HC, FL, AC, and HL

User editable

SonoNT and SonoIT

SonoNT measures the contour detection of the NT border

SonoIT is a system supported measurement for Intracranial Translucency

GYN measurements/calculations

Right ovary length, width, height

Left ovary length, width, height

Uterus length, width, height

Cervix length, trace

Ovarian volume

ENDO (Endometrial thickness)

Ovarian RI

Uterine RI

Follicular measurements

Fibroid measurements

Summary reports

Mean Uterine Artery (Gomez) Doppler Measurement and graph

Qualitative description (anatomical survey)

Vascular measurements/calculations

SYS DCCA (Systolic Distal Common Carotid Artery)

DIAS DCCA (Diastolic Distal Common Carotid Artery)

SYS MCCA (Systolic Mid Common Carotid Artery)

DIAS MCCA (Diastolic Mid Common Carotid Artery)

SYS PCCA (Systolic Proximal Common Carotid Artery)

DIAS PCCA (Diastolic Proximal Common Carotid Artery)

SYS DICA (Systolic Distal Internal Carotid Artery)

DIAS DICA (Systolic Distal Internal Carotid Artery)

SYS MICA (Systolic Mid Internal Carotid Artery)

DIAS MICA (Diastolic Mid Internal Carotid Artery)

SYS PICA (Systolic Proximal Internal Carotid Artery)

DIAS PICA (Diastolic Proximal Internal Carotid Artery)

SYS DECA (Systolic Distal External Carotid Artery)

DIAS DECA (Diastolic Distal External Carotid Artery)

SYS PECA (Systolic Proximal External Carotid Artery)

DIAS PECA (Diastolic Proximal External Carotid Artery)

VERT (Systolic Vertebral Velocity)

SUBCLAV (Systolic Subclavian Velocity)

Automatic IMT

Summary reports

Urological calculations

Bladder volume

Prostate volume

Left/right renal volume

Generic volume

Post-void bladder volume

Pelvic floor measurements

Probes (All Optional)

BE9CS-D

Applications: urology

Biopsy guide: single angle, disposable (E8387M);

single angle, reusable (E8387MA)

6S-D, sector probe

Applications: cardiac, pediatric cardiac

6Tc-RS, trans-esophageal probe

Applications: cardiac

TEE RS-DLP Adapter (H46352LK)

C1-6-D, XDclear[™] convex probe

Applications: abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal

Biopsy guide: multi-angle, disposable with a reusable bracket (H4917VB)

C1-6VN-D, VNav inside XDclear convex probe

VNav sensor inside probe for Volume Navigation tracking without sensor cables

Applications: abdomen, OB/GYN, pediatric, peripheral vascular, general musculoskeletal

Biopsy guide: multi-angle, disposable with a reusable bracket (H4917VB)

C2-7-D, micro convex biopsy probe

Applications: abdomen, pediatric

Biopsy guide: multi-angle, disposable with a reusable bracket (H40482LK); multi-angle, with a reusable stainless bracket (H40482LL)

C2-7VN-D, VNav inside micro convex biopsy probe

VNav sensor inside probe for Volume Navigation tracking without sensor cables

Applications: abdomen, pediatric

Biopsy guide: multi-angle, disposable with a reusable bracket (H40482LK); multi-angle, with a reusable stainless bracket (H40482LL)

C2-9-D, XDclear convex probe

Applications: abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal

Biopsy guide: multi-angle, disposable with a reusable bracket (H4913BA)

C2-9VN-D, VNav inside XDclear convex probe

VNav sensor inside probe for Volume Navigation tracking without sensor cables

Applications: abdomen, OB/GYN, pediatric, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal

Biopsy guide: multi-angle, disposable with a reusable bracket (H4913BA)

C3-10-D, XDclear micro convex probe

Applications: abdomen, neonatal, pediatric, peripheral vascular, neonatal transcranial, small parts

IC5-9-D, micro convex probe

Applications: OB/GYN, urology

Biopsy guide: single angle, disposable with a disposable bracket (E8385MJ) or a reusable bracket (H40412LN)

L2-9-D, XDclear linear probe

Applications: peripheral vascular, small parts, pediatric, abdomen, OB/GYN, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial

Biopsy guide: multi-angle, disposable with a reusable bracket (H44901AM)

L2-9VN-D, VNav inside XDclear linear probe

VNav sensor inside probe for Volume Navigation tracking without sensor cables

Applications: peripheral vascular, small parts, pediatric, abdomen, OB/GYN, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial

Biopsy guide: multi-angle, disposable with a reusable bracket (H44901AM)

L3-12-D, linear probe

Applications: abdomen, OB, general musculoskeletal, superficial musculoskeletal, neonatal, neonatal transcranial, small parts, vascular

Biopsy guide: multi-angle, disposable with a reusable bracket (H78652PA)

L6-24-D, linear probe

Applications: general musculoskeletal, superficial musculoskeletal, pediatrics, thyroid

Probes (cont.)

L8-18i-D, linear probe

Applications: small parts, peripheral vascular, neonatal, neonatal transcranial, general musculoskeletal, superficial musculoskeletal, intraoperative

M5Sc-D, XDclear sector probe

Applications: adult cardiac, pediatric cardiac, adult cephalic, abdominal

Biopsy guide: multi-angle, disposable with a reusable bracket (H45561FC)

ML6-15-D, matrix array linear probe

Applications: abdomen, small parts, peripheral vascular, neonatal, pediatric, neonatal transcranial, general musculoskeletal, superficial musculoskeletal

Biopsy guide: multi-angle, disposable with a reusable bracket (H40432LJ)

P2D, CW split crystal probe

Applications: adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic

P6D, CW split crystal probe

Applications: adult cardiac, pediatric cardiac, peripheral vascular, adult cephalic

RAB6-D, convex volume probe

Applications: abdomen, OB/GYN, pediatric, neonatal

Biopsy guide: single angle, reusable bracket (H46701AE)

RIC5-9-D, convex volume probe

Applications: OB/GYN, urology

Biopsy guide: single angle, reusable (H46721R)

External Inputs and outputs (not including on-board peripherals)

HDMI

Ethernet

Multiple USB 3.0 ports

Safety conformance

The LOGIQ Fortis is:

Classified to ANSI/AAMI ES60601-1 2005 R1 2012 Medical Electrical Equipment, Part 1: General Requirements for Safety by a Nationally Recognized Test Lab

Certified to CSA CAN/CSA-C22.2 NO. 60601-1:14 General requirements for safety

CE Marked to EU Medical Device Regulation MDR 2017-745 and Council Directive 93/42/EEC on Medical Devices and conforms to the following standards for safety:

- IEC/EN 60601-1 Edition 3.1 Medical electrical equipment Part 1: General requirements for basic safety and essential performance
- IEC/EN 60601-1-2 Medial electrical equipment – Parts 1-2: General requirements for safety – Collateral standard: Electromagnetic compatibility – requirements and tests
- IEC/EN 60601-1-6 Medical electrical equipment Parts 1-6: General requirements for basic safety and essential performance – Collateral standard: usability
- IEC/EN 60601-2-37 Medical electrical equipment – Parts 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment
- IEC 61157 (Standard means for the reporting of the acoustic output of medical diagnostic ultrasonic equipment)
- IEC/EN 62366 Application of usability engineering to medical devices
- IEC/EN 62304 Software life cycle processes
- IEC/EN 62359 Ultrasonic Field characterization – Test methods for the determination of thermal and mechanical indices related to medical diagnostic ultrasonic fields
- EN ISO 15223-1: Symbols to be used with medical device labels, labelling, and information to be supplied
- ISO 10993-1 Biological evaluation of medical devices – Part 1: Evaluation and testing
- ISO14971:2012 (Medical devices Application of risk management to medical devices)
- EMC Emissions Group 1, Class A device requirements as per sub-clause 4.2 of CISPR 11
- WEEE (Waste Electrical and Electronic Equipment)
- ROHS according to 2011/65/EU including national deviations
- Wireless equipment shall be certified to FCC, RED, and Japan Radio Law.
- Medical Device Good Manufacturing Practice Manual issued by the FDA (Food and Drug Administration, Department of Health, USA)

B-Mode measurements		
Aorta	 Aortic Root Diameter (Ao Root Diam) Aortic Arch Diameter (Ao Arch Diam) Ascending Aortic Diameter (Ao Asc Diam) Descending Aortic Diameter (Ao Desc Diam) Aorta Isthmus (Ao Isthmus) Aorta (Ao st junct) 	
Aortic valve	 Aortic Valve Cusp Separation (AV Cusp) Aortic Valve Area Planimetry (AVA Planimetry) Trans AVA 	
Left atrium	 Left Atrium Diameter (LA Diam) LA Length (LA Major) LA Width (LA Minor) Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao ratio) Left Atrium Area (LAA(d), LAA(s)) Left Atrium Volume, Single Plane, Method of Disk (LAEDV A2C, LAESV A2C) (LAEDV A4C, LAESV A4C), (LAEDV A-L, LAEDV Index A-L, LAESV A-L, LAESV Index A-L) 	

B-Mode measurements (cont.) • Left Ventricle Mass (LVPWd, LVPWs) Left ventricle • Left Ventricle Volume, Teichholz/Cubic (LVIDd. LVI Ds) • Left Ventricle Internal Diameter (LVIDd, LVI Ds) Left Ventricle Length (LVLd, LVLs) • Left Ventricle Outflow Tract Diameter (LVOT Diam) • Left Ventricle Posterior Wall Thickness (LVPWd. LVPWs) • Left Ventricle Length (LV Major) • Left Ventricle Width (LV Minor) • Left Ventricle Outflow Tract Area (LVOT) • Left Ventricle Area, Two Chamber/Four Chamber/Short Axis (LVA (d), LVA (s)) • Left Ventricle Endocardial Area, Width (LVA (d), LVA(s)) • Left Ventricle Epicardial Area, Length (LVAepi (d), LVAepi (s)) Left Ventricle Mass Index (LVPWd, LVPWs) • Ejection Fraction, Teichholz/Cube (LVIDd, LVIDs) • Left Ventricle Posterior Wall Fractional Shortening (LVPWd, LVPWs) Left Ventricle Stroke Index, Teichholz/ Cube (LVIDd, LVIDs and Body Surface Area) Left Ventricle Fractional Shortening (LVIDd, LVIDs)

• Left Ventricle Stroke Volume, Teichholz/

 Left Ventricle Stroke Index, Single Plane, Two Chamber, Method of Disk (LVI Dd,

 Left Ventricle Stroke Index, Single Plane, Four Chamber, Method of Disk (LVI Dd,

Left Ventricle Stroke Index, Bi-Plane, Bullet, Method of Disk (LVAd, LVAs)
Interventricular Septum (IVS)

Left Ventricle Internal Diameter (LVI D)
Left Ventricle Posterior Wall Thickness

Cubic (LVIDd, LVIDs)

LVIDs, LVSd, LVSs)

LVIDs, LVSd, LVSs)

(LVPW)

B-Mode measurements (cont.)		M-Mode measurements			
Mitral valve	 Mitral Valve Annulus Diameter (MV Ann Diam) E-Point-to-Septum Separation (EPSS) Mitral Valve Area Planimetry (MVA Planimetry) 	Aorta	 Aortic Root Diameter (Ao Root Diam) Aortic Valve Aortic Valve Diameter (AV Diam) Aortic Valve Cusp separation (AV Cusp) Aortic Valve Ejection Time (LVET) 		
Pulmonic valve	 Pulmonic Valve Area (PV Planimetry) Pulmonic Valve Annulus Diameter (PV Annulus Diam) Pulmonic Diameter (Pulmonic Diam) 	Left atrium	 Left Atrium Diameter to AoRoot Diameter Ratio (LA/Ao Ratio) Left Atrium Diameter (LA Diam) 		
Right atrium	 Right Atrium Diameter, Length (RAD Ma) Right Atrium Diameter, Width (RAD Mi) Right Atrium Area (RAA) Right Atrium Volume, Single Plane, Method of Disk (RAAd) Right Atrium Volume, Systolic, Single Plane, Method of Disk (RAAs) 	Left ventricle	 Left Ventricle Volume, Teichholz/Cubic (LVIDd, LVI Ds) Left Ventricle Internal Diameter (LVIDd, LVI Ds) Left Ventricle Posterior Wall Thickness (LVPWd, LVPWs) Left Ventricle Ejection Time (LVET) Left Ventricle Pre-Ejection Period (LVPEP) 		
Right ventricle	 Right Ventricle Outflow Tract Area (RVOT Planimetry) Left Pulmonary Artery Area (LPA Area) Right Pulmonary Artery Area (RPA Area) Right Ventricle Internal Diameter (RVIDd, RVIDs) Right Ventricle Diameter, Length (RVD Ma) Right Ventricle Diameter, Width (RVD Mi) Right Ventricle Wall Thickness (RVAWd, RVAWs) Right Ventricle Outflow Tract Diameter (RVOT Diam) Left Pulmonary Artery (LPA) Main Pulmonary Artery (RPA) Right Pulmonary Artery (RPA) 		 Interventricular Septum (IVS) Left Ventricle Internal Diameter (LVI D) Left Ventricle Posterior Wall Thickness (LVPW) 		
		Mitral valve	 E-Point-to-Septum Separation (EPSS) Mitral Valve Leaflet Separation (D-E Excursion) Mitral Valve Anterior Leaflet Excursion (D-E Excursion) Mitral Valve D-E Slope (D-E Slope) Mitral Valve E-F Slope (E-F Slope) Mitral Annular Plane Systolic Excursion (MAPSE) 		
		Pulmonic valve	• QRS Complex to End of Envelope (Q-PV close)		
System inferior vena cava	 Systemic Vein Diameter (Systemic Diam) Patent Ductus Arterosis Diameter (PDA Diam) Pericard Effusion (PEs) Patent Foramen Ovale Diameter (PFO Diam) Ventricular Septal Defect Diameter (VSD Diam) 	Right ventricle	 Right Ventricle Internal Diameter (RVIDd, RVIDs) Right Ventricle Wall Thickness (RVAWd, RVAWs) Right Ventricle Outflow Tract Diameter (RVOT Diam) Right Ventricle Ejection Time (RVET) Right Ventricle Pre-Ejection Period (RVPEP) 		
	• Interventricular Septum (IVS) Fractional Shortening (IVSd, IVSs)	System	Pericard Effusion (PE (d))		
Tricuspid valve	 Tricuspid Valve Area (TV Panimetry) Tricuspid Valve Annulus Diameter (TV Annulus Diam) 	Tricuspid valve	 QRS Complex to End of Envelope (Q-TV close) Tricuspid Annular Plane Systolic Excursion (TAPSE) 		

Doppler Mode measurements

Aortic valve

- Aortic Insufficiency Mean Pressure Gradient (AR Trace)
- Aortic Insufficiency Peak Pressure Gradient (AR Vmax)
- Aortic Insufficiency End Diastole Pressure Gradient (AR Trace)
- Aortic Insufficiency Mean Velocity (AR Trace)
- Aortic Insufficiency Velocity Time Integral (AR Trace)
- · Aortic Valve Mean Velocity (AV Trace)
- Aortic Valve Velocity Time Integral (AV Trace)
- Aortic Valve Mean Pressure Gradient (AV Trace)
- Aortic Valve Peak Pressure Gradient (AR Vmax)
- · Aortic Insufficiency Peak Velocity (AR Vmax)
- Aortic Insufficiency End-Diastolic Velocity (AR Trace)
- · Aortic Valve Peak Velocity (AV Vmax)
- Aortic Valve Peak Velocity at Point E (AV Vmax)
- Aorta Proximal Coarctation (Coarc Pre-Duct)
- Aorta Distal Coarctation (Coarc Post-Duct)
- Aortic Valve Insufficiency Pressure Half Time (AR PHT)
- Aortic Valve Flow Acceleration (AV Trace)
- Aortic Valve Pressure Half Time (AV Trace)
- Aortic Valve Acceleration Time (AV Acc Time)
- Aortic Valve Deceleration Time (AV Dec Time)
- Aortic Valve Ejection Time (AVET)
- Aortic Valve Acceleration to Ejection Time Ratio (AV Acc Time, AVET)
- Aortic Valve Area(VTI): AVA (Vmax)

Left ventricle

- Left Ventricle Outflow Tract Peak Pressure Gradient (LVOT Vmax)
- Left Ventricle Outflow Tract Peak Velocity (LVOT Vmax)
- Left Ventricle Outflow Tract Mean Pressure Gradient (LVOT Trace)
- Left Ventricle Outflow Tract Mean Velocity (LVOT Trace)
- Left Ventricle Outflow Tract Velocity Time Integral (LVOT Trace)
- Left Ventricle Ejection Time (LVET)

Mitral valve

- E' Early diastolic mitral valve annular velocity (E')
- E' Averaged Early diastolic mitral valve annular velocity (E' Avg)
- E' Lat Early diastolic mitral valve lateral annular velocity (E' Lat)
- E' Medial Early diastolic mitral valve medial annular velocity (E' Medial)
- E' Sept Early diastolic mitral valve septal annular velocity (E'Sept)

Doppler Mode measurements (cont.)

Mitral valve (cont.)

- Mitral inflow E velocity to E' ratio (E/E')
- Mitral inflow E velocity to E' Avg ratio (E/E' Avg)
- Mitral inflow E velocity to E' Lat ratio (E/E' Lat)
- Medial Mitral inflow E velocity to E' Medial ratio (E/E')
- Mitral inflow E velocity to E' Sept ratio (E/E' Sept)
- Mitral Valve Regurgitant Flow Acceleration (MR Trace)
- Mitral Valve Regurgitant Mean Velocity (MR Trace)
- Mitral Regurgitant Mean Pressure Gradient (MR Trace)
- Mitral Regurgitant Velocity Time Integral (MR Trace)
- Mitral Valve Mean Velocity (MV Trace)
- Mitral Valve Velocity Time Integral (MV Trace)
- Mitral Valve Mean Pressure Gradient (MV Trace)
- Mitral Regurgitant Peak Pressure Gradient (MR Vmax)
- Mitral Valve Peak Pressure Gradient (MV Vmax)
- Mitral Regurgitant Peak Velocity (MR Vmax)
- Mitral Valve Peak Velocity (MV Vmax)
- Mitral Valve Velocity Peak A (MV A Velocity)
- Mitral Valve Velocity Peak E (MV E Velocity)
- Mitral Valve Area According to PHT (MV PHT)
- Mitral Valve Flow Deceleration (MV DecT)
- Mitral Valve Pressure Half Time (MV PHT)
- Mitral Valve Flow Acceleration (MV AccT)
 Mitral Valve E-Peak to A-Peak Ratio (A-C
- and D-E) (MV E/ARatio)

 Mitral Valve Acceleration Time
- (MV Acc Time)
- Mitral Valve Deceleration Time (MV Dec Time)
- Mitral Valve Ejection Time ((MVET)
- Mitral Valve A-Wave Duration (MV A Dur)
- Mitral Valve Time to Peak (MV TTP)
- Mitral Valve Acceleration Time/Deceleration Time Ratio (MV Acc/Dec Time)
- Stroke Volume Index by Mitral Flow (MVA Planimetry, MVTrace)

Pulmonic valve

- Pulmonic Insufficiency Peak Pressure Gradient (PR Vmax)
- Pulmonic Insufficiency End-Diastolic Pressure Gradient (PR Trace)
- Pulmonic Valve Peak Pressure Gradient (PV Vmax)
- Pulmonic Insufficiency Peak Velocity (PR Vmax)

Doppler Mode measurements (cont.)

Pulmonic valve (cont.)

- Pulmonic Insufficiency End-Diastolic Velocity (Prend Vmax)
- Pulmonic Valve Peak Velocity (PV Vmax)
- Pulmonary Artery Diastolic Pressure (PV Trace)
- Pulmonic Insufficiency Mean Pressure Gradient (PR Trace)
- Pulmonic Valve Mean Pressure Gradient (PV Trace)
- Pulmonic Insufficiency Mean Square Root Velocity (PR Trace)
- Pulmonic Insufficiency Velocity Time Integral (PR Trace)
- Pulmonic Valve Mean Velocity (PV Trace)
- Pulmonic Valve Velocity Time Integral (PV Trace)
- Pulmonic Insufficiency Pressure Half Time (PR PHT)
- Pulmonic Valve Flow Acceleration (PV Acc Time)
- Pulmonic Valve Acceleration Time (PV Acc Time)
- Pulmonic Valve Ejection Time (PVET)
- QRS Complex to End of Envelope (Q-to-PV Close)
- Pulmonic Valve Acceleration to Ejection TIme Ratio (PV Acc Time, PVET)

Right ventricle

- Right Ventricle Outflow Tract Peak Pressure Gradient (RVOT Vmax)
- Right Ventricle Outflow Tract Peak Velocity (RVOT Vmax)
- Right Ventricle Outflow Tract Velocity Time Integral (RVOT Trace)
- Right Ventricle Ejection Time (RV Trace)
- Stroke Volume by Pulmonic Flow (RVOT Planimetry, RVOTTrace)
- Right Ventricle Stroke Volume Index by Pulmonic Flow (RVOT Planimetry, RVOT Trace)

System

- Pulmonary Artery Peak Velocity (PV Vmax)
- Pulmonary Vein Velocity Peak A (Reverse)
 (P Vein A)
- Pulmonary Vein Peak Velocity (P Vein D, P Vein S)
- Systemic Vein Peak Velocity (PDA Diastolic, PDA Systolic)
- Ventricular Septal Defect Peak Velocity (VSD Vmax)
- Atrial Septal Defect (ASD Diastolic, ASD Systolic)
- Pulmonary Vein A-Wave Duration (P Vein A Dur)
- IsoVolumetric Relaxation Time (IVRT)
- IsoVolumetric Contraction Time (IVCT)

Doppler Mode measurements (cont.)

System (cont.)

- Pulmonary Vein S/D Ratio (P Vein D, P Vein S)
- Ventricular Septal Defect Peak Pressure Gradient (VSD Vmax)
- Pulmonic-to-Systemic Flow Ratio (Qp/Qs)

Tricuspid valve

- Tricuspid Regurgitant Peak Pressure Gradient (TR Vmax)
- Tricuspid Valve Peak Pressure Gradient (TV Vmax)
- Tricuspid Regurgitant Peak Velocity (TR Vmax)
- Tricuspid Valve Peak Velocity (TV Vmax)
- Tricuspid Valve Velocity Peak A (TV A Velocity)
- Tricuspid Valve Velocity Peak E (TV E Velocity)
- Tricuspid Regurgitant Mean Pressure Gradient (TR Trace)
- Tricuspid Valve Mean Pressure Gradient (TV Trace)
- Tricuspid Regurgitant Mean Velocity (TR Trace)
- Tricuspid Regurgitant Velocity Time Integral (TR Trace)
- Tricuspid Valve Mean Velocity (TV Trace)
- Tricuspid Valve Velocity Time Integral (TV Trace)
- Tricuspid Valve Time to Peak (TV TTP)
- Tricuspid Valve Ejection Time (TV Acc/ Dec Time)
- Tricuspid Valve A-Wave Duration (TV A Dur)
- QRS Complex to End of Envelope (Q-TV Close)
- Tricuspid Valve Pressure Half Time (TV PHT)
- Stroke Volume by Tricuspid Flow (TV Planimetry, TV Trace)
- Tricuspid Valve E-Peak to A-Peak Ratio (TV E/A Velocity)

Color Flow Mode measurements

Aortic valve

- Proximal Isovelocity Surface Area: Regurgitant Orifice Area (AR Radius)
- Proximal Isovelocity Surface Area: Radius of Aliased Point (AR Radius)
- Proximal Isovelocity Surface Area: Regurgitant Flow (AR Trace)
- Proximal Isovelocity Surface Area: Regurgitant Volume Flow (AR Trace)
- Proximal Isovelocity Surface Area: Aliased Velocity (AR Vmax)

Color Flow Mode measurements (cont.)

Mitral valve

- Proximal Isovelocity Surface Area:
 Regurgitant Orifice Area (MR Radius)
- Proximal Isovelocity Surface Area: Radius of Aliased Point (MR Radius)
- Proximal Isovelocity Surface Area: Regurgitant Flow (MR Trace)
- Proximal Isovelocity Surface Area: Regurgitant Volume Flow (MR Trace)
- Proximal Isovelocity Surface Area: Aliased Velocity (MR Vmax)

Combination Mode measurements

Aortic valve

- Aortic Valve Area (Ao Root Diam, LVOT Vmax, AV Vmax)
- Aortic Valve Area by Continuity Equation by Peak Velocity (Ao Root Diam, LVOT Vmax, AV Vmax)
- Stroke Volume by Aortic Flow (AVA Planimetry, AV Trace)
- Cardiac Output by Aortic Flow (AVA Planimetry, AV Trace, HR)
- Aortic Valve Area by Continuity Equation VTI (Ao Root Diam, LVOT Vmax, AV Trace)

Left ventricle

- Cardiac Output, Teichholz/Cubic (LVIDd, LVI Ds, HR)
- Cardiac Output Two-Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)
- Cardiac Output Four-Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs, HR)
- Ejection Fraction Two-Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs)
- Ejection Fraction Four-Chamber, Single Plane, Area-Length/Method of Disk (Simpson) (LVAd, LVAs)
- Left Ventricle Stroke Volume, Single Plane, Two-Chamber/Four-Chamber, Area-Length (LVAd, LVAs)
- Left Ventricle Stroke Volume, Single Plane, Two-Chamber/Four-Chamber, Method of Disk (Simpson) (LVIDd, LVIDs, LVAd, LVAs)
- Left Ventricle Volume, Two-Chamber/ Four-Chamber, Area-Length (LVAd, LVAs)

Combination Mode measurements (cont.)

Left ventricle (cont.)

- Ejection Fraction, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)
- Left Ventricle Stroke Volume, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)
- Left Ventricle Volume, Bi-Plane, Method of Disk (LVAd, LVAs, 2CH, 4CH)
- Left Ventricle Stroke Index, Single Plane, Two-Chamber/Four-Chamber, Area-Length (LVSd, LVSs and BSA)
- Left Ventricle Volume, Single Plane, Two-Chamber/Four-Chamber, Method of Disk (LVAd, LVAs)
- Left Ventricle Volume, Apical View, Long Axis, Method of Disk (LVAd, LVAs)

Mitral valve

- Stroke Volume by Mitral Flow (MVA Planimetry, MV Trace)
- Cardiac Output by Mitral Flow (MVA Planimetry, MV Trace, HR)

Pulmonic valve

- Stroke Volume by Pulmonic Flow (PV Planimetry, PV Trace)
- Cardiac Output by Pulmonic Flow (PV Planimetry, PV Trace, HR)

Tricuspid valve

 Cardiac Output by Tricuspid Flow (TV Planimetry, TV Trace, HR)

Cardiac worksheet

Parameter: lists the mode, the measurement folder, and the specific measurement

Measured Value: Up to six measurement values for each item. Average, maximum, minimum, or last

Generic study in cardiology

Stroke Volume (SV)

Cardiac Output (CO)

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October 2021 DOC2560319 Global



LOGIQ Fortis[™]

Probe Guide



Featuring XDclear[™] **Technology**

urological, transcranial, cardiac, and small parts applications.

	Description	Applications	FOV	Bandwidth	Biopsy Guide	Volume Navigation
	CONVEX					
C1-6-D C1-6VN-D*	XDclear broad-spectrum convex probe	Abdominal, Obstetrics, Gynecology, Vascular, Musculoskeletal	80°	1 – 6 MHz	Multi-angle disposable with a reusable bracket	Yes * Internal VNav sensor, does not require an external bracket
C2-9-D C2-9VN-D*	XDclear broad-spectrum convex probe	Abdominal, Obstetrics, Gynecology, Pediatrics, Vascular, Musculoskeletal	80°	2 – 9 MHz	Multi-angle disposable with a reusable bracket	Yes *Internal VNav sensor, does not require an external bracket
C3-10-D	XDclear broad-spectrum convex probe	Neonatal, Pediatrics, Vascular, Small Parts	95°	2 – 11 MHz	No	Yes
IC5-9-D	Broad-spectrum micro-convex intra-cavitary probe	Obstetrics, Gynecology, Urology	180°	3 – 10 MHz	Single-angle disposable or single-angle reusable	Yes
C2-7-D C2-7VN-D*	Broad spectrum convex probe	Abdominal	110°	1 – 6 MHz	Multi-angle disposable with reusable bracket options	Yes *Internal VNav sensor, does not require an external bracket
	LINEAR					
L2-9-D L2-9-VN-D*	XDclear broad-spectrum linear probe	Vascular, Small Parts, Musculoskeletal, Neonatal Cephalic, Pediatric, Abdominal, Obstetrical	44 mm	2 – 10 MHz	Multi-angle disposable with a reusable bracket	Yes * Internal VNav sensor, does not require an external bracket
L3-12-D	Broad-spectrum linear probe	Abdominal, Obstetric, Vascular, Musculoskeletal, Small Parts, Pediatric, Neonatal	51 mm	2 – 11 MHz	Multi-angle disposable with a disposable bracket	Yes
L6-24-D	Broad-spectrum linear probe	Musculoskeletal	26 mm	6 – 20 MHz	No	No
L8-18i-D	Broad-spectrum linear probe	Small Parts, Vascular, Intraoperative, Neonatal	25 mm	4 – 15 MHz	No	Yes
ML6-15-D	Broad-spectrum linear matrix array probe	Vascular, Small Parts, Neonatal, Pediatrics	50 mm	4 – 16 MHz	Multi-angle disposable with a reusable bracket	Yes



Product may not be available in all countries and regions. Full product technical specifications is available upon request. Contact a GE Healthcare Representative for more information. Please visit www.gehealthcare.com/promotional-locations.

Data subject to change.

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September 2021 DOC2621716 Global

