



- Datasheet -

Richard Wolf Piezolith 3000

Lithotripter



Dimensions and weight (control unit)

Dimensions (L x W x H)1200mm x 720 mm x 1000mm
 Weight240kg

Treatment room

Recommended room size4x 5m

Electrical connections

Voltage requirements..... 100 – 127 VAC / 200 – 240 VAC
 Max. current rating8 A / 4A
 Max power consumption.....800 VA
 Electrical fusing.....T8AH 250V

Classification (acc. to EN 60601-1)

Index of protection.....I
 Application unit TypeB
 Operating mode Continuous operation

Water supply

Integrated water circuit with automatic processing.
 No water inflow and outflow required.

Pressure wave source (therapy head)

Type of generation.. piezoelectric
 Focusing method..... self focusing sphere
 Garantueed number of shocks..... 5 million
 Opening diameter..... 270 mm
 Focal distance..... 165 mm
 Penetration depth.....200mm
 Opening angle..... 74°
 Orbital movement of therapy head ± 50°
 Swiveling range from therapy to park position..... 180°
 Trigger frequencies..... 0.5, 1, 1.5, 2, 3, 4, 6 Hz, ECG

Focus point

Focal points.....3
 F1 pressure range.....16 – 126MPa
 F1 typical volume..... Ø 3.7 x 30 mm
 F2 pressure range14 – 123MPa
 F2 typical volume..... Ø 4.8 x 32 mm
 F3 pressure range.....8 – 63MPa
 F3 typical volume..... Ø 8.7 x 63 mm

User interface

Control panel with softkey buttons
 7 segment display

X-ray localization

Localization principle..... outline
 manual angulation of c-arc..... ± 30
 Multiple choice of c-arcs available

Ultrasound localization

Localization principle..... inline
 Motorized vertical movement of transducer.....120mm
 Motorized rotation of transducer..... ± 90
 Multiple choice of ultrasound device available

Treatment table

Motorized axis.....5
 Max. patient weight..... 220kg
 Vertical travel range (z).....200mm
 Longitudinal travel range (x).....120mm
 Transversal travel range (y).....120mm



- Datasheet -

Richard Wolf treatment table

Multifunctional treatment table



System

- Multifunctional treatment table for Lithotripsy and endourology
- Max. patient weight 220kg
- Dimensions L x W x H 1800mm x 756mm x 745mm (without extensions)
- Isocentric Trendelenburg (around table middle) $\pm 15^\circ$
- Isoclinic Trendelenburg (in direction of table end) $\pm 12^\circ$
- Vertical movement range 200mm
- Longitudinal movement range 120mm
- Transversal movement range 120mm
- Softkey handheld control
- Controllable from Piezolith P3000+ (if connected)
- Two table extension of 300mm respectively

Options

- Footswitch
- Legholders
- Urocatcher holder
- Distal radiolucent cutouts (bilaterally)

System

- Multifunktionaler Behandlungstisch für Lithotripsie und Endourologie
- Max. Patientengewicht 220kg
- Maße L x B x H 1800mm x 756mm x 745mm (ohne Verlängerungen)
- Isozentrische Trendelenburg (Kippung um Tischmitte) $\pm 15^\circ$
- Isoklinische Trendelenburg (Kippung um Tischende) $\pm 12^\circ$
- Vertikaler Verfahrbereich 200mm
- Longitudinaler Verfahrbereich 120mm
- Transversale Verfahrbereich 120mm
- Handbedienfeld mit Folientastatur
- Steuerbar vom Piezolith P3000+ (falls verbunden)
- Zwei Tischverlängerung jeweils 300mm

Optionen

- Fusschalter
- Beinhalter
- Halter für Uro-Beutel
- Distale röntgentransparente Bereiche (beidseitig)



- Datasheet -

Samsung HS40

Ultrasound device for Lithotripter



SYSTEM

- Fully equipped diagnostic colour ultrasound system
- 21.5" colour LED monitor (1920 x 1080)
- 10.1" high resolution Touchscreen
- S-Harmonic provides clearer image from near to far zone.
- ClearVision virtually eliminates unwanted speckle noise provides excellent contrast resolution with enhanced edge definition for unsurpassed image clarity.
- QuickScan automatic image optimization
- Doppler: colour flow motion, CW Doppler, S-Flow
- Organ specific measurement functions
- Stone localization with 2 – 6 MHz convex array in-line probe
- 3 probe connectors
- Easy export to USB
- Data storage media: up to 500 GB for images and videos

TRANSDUCER

- Endo-cavitary probe available (option)
- Hand-held external abdominal probe available (option)
- Linear array probe available (option)
- Puncture adapters available (option)

Options

- Digital BW printer: Sony UP-X898MD
- DICOM connectivity

SYSTEM

- Vollausgestattetes diagnostisches Ultraschallsystem
- 21,5" Farb-LED-Monitor (1920 x 1080)
- 10.1" hochauflösender Touchmonitor
- S-Harmonic bietet klarere Bilder von der Nah- bis zur Fernzone.
- ClearVision eliminiert nahezu das Specklerauschen und bietet exzellente Kontrastauflösung mit verbesserter Kantendefinition für unübertroffenen Bildklarheit.
- QuickScan für automatische Bildoptimierung
- Doppler: Farbdoppler, CW Doppler, S-Flow
- Organspezifische Messprogramme
- Steinortung mit 2 – 6 MHz-Inline-Konvex-Schallkopf
- 3 Schallkopfanschlüsse
- Einfacher USB-Export
- Bildspeicher bis zu 500 GB für Bilder und Videos

SCHALLKÖPFE

- Endo-kavitärer Schoellkopf (Option)
- Externer Abdominalschallkopf (Option)
- Linearschallkopf verfügbar (Option)
- Punktionsadapter erhältlich (Option)

Optionen

- Digitaler SW Drucker: Sony UP-X898MD
- DICOM-Anbindung

SPECIFICATION SUMMARY

PHYSICAL SPECIFICATION

- Height: 1,354 ~ 1,620mm (with monitor)
- Width: 520 mm
- Depth: 730 mm
- Weight: 54 Kg (without accessories)
- Weight: Approx. 57 Kg (with Safe Working Load)

IMAGING MODES

- 2D-Mode
- M-Mode
- Color M-Mode
- Anatomical Mode
- Color Doppler Mode
- Pulsed Wave (PW) Spectral Doppler Mode
- Continuous Wave (CW) Doppler Mode
- Tissue Doppler Imaging (TDI) Mode
- Tissue Doppler Wave (TDW) Mode
- Power Doppler (PD) Mode
- ElastoScan Mode
- 3D/4D/XI STIC imaging Mode
- Freehand 3D Mode
- Dual Mode
- Quad Mode
- Combined Mode
- Simultaneous Mode
- Zoom Mode
- S-Flow Mode

FOCUSING

- Transmit focusing, maximum of eight points (four points simultaneously selectable)
- Digital dynamic receive focusing (continuous)

PROBE CONNECTIONS

- 3 or 4 Probe Connectors (Selectable)
- CW Probe Connector (Optional)

MONITOR

- Main Monitor
 - Resolution: 1,920 x 1,080
 - 21.5 Inch LED Monitor
- Touch Screen Monitor
 - Resolution: 1,280 x 800
 - 10.1 Inch LED Monitor

ECG

- USB Type (Type CF)

IMAGE STORAGE

- Maximum 45,000 Frames for Cine memory
- Maximum 14,000 Lines for Loop memory
- Image filing system

REAR PANEL INPUT/OUTPUT CONNECTIONS

- Audio Output Port (Right/Left)
- VGA monitor
- S-Video Output
- LAN
- USB Port
- HDMI Output
- MIC

AUXILIARY

-
- DVD Multi-Drive
 - Digital B/W Video Printer
 - Digital Color Video Printer
 - USB Printer
 - DVD Recorder
 - Foot switch (IPX8)
 - USB Flash Memory Media
 - USB HDD
 - USB ECG
 - Monitor

USER INTERFACE

- English, German, French, Spanish, Italian, Portuguese,
Chinese

ELECTRICAL PARAMETERS

- 100-240 VAC, 620 VA, 50/60 Hz

PRESSURE LIMITS

- Operating: 700 hPa to 1,060 hPa
- Storage: 700 hPa to 1,060 hPa

HUMIDITY LIMITS

- Operating: 30 % to 75 %
- Storage & Shipping: 20 % to 90 %

TEMPERATURE LIMITS

- Operating: 10 °C to 35 °C
- Storage & Shipping: -25 °C to 60 °C

GENERAL SPECIFICATION

PHYSICAL SPECIFICATION

- Height: 1,354 ~ 1,620mm (with monitor)
- Width: 520 mm
- Depth: 730 mm
- Weight: 54 Kg (without accessories)
- Weight: Approx. 57 Kg (with Safe Working Load)

CONSOLE DESIGN

- 3 or 4 Active Probe Ports (Optional)
- 4 Swivel Wheel Cart Based Type
- Articulated Monitor Arm
- Built-in Printer Storages
- Ergonomic Operation Panel
- Touch Screen
- Alpha-Numeric Keyboard(Optional)
- Trackball
- Probe Holder / Gel Holder
- Front Handle
- Integrated PC Module
- Integrated HDD
- Windows Embedded Standard 7
- ODD (Optional)
- Gel Warmer (Optional)
- ECG (Optional)

MAIN MONITOR

- 21.5 Inches High Resolution LED Monitor
- Resolution: 1,920 x 1,080 (16:9)
- Number of Color: 16.7 M
- Brightness Adjustment
- Interactive Dynamic Software Menu

- Articulated Monitor Arm
 - Swivel: +/- 160°
 - Tilt: + 25° / - 70°
 - Lift: 180 mm

CONTROL PANEL

- Touch Screen
 - 10.1 Inches High Resolution LED Monitor
 - Resolution: 1,280 X 800
 - Capacitive Touch Type
 - Virtual Alpha Numeric KBD
- Alpha-Numeric KBD
- 4 User Keys
- Tri-Status backlit
- 5 Probe Holders
- Height Adjustment: 100 mm

PC

- Main Processor: AMD Bald Eagle RX-425BB
- Main Memory: 8 GB
- Built-in HDD: 0.5 TB

ELECTRICAL SPECIFICATIONS

- Frequency: 50/60 Hz
- Voltage: 100 ~ 240 VAC
- Power Consumption: Max.620 VA with Peripherals
- Heat Dissipation: 2,729.7 [BTU/h]
- System Noise: under 40dBA[**MAX.**]
- Built-in Equipotential Circuit

SYSTEM SPECIFICATION

APPLICATIONS

- Abdomen
- Cardiac
- Gynecology
- MSK
- Obstetrics
- Pediatric
- Small Parts
- Urology
- Vascular

PRESETS

- Abdomen
- Adult Echo
- Adnexa
- Aorta
- Aortic Arch
- Arterial
- Bladder
- Bowel
- Breast
- Carotid
- Deep
- Fetal Heart
- General
- Neo Head
- NT
- Ped Abd
- Ped Echo

- Ped Hip
- Prostate
- Renal
- Spine
- Superficial
- Thyroid
- Testicle
- TCD
- Uterus
- Venous
- 1st Trimester
- 2nd Trimester
- 3rd Trimester

OPERATION MODE

- B-Mode (2D)
- Color Doppler Mode (C)
- Pulse Wave Doppler (PWD)
- Continuous Wave Doppler(CWD): Steered / Static
- Power Doppler Mode (PD)
- S-Flow™ Mode
- M-Mode (M)
- Anatomical M Mode
- Single/Dual/Quad Mode
- Volume Mode
 - 3D / 4D / 3D XI / XI STIC™
- TDI/TDW
- ElastoScan Mode

DISPLAY MODE

- Dual Mode
 - B+B, B+B/C, B+B/PD, B+B/S-Flow

- User Programmable Preset : Over 30 Presets
- User Programmable Key: 4 Keys
- Touch Screen Menu Editable Function
- SonoView™
- Data Backup / Restore
- Image Exporting and Importing
- PW Velocity Range: 0.1cm/s ~ 8.8m/s
- CW Velocity Range: 1cm/s ~ 19.3m/s

- Gel Warmer
- Printer Tray (Large / Small)
- 3P connector PSA
- 3P Connector PSA (with Pencil Probe Port)
- 4P Connector PSA
- 4P Connector PSA (with Pencil Probe Port)

SYSTEM OPTIONS

- 4D
- 3D XI™
- Auto IMT+
- Cardiac Measurement
- CW Function
- DICOM 3.0
- ElastoScan
- EZ Exam+
- Hello Mom
- Needle Mate+
- Panoramic
- 5D NT
- 5D Follicle
- RealisticVue
- XI STIC
- MultiVision
- Strain+
- SEE Stream (RU region only)
 - RUS restricted mode (RU region only)
 - DVD-RW
 - ECG (AHA / IEC)
 - Foot Switch

DISPLAY

- Application
- Preset Mode
- Date: 3 types (Selectable)
 - YYYY-MM-DD
 - MM-DD-YYYY
 - DD-MM-YYYY
- Time: 2 types (Selectable)
 - 24 hours
 - 12 hours
- Patient (General Information)
 - Patient ID
 - Patient Name (First, Middle & Last)
 - Gender: Female, Male, Other
 - Birth / Age
 - Accession Number
 - Diag. Physician
 - Ref. Physician
 - Operator
 - Indication
 - Study Information
 - E-mail
- Gestational Age: LMP/EDD/GA
- Institute

- ElastoScan + ElastoScan
- Dual Live Mode
 - B+B, B+B/C, B+B/PD, B+B/S-Flow
 - B+ElastoScan
- Real-Time Triplex Mode (Simultaneous Mode)
 - B+C+PW, B+PD+PW, B+S-Flow+PW, B+TDI+TDW
- Duplex, Triplex Mode
 - B+C, B+M, B+3D, B+4D, B+PW, B+PD, B+S-Flow, B+CW, B+C+PW, B+C+CW, B+C+M, B+ElastoScan, B+TDI, B+TDW
- Quad Mode
 - Combinations of B/B, B/C, B/PD and B/S-Flow, ElastoScan
- Zoom Mode
 - Write Zoom / Read Zoom / Pen zoom/ Panning
- Needle Mate+
- Panoramic
- Trapezoid
- Displayed Imaging Depth (Probe dependent)
 - Minimum Depth of Field: 2cm
 - Maximum Depth of Field: 38cm
- Number of Focal Points: 1 ~ 4
- Transmission Focal Zone Position selection
 - 1 ~ 8 Focal Points Selectable (Probe and Application dependent)
- Continuous Dynamic Receive Focus / Aperture
- Multi-frequency / Wideband Technology
- Frequency Compounding (FSI)
- ClearVision
- 256 Shades of Gray
- System Internal Dynamic Range: 256
- Maximum Frame Rate
 - Over 2,000 fps (Hz)
- Maximum Color Frame Rate
 - Over 400 fps (Hz)
- Image Reverse: Right/Left, Up/Down
- Image Rotation: 90°, 180°, 270°
- Pre Processing
- Post Processing
- Digital Calipers / Measurement
- Cine Memory
 - Capacity: 500 MB
 - Cine loop: Max. 14,000 Lines
 - Image storage: Max. 45,000 Frames / 60 Sec
- QuickScan™
- EZ compare
- Report Package
- Body Marker
- System Boot up: Max. 180 Sec
- Probe Change: 2-3 Sec

TRANSDUCER TYPES

- Linear Array: LN5-12, L5-12/50
- Curved Array: C2-8, C2-5
- Endo-Cavity: EVN4-9, ER4-9
- Micro-Convex Array: CF4-9
- Phased Array: PN2-4
- Pencil: DP2B
- Volume Probe (3D mechanical probe)
 - Curved Volume: VN4-8

SYSTEM STANDARD FEATURES

- Hybrid Full Digital Beam-forming
- Frequency Range: 2 ~ 16MHz

- Operator - English, French, German, Italian, Russian, Nordic
- Probe Name (Norwegian, Finnish, Swedish, Danish)
- Probe Orientation
- Depth / Width
- Focal Zone
- Focal Number
- TGC Line
- FPS (Hz)
- Frequency
- Gain
- Dynamic Range
- Map
- Frame Average
- Power
- ClearVision Index
- MultiVision Index
- Gray Bar
- Acoustic Index: TIs, Tlb, Tic
- Mechanical Index: MI
- Caliper & Measurement Result
- Indicator
- Pointer
- Body Marker
- ROI Position / ROI Size
- Wall filter
- Zoom / Panning
- Biopsy Guide Line (Probe dependent)

LANGUAGE

- Display Language
 - English, French, German, Italian, Spanish, Portuguese, Chinese, Russian
- Input Language

OPERATING ENVIRONMENT

- Temperature: 10 °C ~ 35 °C
- Humidity: Up to 90%
- Pressure: 700 ~ 1060 hPa

PROCESSING

DATA PROCESSING

- System Processing Channel: 286,720
- Raw Data Image Analysis
- Cine
 - Function: save / review / play / stop / pause / export / Trim Start / Trim End
- Clipboard: displays thumbnail images of the acquired data for the current exam
- Enlarged Preview of the image
- Image Archive / Connectivity
- Image format: AVI, MPEG, JPEG, BMP, TIFF, DICOM
- Image Viewer (Sonoview™)
- Measurements, Calculations and Annotations on CINE Playback
- Number of Image Storage : max. 350,000 images (RAW format)
- Image Preview
- Cine Image Preview
- Recalling Image from the Clipboard
- Scrolling Timeline Memory
- Start and End Frame Selections for Loop Playback

PRE-PROCESSING

- B/M-Mode
 - Dynamic Range
 - Frame Average
 - Frequency
 - Gain
 - Harmonic
 - Pulse Inversion Harmonic (Probe dependent)
 - Line Density
 - Power
 - Reject
 - Scan Area
 - TGC
 - Write Zoom
 - MultiVision (Probe Dependent)
 - Beam Steering (Probe Dependent)
 - Trapezoid (Probe Dependent)
 - Free Angle Plane
- PW Mode
 - Filter
 - Frequency
 - Gain
 - Power
 - PRF (Scale)
 - Sample Volume Angle
 - Sample Volume Position
- CW Mode
 - Sample Rate
 - Filter
 - Gain
 - Power
 - Sample Volume Angle
- Color Doppler / Power Doppler mode
 - Sample Volume Position
 - Filter
 - Frame Average
 - Frequency
 - Gain
 - Line Density
 - Power
 - PRF (Scale)
 - Smoothing
 - Sensitivity
 - Steer Angle
- 3D / 4D Mode
 - Scan Quality
 - Volume Angle
- ElastoScan Mode
 - Frame Average
 - Frequency
 - Line Density

POST-PROCESSING

- B-Mode
 - Chroma Map
 - Gray Map
 - Image Size
 - Read Zoom
 - ClearVision
 - Sweep Speed
- M-Mode
 - Chroma Map
 - M Mode Map
 - Read Zoom

- Sweep Speed
- PW / CW Mode
 - Base line
 - Chroma Map
 - Doppler Map
 - Invert
 - Read Zoom
 - Sound
 - Trace Direction
 - Trace Method
- Color Doppler / Power Doppler Mode
 - Balance
 - Baseline
 - Chroma Map
 - Color Map
 - Hide Color
 - Invert
 - Read Zoom
- 3D Mode
 - 3D
 - 3D XI™
 - Accept ROI
 - Chroma Map
 - MagiCut™
 - VOCAL™
 - XI VOCAL™
 - 5D NT
 - XI STIC™
- ElastoScan Mode
 - E-Gain
 - Contrast
 - Color Map

- Alpha Blending
- Blending Level
- Enhancement

CONNECTIVITY

DICOM

- DICOM 3.0
- DICOM Media
- DICOM Performed Procedure Step (PPS)
- DICOM Print
- DICOM Storage
- DICOM Storage Commitment (SC)
- DICOM Structured Reporting (SR)
- DICOM Verification
- DICOM Worklist
- Gray Scale Converting
- Multi Frame
- Single Frame
- 3D Volume Frame
- Transfer Mode
 - Send after acquisition
 - Send on end exam
 - Send manually
- VOI LUT Setup

IHE

- Scheduled Workflow (SWF)
- Patient Information Reconciliation (PIR)
- Portable Data for Imaging (PDI)
- Evidence Documents (ED)

PERIPHERAL INTERFACE

- Audio in L/R
- Audio out L/R
- D-SUB output
- S-Video output
- HDMI output
- USB 2.0 (6 ports)
- Ethernet 10/100/1000BASE-T
- Foot Switch: USB 2.0 (IPX 8)
- DVD Recorder: Sony DVO-1000MD
 - S-video, NTSC/PAL
 - Recording only
- Printers
 - Digital BW Video Printer: Sony UP-D897, Sony UP-D898MD, Sony UP-X898MD, Mitsubishi P95DW, Mitsubishi P95D
 - Digital Color Video Printer: Sony UP-D25MD, Mitsubishi CP30DW
 - USB Line Printer: Samsung CLP-620NDK, ML-2950

SCANNING PARAMETERS

2D MODE

- Angle Steering: 0°, +/-7°, +/- 12°
- Chroma Map: off, 1 ~ 11
- Cine Play: On, Off
- Cine Speed: 6, 12, 25, 50, 100, 150, 200, 300
- Depth: 2cm ~ 38cm (Probe dependent)
- Dual Live
- Dynamic Range: 30 ~ 256

- Flip: L/R, U/D
- Focus Number: 1 ~ 4
- Frequency Compounding
- Frequency: 3 ~ 5 steps (Probe Dependent)
 - Pen2, Pen1, Gen, Res1, Res2
- Gain: 0 ~ 100
- Gray Map: 1 ~ 12
- Harmonic: On, Off
- Image Size: 70 ~ 100%
- Line Density: Low, Med, High
- Number of TGC Level: 8
- Frame Average: 0 ~ 9
- Power: 2 ~ 100
- Pulse Inversion Harmonic: On, Off (Probe dependent)
- QuickScan™
- Reject Level: 0 ~ 30
- MultiVision Index: Off, Low, Med, High
- ClearVision Index: Off, 1 ~ 5
- Trapezoid: On, Off (Linear Probes only)
- Scan Area: 40 ~ 100%
- Zoom
 - Read Zoom: 100 ~ 800 %
 - Write Zoom
- Panning
- Free Angle Plane

M MODE

- Chroma Map: Off, 1 ~ 11
- Display format
 - M-mode only
 - Up/down, Side by side
 - Size: 50/50, 70/30, 30/70

- Doppler Map: 1 ~ 12
- Dynamic Range: 30 ~ 256
- Gain: 0 ~ 100
- Invert: On, Off
- Power: 2 ~ 100
- Sample Rate: 1.8kHz ~ 57kHz (probe dependent)
- QuickScan™: On, update
- Sound: 0 ~ 100
- Angle Correction: -80° ~ 80°
- SV Position Control
- Quick Angle: 0°, 60°, -60°
- Sweep Speed: 18 ~ 142 mm/s
- Trace
 - Method: Off, Mean, Max
 - Direction: Both, Above, Below
- Filter: 1 ~ 4

PD MODE

- Balance: 0 ~ 16 step
- Color Map: 1 ~ 12
- Line Density: Low, Med, High
- Dual Live: On, off
- Filter: 1 ~ 4
- Frame Average: 0 ~ 5 step
- Frequency: 2 steps (probe dependent)
- Gain: 0 ~ 100
- Hide Color
- Invert: On, Off (S-Flow™ only)
- Power: 2 ~ 100
- PRF: 0.1 ~ 19.5 kHz (Probe dependent)
- Sensitivity: 0 ~ 5
- Smoothing: 0 ~ 5

- Steer Angle: 0°, +/-15°, +/-20°, +/-30°
- Filter: 1 ~ 4

3D/4D MODE

- 3D
 - 4D (Live 3D)
 - Color 3D
 - 3D XI™
 - MSV
 - Oblique View™
 - XI VOCAL™
 - 5D NT
 - MagiCut™
 - Orientation Help
 - Curved ROI
 - 3D Cine
 - Rotation Angle: 30°/45°/60°/90°/180°/360°
 - Step Angle: 1°/3°/5°/15°
 - 4D Cine
 - Cine Type: Volume, Image
 - Layout
 - Play Mode: Loop, Yoyo
 - Speed: Very Slow, Slow, Normal, Fast, Fastest
 - Trim Start, Trim End
 - Volume Index
 - MPR
 - 2D
 - Render
 - Accept ROI
 - Init
 - Layout
 - Ref. Image: A/B/C/OH

- Light direction (9 directions)
- Move light
- Set color (Hue, Saturation, Lightness)

ELASTOSCAN MODE

- Line Density: Low, Med, High
- Invert: On, off
- Dual Live: On, off
- Frequency
- Gain: 0 ~ 100
- Contrast: 0 ~ 100
- Frame Average: 0 ~ 100
- Color Map: 1 ~ 5
- Alpha Blending: On, off
- Blending Level: 0 ~ 100
- Enhancement: 0 ~ 100

TRANSDUCERS

LINEAR

LA3-16AD

- Band Width : 3 ~ 16 MHz
- Radius of curvature : Flat
- Field of view : 38.4 mm
- Number of elements : 192
- Biopsy Guide : Available
- Application : Abdomen, MSK, Small Parts, Vascular, OB, GYN, Pediatric
- Safety Class: BF

LN5-12

- Band Width : 5 ~ 12 MHz

- Radius of curvature : Flat
- Field of view : 38.1 mm
- Number of elements : 128
- Biopsy Guide : Available
- Application : Abdomen, MSK, Small Parts, Vascular, OB, GYN, Pediatric
- Safety Class: BF

L5-12/50

- Band Width : 5 ~ 12 MHz
- Radius of curvature : Flat
- Field of view : 52 mm
- Number of elements : 128
- Biopsy Guide : Available
- Application : Abdomen, MSK, Small Parts, Vascular, OB, GYN, Pediatric
- Safety Class: BF

CONVEX

CA2-8AD

- Band Width: 2 ~ 8 MHz
- Radius of curvature : 60.365 mm
- Field of view : 58 °
- Number of elements : 192
- Biopsy Guide : Available
- Application : Abdomen, OB, GYN
- Safety Class: BF

C2-8

- Band Width: 2 ~ 8 MHz
- Radius of curvature : 51.07 mm

- Field of view : 68.176 °
- Number of elements : 128
- Biopsy Guide : Available
- Application : Abdomen, OB, GYN
- Safety Class: BF

C2-5

- Band Width: 2 ~ 5 MHz
- Radius of curvature : 39.64 mm
- Field of view : 75 °
- Number of elements : 128
- Biopsy Guide : Available
- Application : Abdomen, OB, GYN
- Safety Class: BF

CF4-9

- Band Width: 4 ~ 9 MHz
- Radius of curvature : 14 mm
- Field of view : 92 °
- Number of elements : 128
- Biopsy Guide : Not available
- Application : Abdomen, Pediatric, Vascular
- Safety Class: BF

ENDOCAVITY

EVN4-9

- Band Width : 4 ~ 9 MHz
- Radius of curvature : 10.073 mm
- Field of view : 148.092 °
- Number of elements : 128
- Biopsy Guide : Available
- Application : OB, GYN, Urology
- Safety Class: BF

ER4-9

- Band Width : 4 ~ 9 MHz
- Radius of curvature : 10.073 mm
- Field of view : 148.092 °
- Number of elements : 128
- Biopsy Guide : Available
- Application : OB, GYN, Urology
- Safety Class: BF

VOLUME

VN4-8

- Band Width: 4 ~ 8 MHz
- Radius of curvature : 38.10 mm
- Field of view : 77.24 °
- Number of elements : 128
- Biopsy Guide : Available
- Application : Abdomen, OB, GYN
- Safety Class: BF

V5-9

- Band Width: 5 ~ 9 MHz
- Radius of curvature : 10.1 mm
- Field of view : 150.6 °
- Number of elements : 192
- Biopsy Guide : Available
- Application : OB, GYN, Urology
- Safety Class: BF

PHASED ARRAY

PN2-4

- Band Width : 2 ~ 4 MHz
- Radius of curvature : Flat
- Field of view : 90 °
- Number of elements : 64

- Biopsy Guide : Not available
- Application : Abdomen, Cardiac, Vascular, Pediatric
- Safety Class: BF

PENCIL

DP2B

- Center frequency : 2.0MHz
- Application : Cardiac
- Safety Class : BF

MEASUREMENT

- Caliper
- Abdomen
- Cardiac
- Vascular
- Gynecology
- Obstetrics
- Fetal Heart
- Urology
- MSK
- Small Parts
- Pediatric

CALIPER

- 2D Distance
- M Distance
- 2D Trace
- 2D Trace length
- Doppler Manual Trace
- Doppler Limited Trace
- 2 Lines Angle
- 3 Points Angle

- Ellipse (Area / Circumference)
- Spline
- Open Spline
- Closed Spline
- %Stenosis (Diameter)
- %Stenosis (Area)
- 1 Distance Volume
- 2 Distance Volume
- 3 Distance Volume
- Ellipse Volume
- Ellipse + Distance Volume
- Disk Volume
- Slope
- Heart Rate (M, Doppler)
- Time (M, Doppler)
- Velocity
- Acceleration
- RI
- Volume Flow (Diameter)
- Volume Flow (Area)
- Auto Trace
- Manual Trace
- Limited Trace

ABDOMEN

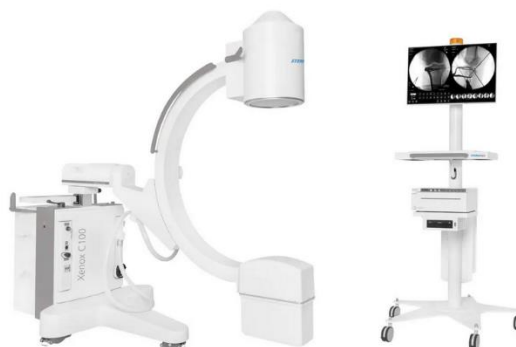
- Gallbladder
- Pancreas
- Bowel
- Kidney Vol. (Right / Light)
- Liver
- Spleen
- Aorta



- Datasheet -

Technix TCA6R-EYES

X-ray C-arc for Lithotripter



GENERATOR

- 5 kW high frequency generator

X-RAY TUBE

- rotating anode: 0,3mm / 0,6mm

Image intensifier (23 cm)

- magnification modes: 21 – 15 - 10 cm
- Matrix: 1024 x 1024 pixel

CONTINUOUS FLUOROSCOPY

- kVp range: 40 – 120 kV
- mA range: 0,25 - 15 mA

PULSED FLUOROSCOPY

- kVp range: 40 – 120 kV
- mA range: 0,25 - 15 mA
- Rates: 12/sec, 6/sec, 3/sec, 1/sec

DIGITAL RADIOGRAPHY (snapshot)

- kVp range: 40 – 120 kV
- mA range: 2,5- 30 mA

CONTROL PANEL

- Membrane keyboard with touch-screen 5.7" LCD
- Keyboard can be rotated of $\pm 60^\circ$

IMAGE MEMORY

- Up to 55,000 images storage capacity

VIEWING STATION

- 24" split screen monitor on trolley
- 1920 x 1200 pixel

PROCESSING

- Noise reduction through recursive filter and motion detection
- Edge enhancement
- Grey scale inversion
- Horizontal image flip
- Digital image rotation
- Contrast/brightness adjustments (window/level)
- LIH (Last Image Hold)
- Patient data entry
- electronic zoom
- Virtual collimator
- Angles and distances measurements
- Annotations

DICOM (optional)

- Store, Print, Worklist, MPPS, Media Export, Storage Commitment, Query/Retrieve, Structured Dose Report

ADDITIONAL FEATURES FOR USAGE WITH P3000 PLUS

- Motorized angulation $\pm 30^\circ$ (controlled from Lithotripter)
- X-ray image import
- Footswitch extension for remote solutions

For technical details, see the brochure of the manufacturer.

Subject to technical changes.

Technische Änderungen vorbehalten.

Technix TCA6R-EYES

