

# *Aplio beyond*

Product Data  
No. MPDUS0248EAE

### **INTRODUCTION**

This system achieves high sensitivity and high quality by using digital technology in the T/R section, which is the core of a diagnostic ultrasound system.

This system is designed to support a full range of applications and can be used as a general purpose system or a specialized system, depending on the installed software.

### **Full-digital ultrasound beam transmission and reception**

This system employs full-digital transmission and reception circuits. The high definition ultrasound beams and data processing technology available with full-digital systems allow high sensitivity and image quality to be achieved simultaneously.

### **Transducers supporting a wide range of frequencies**

Echoes over a wide range of frequencies can be obtained using a single transducer, allowing the optimal sensitivity and quality to be achieved for each region examined. This function permits a single transducer to be utilized for a wide range of applications, greatly improving the throughput and price-to-performance ratio.

### **Intelligent panel and software**

The intelligent panel and software facilitate operation and contribute to a higher throughput.

### **Upgradability**

This system can be periodically upgraded to the latest version.

### **Ergonomics**

The system employs a non-interlace high-definition monitor with excellent viewability.

The ergonomic design of the system ensures comfortable and efficient examinations for operators, physicians, and patients.

### **Operability**

System operability is optimized for the overall clinical workflow in hospitals.



## SYSTEM MATRIX OF APLIO BEYOND / CUS-ABE00

Unit	Model name	Remarks
Main unit	CUS-ABE00	23-inch wide screen LCD monitor, ADF (Advanced Dynamic Flow), ApliPure, ApliPure+, Precision Imaging, Precision Plus Fine Processing mode, CDI (Color Doppler Imaging), Power Doppler (PowerAngio), TDI (Tissue Doppler imaging), TwinView, D-THI (Differential THI), Full Focus, Smart 3D, 4D STIC imaging, Auto IMT measurement, Flex-M, VI (Vascularity Index), Quick Scan, BEAM (Biopsy Enhancement Auto Mode), TSO (Tissue Specific Optimization), DICOM®.

### <Options for main unit>

Unit	Model name	Remarks	Main unit		Note
			Aplio beyond	Aplio beyond WH model	
CW kit	UHFL-CW	For cardiovascular examinations, adds Continuous Wave Doppler capability to sector and pencil transducers.	Op.	Op.	V2.0 or later
Pencil unit	UHBE-PENCL	This unit is used to add connectors for pencil transducers. (UHFL-CW is required.)	Op.	Op.	V2.0 or later
Reference Signal unit	UHBE-REFSG	Hardware and software kit to display reference signals (ECG waveforms etc.). (UJUR-AI900A or UJUR-AI901A is required.)	Op.	Op.	V2.0 or later
Reference Signal cable	UJUR-AI900A	For cardiovascular examinations (for regions other than the USA): ECG (Electrocardiogram), respiration, ECG gating, heart rate (UHBE-REFSG is required.)	Op.	Op.	V2.0 or later
	UJUR-AI901A	For cardiovascular examinations (only for the USA and Canada): ECG, respiration, ECG gating, heart rate (UHBE-REFSG is required.)	Op.	Op.	V2.0 or later
Reference Signal Sensor unit	UJUR-AI902A	PCG (Phonocardiogram) and Pulse sensor. (UHBE-REFSG is required.)	Op.	Op.	V2.0 or later
Stress Echo kit	USME-STRES, USME-STRES/EL	Adds cardiac stress examination function to the system. (UHBE-REFSG is required.)	Op.	Op.	V2.0 or later
Auto EF Measurement	USME-AEFM, USME-AEFM/EL	Software to enable Auto EF LV (left ventricular function). (UHBE-REFSG is required.) (Not available in the USA and Canada.)	Op.	Op.	V2.0 or later
2D Wall Motion Tracking kit	USME-2DWMT, USME-2DWMT/EL	Adds cardiac wall motion analysis function to the system. 2D WMT LV (Auto trace, 3-point ACT, Auto plane detection) and LA (Auto trace, Auto plane detection) are not available in the USA and Canada. (UHBE-REFSG is required.)	Op.	Op.	V2.0 or later
2D Wall Motion Tracking Advanced kit	USBE-2DWMTA, USBE-2DWMTA/EL	Adds advanced features of cardiac wall motion analysis function to the system. (USME-2DWMT is required.) 2DWMT RV (Auto trace, 3-point ACT) and RA (Auto trace) are not available in the USA and Canada.	Op.	Op.	V2.0 or later
2D Wall Motion Tracking Fetal kit	USME-2DWMTF, USME-2DWMTF/EL	This kit enables cardiac wall motion analysis function for fetal heart using data from a convex transducer. (USME-2DWMT is required.)	Op.	Op.	V2.0 or later
AutoGLS kit	USME-AGLS, USME-AGLS/EL	Enables easy full LV assessment including bull's eye, Auto EF and GLS.(Quick Strain) (USME-2DWMT is required.) (Not available in the USA and Canada.)	Op.	Op.	V2.0 or later
Contrast Enhance kit	USME-CENH, USME-CENH/EL	Enables the examiner to improve visibility of the cavities and thus the delineation of the myocardium (Clarity).	Op.	Op.	V2.0 or later
Measurement Assistant kit	USBE-MASS, USBE-MASS/EL	This option is used to add the Measurement Assistant function. The following items are supported. Auto EF, LA (left atrial volume) (USME-AEFM is required.), Auto TR, Auto E/A, Auto LVOT/AV, Auto RVOT/PV, Auto TDI sep/Auto TDI lat/Auto TDI RV. (Not available in the USA and Canada.)	Op.	Op.	V2.0 or later
Workflow Navigator kit	USME-WFNAV, USME-WFNAV/EL	This kit activates automatically and indicates additional measurements to be performed based on the ASE (American Society of Echocardiography) guideline after completing the preceding step in the workflow examination in Cardiology.	Op.	Op.	V2.0 or later
M-TEE Hanger kit	UHME-TEEHG1	TEE transducer hanger for the PET-512MD.	Op.	Op.	V2.0 or later
Fetal Heart MPI measurement kit	USME-FHMPI, USME-FHMPI/EL	This kit enables MPI (Myocardial Performance Index). The MPI value can be calculated from the time change curve in TDI.	Op.	Op.	V2.0 or later
Measurement Z Score kit	USME-MEASZ, USME-MEASZ/EL	This kit enables Z-score analysis for the measurement results.	Op.	Op.	V2.0 or later
Tricefy Access kit	USME-TRICE, USME-TRICE/EL	This kit enables to access Tricefy™ which is a cloud service for clinical images.	Op.	Op.	V2.0 or later
Smart Fetal Heart kit	USBE-SFH, USBE-SFH/EL	This kit enables the automatic generation of standard fetal heart views from a 4 chamber volume data set with mechanical 4D. (UHCO-M4D is required.)	Op.	Op.	V2.0 or later
Smart Area Indication OB kit	USBE-SAI0B, USBE-SAI0B/EL	This kit enables to detect fetal ultrasound screening section in real-time mainly based on ISUOG guidelines. (Not available in the USA and Canada.)	Op.	Op.	V2.0 or later
CHI kit	USME-CHI, USME-CHI/EL	Adds Contrast Imaging function to the system.	Op.	Op.	V2.0 or later
CHI-Q kit	USBE-CHIQ, USBE-CHIQ/EL	Adds TCA (Time Curve Analysis) function to the system. (USME-CHI is required.)	Op.	Op.	V2.0 or later

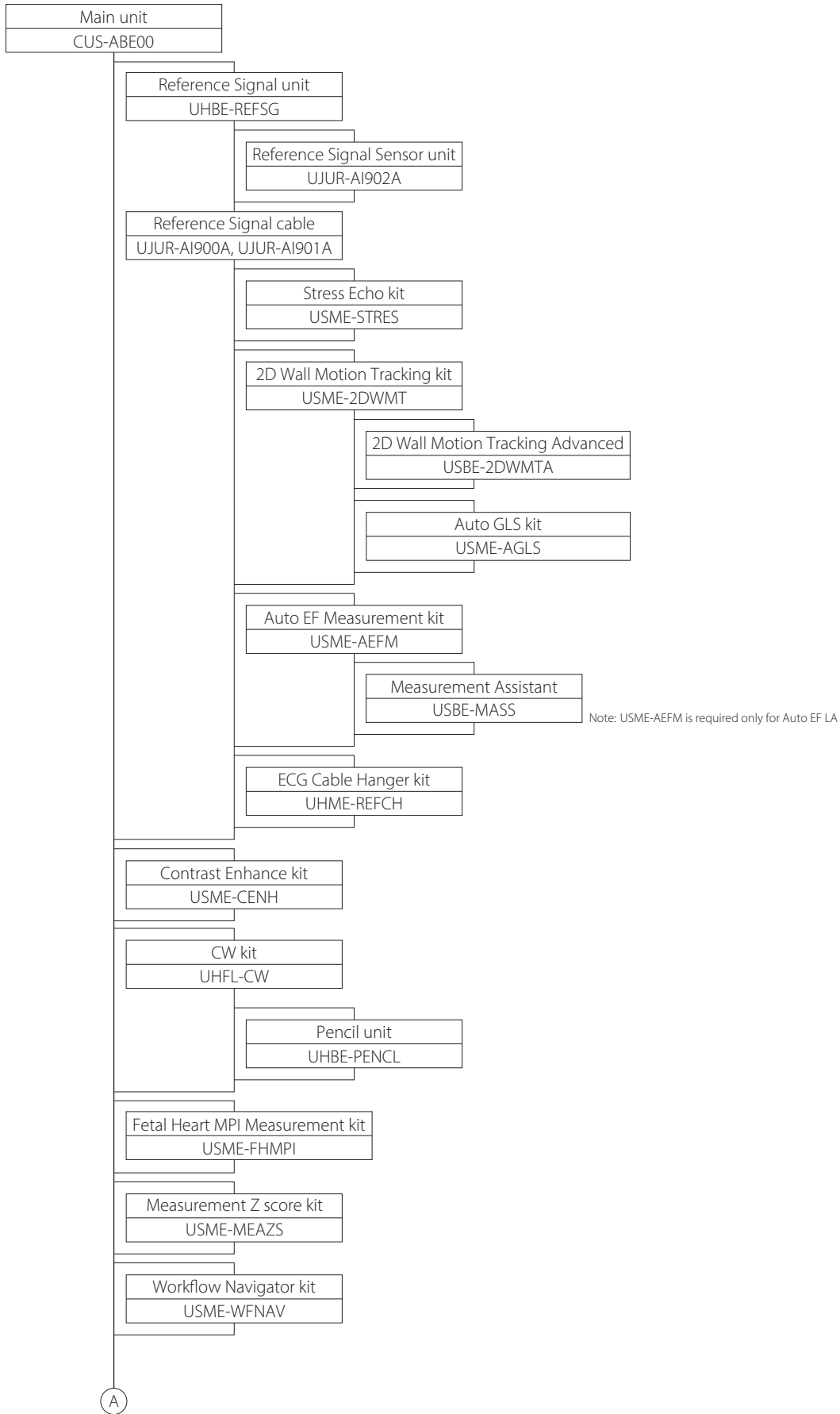
Unit	Model name	Remarks	Main unit		Note
			Aplio beyond	Aplio beyond WH model	
Fitting Curve kit	USBE-FITCU, USBE-FITCU/EL	Function for calculating characteristic value parameters by fitting curve. (USBE-CHIQ is required.)	Op.	Op.	V2.0 or later
Elastography-FLR kit	USME-SELFL, USME-SELFL/EL	This kit enables Elastography with FLR measurement. (Not available in the USA.)	Op.	Op.	V2.0 or later
Elastography kit	USME-SEL, USME-SEL/EL	This kit enables Elastography without FLR measurement. (Only available in the USA.)	Op.	Op.	V2.0 or later
Shear Wave kit	USME-SWE, USME-SWE/EL	This kit allows tissue stiffness to be visualized by generating images that show shear wave propagation.	Op.	Op.	V2.0 or later
Quad View for SWE kit	USBE-QVSWE, USBE-QVSWE/EL	This kit allows display of Shear Wave images in four-frame display. (USME-SWE, USME-LVRP, or UHBE-BRSTP and USBE-BRSTP are required.)	Op.	Op.	V2.0 or later
Magnetic Generator kit	UHBE-MAGEN	This kit is used to generate the magnetic field for acquiring positional information for transducers and needles in Smart Fusion and Smart Navigation modes. Sensor securing adapters and magnetic sensors are included. (One set for the PVU-475BT and PVU-475BTW) (This kit is not available with UHBE-BLTCVR.)	Op.	Op.	V2.0 or later
Smart Fusion kit	USBE-SMFUSN, USBE-SMFUSN/EL	CT/MRI/US volume data is loaded, and a CT/MRI/US planar image and an ultrasound image at the same position are displayed together. Automatic position matching is not available in the USA and Canada. (UHBE-MAGEN is required.)	Op.	Op.	V2.0 or later
Smart Navigation kit	USBE-SMNAVI, USBE-SMNAVI/EL	This kit allows display of a guideline in the image by simulating the pathway of the needle and the position of the needle tip based on positional information acquired using the magnetic sensor. (USBE-SMFUSN is required.)	Op.	Op.	V2.0 or later
Auto Registration kit	USBE-AREGI, USBE-AREGI/EL	Used for the Smart Fusion function. Performs automatic position matching between the ultrasound volume data acquired in a previous exam and the real-time 2D ultrasound image. (USBE-SMFUSN is required.)	Op.	Op.	V2.0 or later
Prostate Auto-Fusion kit	USBE-PFUSN, USBE-PFUSN/EL	This kit performs automatic position matching between the ultrasound volume data acquired in a previous exam and the real-time 2D ultrasound image during prostate examination. (USBE-SMFUSN is required.) (Not available in the USA and Canada.)	Op.	Op.	V2.0 or later
Breast Scan Guide kit	USBE-BSGID, USBE-BSGID/EL	This kit enables the information in the DICOM data from the digital Mammography MLO/CC images to be used to create an overlay position on the ultrasound body mark when in reference mode. (USME-REFIM is required.)	Op.	Op.	V2.0 or later
Smart Body Mark kit	USBE-SMBM, USBE-SMBM/EL	This kit automatically traces and displays the anatomical position of the transducer mark based on the transducer position using a magnetic sensor. (UHBE-MAGEN is required.)	Op.	Op.	V2.0 or later
Breast Package kit	UHBE-BRSTP	Package of Magnetic Generator (UHBE-MAGEN) and Fusion adapter (UAFS-008A). (USBE-BRSTP is required.)	Op.	Op.	V2.0 or later
Breast Package Soft kit	USBE-BRSTP, USBE-BRSTP/EL	Breast Package software. Package of USBE-SMBM, USBE-SMFUSN, USME-SWE, and USME-SELFL. (UHBE-BRSTP is required.)	Op.	Op.	V2.0 or later
Sensor kit for Fusion unit	UIFR-A501A	This magnetic sensor is added for performing Smart Fusion and Smart Navigation using multiple transducers. (UHBE-MAGEN is required.)	Op.	Op.	V2.0 or later
Fusion Pole Cart	UZWT-A500A	This pole cart allows the magnetic field generator included in the system main unit to be positioned independently. (UHBE-MAGEN is required.)	Op.	Op.	V2.0 or later
Mounting kit for fusion sensor	UAFS-001A	for PVU-382BT	Op.	Op.	V2.0 or later
	UAFS-002A	for PVU-350BTP	Op.	Op.	V2.0 or later
	UAFS-004A	for PLU-1005BT	Op.	Op.	V2.0 or later
	UAFS-005A	for PVL-715RS	Op.	Op.	V2.0 or later
	UAFS-006A	for PVU-781VTE	Op.	Op.	V2.0 or later
	UAFS-007A	for PVU-475BT, PVU-475BTW	Op.	Op.	V2.0 or later
	UAFS-008A	for PLU-805BT, PVU-574BT	Op.	Op.	V2.0 or later
	UAFS-010A	for PLU-1202BT, PLU-2002BT	Op.	Op.	V2.0 or later
Auto Track CT	610-1228	CIVCO omniTRAX™ Active Patient Tracker. Should be purchased from CIVCO.	L/P	L/P	V2.0 or later
	610-1066	CIVCO General Purpose Electromagnetic Sensor. Should be purchased from CIVCO.			
Auto Track MR	610-1306	CIVCO omniTRAX™ MR Active Patient Tracker. Should be purchased from CIVCO.	L/P	L/P	V2.0 or later
	610-1066	CIVCO General Purpose Electromagnetic Sensor. Should be purchased from CIVCO.			
Smart Navigation sensor	610-1059	CIVCO omniTRAX™ Instrument Navigator. Should be purchased from CIVCO.	L/P	L/P	V2.0 or later
	610-1066	CIVCO General Purpose Electromagnetic Sensor. Should be purchased from CIVCO.			

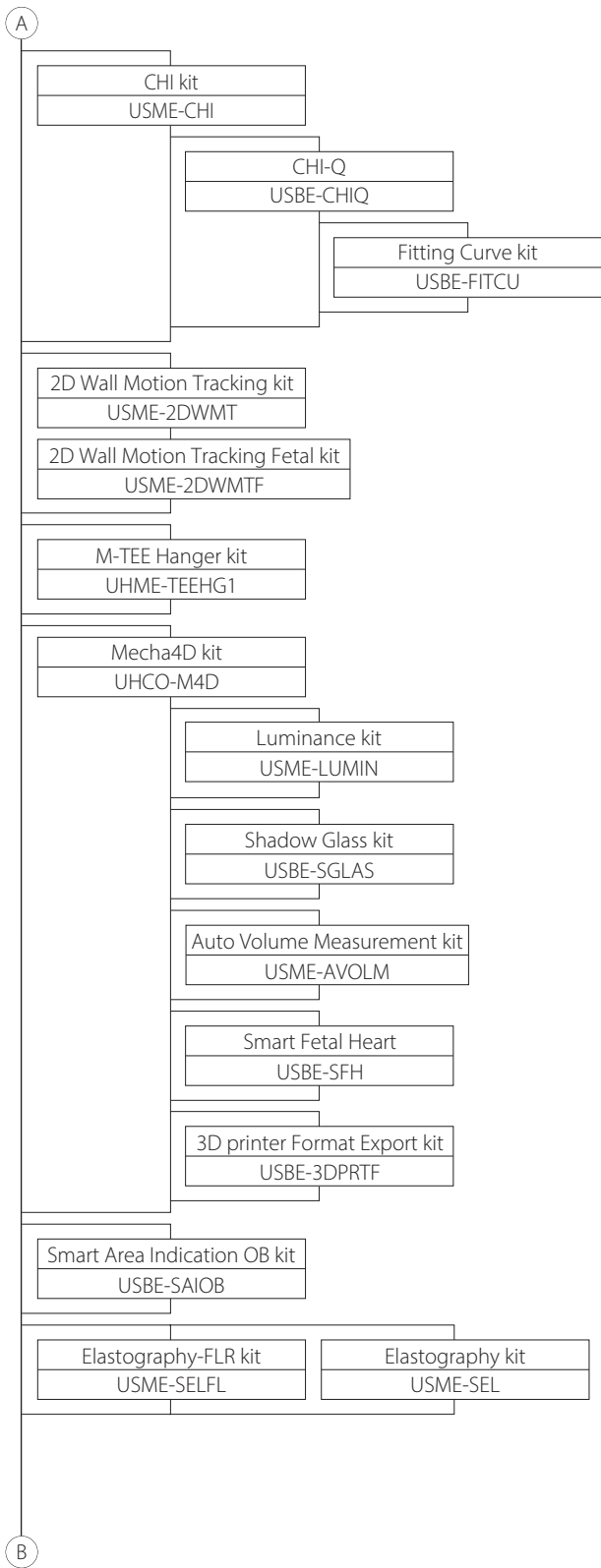
Unit	Model name	Remarks	Main unit		Note
			Aplio beyond	Aplio beyond WH model	
Auto Volume Measurement kit	USME-AVOLM, USME-AVOLM/EL	Used for calculating the volume by extracting the contours for regions with lower brightness in the 3D volume image acquired in 4D mode. Enables volume measurement, e.g., antral follicle count. (UHCO-M4D is required.)	Op.	Op.	V2.0 or later
Luminance kit	USME-LUMIN, USME-LUMIN/EL	Image processing technology that makes 3D/4D images of fetuses and anatomical structures appear more realistic. (UHCO-M4D is required.)	Op.	Std.	V2.0 or later
Shadow Glass kit	USBE-SGLAS, USBE-SGLAS/EL	Both superficial and deep structures in a specific region can be observed simultaneously by superimposing them. Simultaneous display with a color 4D image showing internal blood flow (CDI and SMI (Superb Micro-vascular Imaging)) is also possible. (UHCO-M4D is required.)	Op.	Op.	V2.0 or later
3D Printer Format Export kit	USBE-3DPRTF, USBE-3DPRTF/EL	This kit enables output of volume data for Smart 3D and Mecha4D to 3D printers.	Op.	Op.	V2.0 or later
Mecha4D unit	UHCO-M4D	This kit is required for using the 4D transducers and TEE transducer (PET-512MD).	Op.	Std.	V2.0 or later
Attenuation Imaging kit	USME-ATI, USME-ATI/EL	This kit enables visualization of ultrasound frequency-dependent attenuation coefficient within tissue.	Op.	Op.	V2.0 or later
Doppler Luminance kit	USBE-DLUMIN, USBE-DLUMIN/EL	This kit allows display of the pseudo color doppler in three dimensions.	Op.	Op.	V2.0 or later
General Imaging kit	USME-GIMG, USME-GIMG/EL	This kit allows usage of General Imaging. (Only for WH model.)	N/A	Op.	V2.0 or later
Liver Package Basic kit	USME-LVRP, USME-LVRP/EL	This kit includes the Shear Wave Elastography and Attenuation Imaging capability.	Op.	Op.	V2.0 or later
MicroPure kit	USME-MPURE, USME-MPURE/EL	This kit enables MicroPure, which supports visualization of small structures.	Op.	Op.	V2.0 or later
Panoramic View kit	USME-PANVI, USME-PANVI/EL	B/W images can be obtained with a wider field of view by moving the transducer in a lateral direction.	Op.	Op.	V2.0 or later
Superb Micro-vascular Imaging kit	USME-SMI, USME-SMI/EL	Visualizes low-velocity blood flow at a high frequency rate.	Op.	Std.	V2.0 or later
Mounting kit for Peripheral unit (AC/DC black-and-white digital printer)	UHBE-PERMPB	Mounting kit for B/W digital printer	Op.	Op.	V2.0 or later
Mounting kit for Peripheral unit (color digital printer)	UHBE-PERMPC	Mounting kit for Color digital printer This kit is not available with UHBE-BLTCVR. Not available with followings. UHBE-BLTCVR UHBE-MAGEN	Op.	Op.	V2.0 or later
Recorder unit	UHBE-REC1	Video recording device with mounting parts and cables	Op.	Op.	V2.0 or later
ApliGate kit	UIAG-001A	Video capture unit, HDMI to USB converter. (USME-AGATE1 is required.)	Op.	Op.	V2.0 or later
ApliGate Soft kit	USME-AGATE1, USME-AGATE1/EL	AplioGate software. (UIAG-001A is required.)	Op.	Op.	V2.0 or later
ApliCam kit	USME-APCAM, USME-APCAM/EL	Video clip captured by the camera (not included in the kit) which is connected to the main unit can be displayed on the screen as a picture-in-picture.	Op.	Op.	V2.0 or later
Multi Parametric Report kit	USME-MPR, USME-MPR/EL	This kit enables a combined report for the following liver applications: Shear Wave Elastography and Attenuation Imaging. (USME-SWE or USME-LVRP is required.)	Op.	Op.	V2.0 or later
Network Storage kit	USME-NSTRG, USME-NSTRG/EL	This kit enables large capacity RAW data management with NAS (Network Attached Storage) which is commercially available. (NAS itself is not included.)	Op.	Op.	V2.0 or later
Online Help kit	USME-OHELP, USME-OHELP/EL	Kit for displaying the operation manual on the viewing monitor.	Op.	Op.	V2.0 or later
Protocol Assistant	USME-PRASS, USME-PRASS/EL	A sequence of operations is registered, and each operation is executed by single switch operation. (This option is not required when the Stress Echo kit USME-STRES is mounted.)	Op.	Op.	V2.0 or later
Reference Image kit	USME-REFIM, USME-REFIM/EL	Software to enable images from a previous examination to be displayed at the right of the screen.	Op.	Op.	V2.0 or later
Security Management kit	USME-SECM	This kit provides software for security management of the system.	Op.	Op.	V2.0 or later
IOTA kit	USME-IOTA, USME-IOTA/EL	This kit enables International Ovarian Tumor Analysis. (Not available in the USA, Canada, China, Korea, Singapore, Malaysia, Russia and Saudi Arabia.)	Op.	Op.	V2.0 or later
Ultra High Freq kit	USME-UHF, USME-UHF/EL	This kit enables to use high frequency transducer, PLU-2002BT.	Op.	Op.	V2.0 or later
RADS kit	USBE-RADS, USBE-RADS/EL	This kit enables Reporting and Data System.	Op.	Op.	V2.0 or later
Battery Pack	UEBT-X200G	The battery pack provides operational power without being connected to a power outlet (Approx. 120 minutes). The battery pack can be used up to 2 units. Note that UEBT-X201G cannot be used at the same time.	Op.	Op.	V2.0 or later
	UEBT-X201G	Small capacity (Approx. 20 minutes) battery pack. The battery must be used solely.	Op.	Op.	
Mounting kit for battery	UHBE-BTRYM	This kit is necessary when installing the battery pack.	Op.	Op.	V2.0 or later

Unit	Model name	Remarks	Main unit		Note
			Aplio beyond	Aplio beyond WH model	
Mounting kit for 2nd battery	UHBE-BTRYM2	This kit is necessary when installing the 2nd battery pack. Only for UEBT-X200G. Only available when 1st battery is UEBT-X200G.	Op.	Op.	V2.0 or later
Palm Controller kit	UHCO-PT003A	Pointing device, dial on track ball allows easier Gain adjustment without reaching out for another buttons.	Op.	Op.	V2.0 or later
Bult-in cover	UHBE-BLTCVR	Cover for Reference Signal unit and/or Printers, Recorder unit. (Not available with UHBE-PERMP, UHBE-MAGEN at the same time.)	Op.	Op.	V2.0 or later
EV/ER Transducer Holder kit	UHME-ECHOLD	EV or ER transducer can be put on the left side of the operation panel.	Op.	Op.	V2.0 or later
Isolation Trans for LAN kit	UHME-ITLAN	Isolation trans for the LAN port for remote maintenance. Only for service use.	Op.	Op.	V2.0 or later
ECG Cable Hanger kit	UHME-REFCH	Hook used to hang the ECG cables on the front of the operating panel.	Op.	Op.	V2.0 or later
Transducer Cable hanger kit	UHBE-TCHAN	Expandable arm for hang transducer cables.	Op.	Op.	V2.0 or later
VIDEO kit	UHME-VPANE	Adds some video I/O ports (Composite video, Y/C video) on the rear panel.	Op.	Op.	V2.0 or later
Transducer Adaptor	UHME-TADPT	Transducer connector adaptor for PET-512MD and PET-835LA.	Op.	Op.	V2.0 or later
OLED Monitor unit	UIOM-001A	21.6-inch wide OLED Monitor to replace 23-inch LCD Monitor with LED back light.	Op.	Op.	V2.0 or later
Wireless LAN kit	UIWL-AI900A	This kit enables connection to the DICOM network via wireless LAN. (For Singapore, Russia, Australia, and Turkey.)	Op.	Op.	V2.0 or later
	UIWL-A500A	This kit used to establish connection to the DICOM network via wireless LAN. Complies with the Radio Law of Japan and applicable laws and regulations of USA, Canada, EU member states, Iceland, Norway, Liechtenstein, and Switzerland.	Op.	Op.	
	USB-AX56	The USB Wi-Fi® dongle supports Wi-Fi 6. (Purchase locally from ASUS distributor in your region, only available in Singapore, Malaysia, Costa Rica.)	L/P	L/P	
Foot Switch	UZFS-004A	Switch used for freezing, printing, and some other operations by foot.	Op.	Op.	V2.0 or later
Gel Warmer	UZGW-008A	This unit warms the ultrasound gel to a suitable temperature.	Op.	Op.	V2.0 or later
Local Language Key-TOP Kit (French)	UHFL-FRENCH	This kit is intended to change the key tops of the full keyboard to support specific languages.	Op.	Op.	V2.0 or later
Local Language Key-TOP Kit (German)	UHFL-GERMAN		Op.	Op.	
Local Language Key-TOP Kit (Italian)	UHFL-ITALIA		Op.	Op.	
Local Language Key-TOP Kit (Spanish)	UHFL-SPAIN		Op.	Op.	
Local Language Key-TOP Kit (Denmark)	UHFL-DANISH		Op.	Op.	
Local Language Key-TOP Kit (Norway)	UHFL-NORWAY		Op.	Op.	
Local Language Key-TOP Kit (Scandinavian)	UHFL-SCANDI		Op.	Op.	
Local Language Key-TOP Kit (Russian)	UHFL-RUSSIA		Op.	Op.	
Local Language Key-Top kit (Portuguese)	UHFL-PORTUG		Op.	Op.	
Local Language Key-Top kit (Hungarian)	UHFL-HNGRY		Op.	Op.	

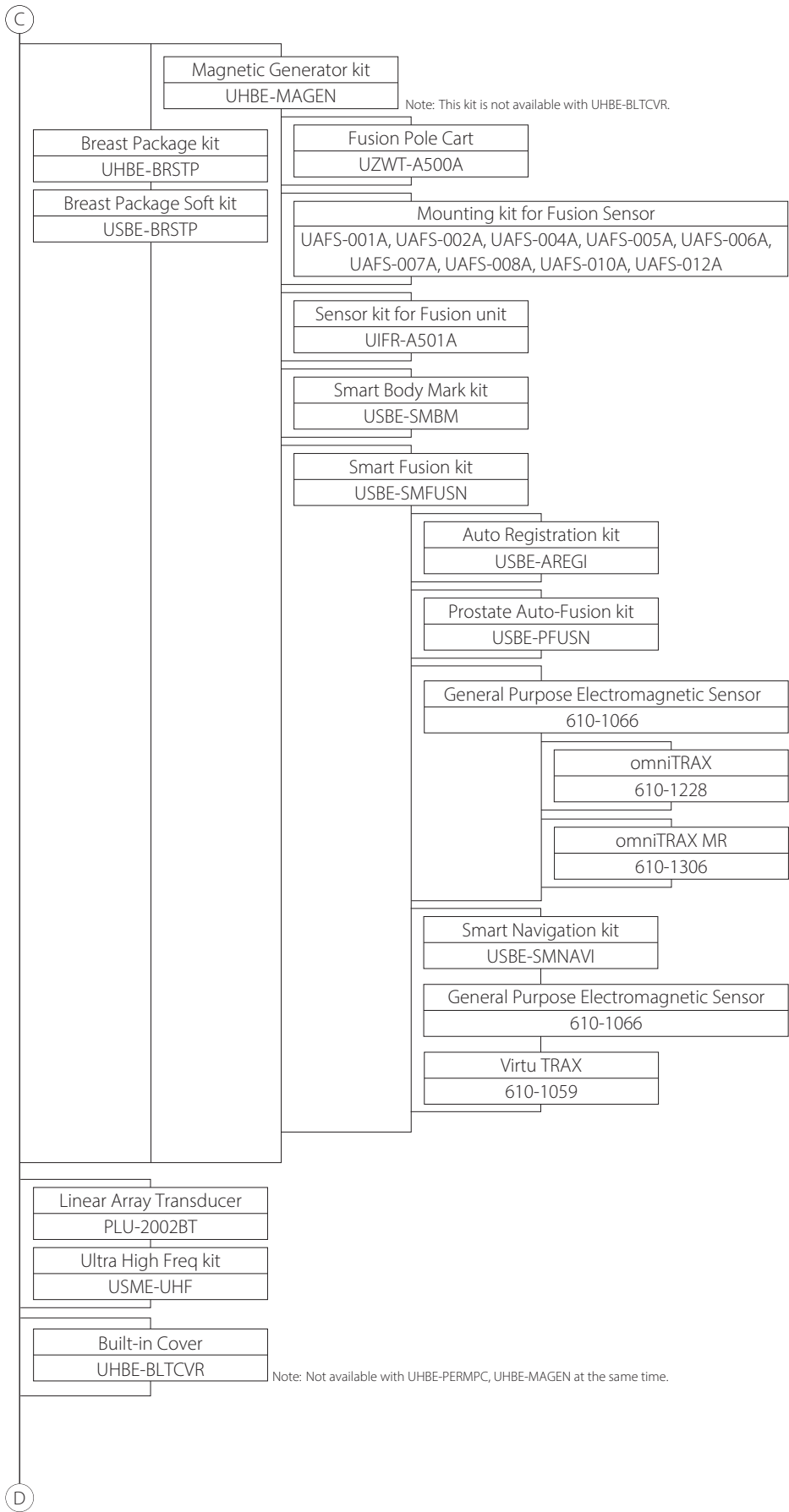
Op. : Optional  
Std. : Standard  
N/A : Not Applicable  
L/P : Local Purchase

**BLOCK CHART SYSTEMS**

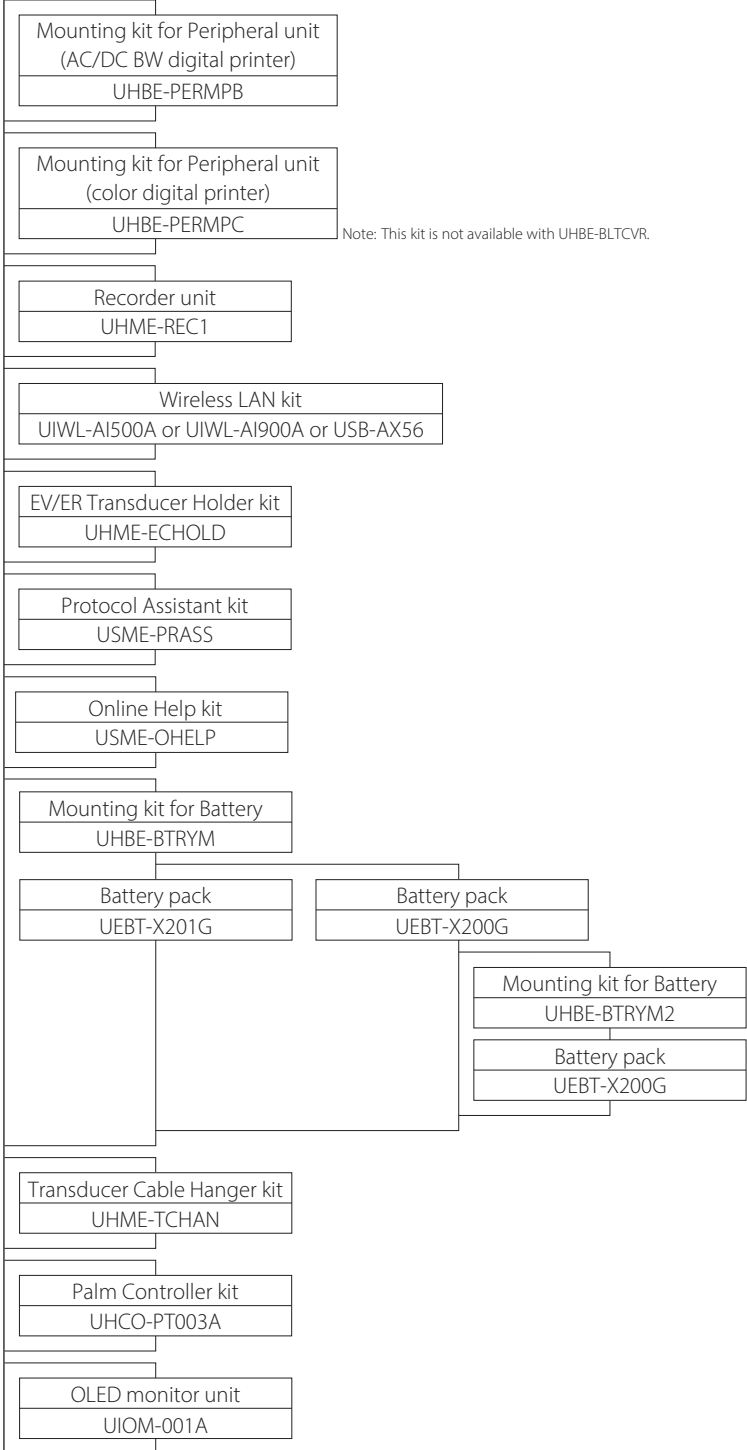






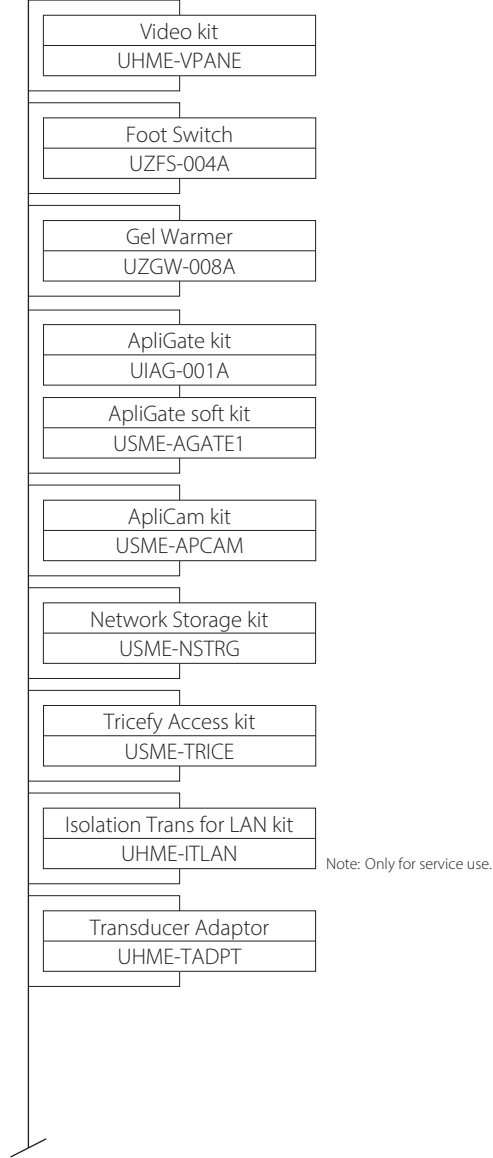


D



Note: This kit is not available with UHBE-BLTCVR.

E



Note: Only for service use.

E

**TRANSDUCER OPTIONS/OPERATION MODES**

Model name	Number of elements	Label	Freq. (MHz)	Display range of frequency (MHz)	2D	M	Precision Imaging	ApliPure	Ultra Wide View	Full Focus	Panoramic View	
PSU-28BT	–	6S1	3.0	1.5~6.0	✓	✓	✓	–	–	✓	✓	
PSU-30BT	90	5S2	3.0	1.7~5.2	✓	✓	✓	–	–	✓	✓	
PSU-50BT	96	6S3	5.0	3.0~8.2	✓	✓	✓	–	–	✓	✓	
PSU-70BT	128	10S4	7.0	3.5~9.0	✓	✓	✓	–	–	✓	✓	
PVL-715RS	Convex	128	11CL4	7.5	4.5~9.0	✓	✓	✓	✓	–	✓	✓
	Linear	128				✓	✓	✓	✓	–	✓	✓
PVU-350BTP	128	6CP1	3.5	2.0~4.5	✓	✓	✓	✓	–	✓	✓	
PVU-375BT	128	6C1	3.5	1.5~6.1	✓	✓	✓	✓	✓	✓	✓	
PVU-382BT	128	6MC1	3.5	1.8~5.0	✓	✓	✓	✓	–	✓	✓	
PVU-475BT	192	8C1	4.0	1.8~6.4	✓	✓	✓	✓	✓	✓	✓	
PVU-475BTW	–	8CW1	4.0	1.8~6.4	✓	✓	✓	✓	✓	✓	✓	
PVU-574BT	–	10C1	5.0	2.0~9.7	✓	✓	✓	✓	✓	✓	✓	
PVU-674BT	192	10C3	6.0	3.5~9.7	✓	✓	✓	✓	–	✓	✓	
PVU-674MVS	128	9CV2	6.0	2.5~7.5	✓	✓	✓	✓	–	✓	✓	
PVU-681MVL	192	11CV3	6.0	3.6~11.0	✓	✓	✓	✓	–	✓	✓	
PVU-712BTE	128	11MC3	7.0	3.3~11.0	✓	✓	✓	✓	–	✓	✓	
PVU-745BTF	128	11C4	7.0	3.0~10.0	✓	✓	✓	✓	–	✓	✓	
PVU-745BTH	128	11C4	7.0	3.0~10.0	✓	✓	✓	✓	–	✓	✓	
PVU-745BTV	128	11C4	7.0	3.2~10.0	✓	✓	✓	✓	–	✓	✓	
PVU-781VTE	150	11C3	7.0	3.6~11.0	✓	✓	✓	✓	–	✓	✓	
PLU-308BTP	128	6LP3	3.75	2.0~5.5	✓	✓	✓	✓	–	✓	–	
PLU-704BT	128	11L4	7.0	3.0~8.5	✓	✓	✓	✓	–	✓	✓	
PLU-705BTF	192	11L4	7.0	3.8~8.4	✓	✓	✓	✓	–	✓	✓	
PLU-705BTH	192	11L4	7.0	3.8~8.4	✓	✓	✓	✓	–	✓	✓	
PLU-805BT	244	12L4	8.0	3.0~12.0	✓	✓	✓	✓	✓	✓	✓	
PLU-1005BT	192	14L5	10.0	3.8~14.5	✓	✓	✓	✓	–	✓	✓	
PLU-1202BT	128	17LH7	12.0	4.5~17.0	✓	✓	✓	✓	–	✓	✓	
PLU-1204BT	192	18L7	12.0	4.5~18.0	✓	✓	✓	✓	–	✓	✓	
PLU-1204BX	–	18LX7	12.0	4.5~18.0	✓	✓	✓	✓	–	✓	✓	
PLU-2002BT	160	22LH8	20.0	8.8~22.0	✓	✓	✓	✓	–	✓	✓	
PET-512MD	64	8SM2	5.0	3.0~8.5	✓	✓	✓	–	–	✓	–	
PET-835LA	–	12C4	8.0	3.5~9.0	✓	✓	✓	✓	–	✓	✓	
PC-20M	–	P2	2.0	–	–	–	–	–	–	–	–	
PC-50M	–	P5	5.0	–	–	–	–	–	–	–	–	

\*1: UHCO-M4D is required.

\*2: USME-UHF is required.

\*3: UHME-TADPT is required.

\*4: UHBE-PENCL is required.

\*5: Not available in the USA and Canada.

\*6: Using single crystal technology.

\*7: Not available in the USA.

**TRANSDUCER OPTIONS/OPERATION MODES**

Model name	MicroPure	BEAM	CDI	Power	SMI/ADF	TDI	Elastography	SWE	ATI	PWD	CWD
PSU-28BT	-	-	✓	✓	✓	✓	-	-	-	✓	✓
PSU-30BT	-	-	✓	✓	✓	✓	-	-	-	✓	✓
PSU-50BT	-	-	✓	✓	✓	✓	-	-	-	✓	✓
PSU-70BT	-	-	✓	✓	✓	✓	-	-	-	✓	✓
PVL-715RS	Convex	-	✓	✓	✓	-	-	-	-	✓	-
	Linear	-	✓	✓	✓	-	-	-	-	✓	-
PVU-350BTP	-	-	✓	✓	✓	-	-	-	-	✓	-
PVU-375BT	-	-	✓	✓	✓	-	-	✓	✓	✓	-
PVU-382BT	-	-	✓	✓	✓	-	-	-	-	✓	-
PVU-475BT	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-
PVU-475BTW	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-
PVU-574BT	-	-	✓	✓	✓	✓	-	✓	-	✓	-
PVU-674BT	-	-	✓	✓	✓	✓	-	-	-	✓	-
PVU-674MVS	-	-	✓	✓	✓	-	-	-	-	✓	-
PVU-681MVL	-	-	✓	✓	✓	-	✓	-	-	✓	-
PVU-712BTE	-	-	✓	✓	✓	-	-	-	-	✓	-
PVU-745BTF	-	-	✓	✓	✓	-	-	-	-	✓	-
PVU-745BTH	-	-	✓	✓	✓	-	-	-	-	✓	-
PVU-745BTV	-	-	✓	✓	✓	-	-	-	-	✓	-
PVU-781VTE	-	-	✓	✓	✓	-	-	-	-	✓	-
PLU-308BTP	-	-	✓	✓	✓	-	-	-	-	✓	-
PLU-704BT	-	✓	✓	✓	✓	-	-	-	-	✓	-
PLU-705BTF	-	-	✓	✓	✓	-	-	-	-	✓	-
PLU-705BTH	-	-	✓	✓	✓	-	-	-	-	✓	-
PLU-805BT	-	✓*7	✓	✓	✓	-	✓	-	-	✓	-
PLU-1005BT	✓	✓	✓	✓	✓	-	✓	✓	-	✓	-
PLU-1202BT	-	-	✓	✓	✓	-	✓	-	-	✓	-
PLU-1204BT	✓	✓	✓	✓	✓	-	✓	-	-	✓	-
PLU-1204BX	✓	✓*7	✓	✓	✓	-	✓	-	-	✓	-
PLU-2002BT	-	-	✓	✓	✓	-	-	-	-	✓	-
PET-512MD	-	-	✓	-	-	✓	-	-	-	✓	✓
PET-835LA	-	-	✓	✓	✓	-	✓	-	-	✓	-
PC-20M	-	-	-	-	-	-	-	-	-	-	✓
PC-50M	-	-	-	-	-	-	-	-	-	-	✓

\*1: UHCO-M4D is required.

\*2: USME-UHF is required.

\*3: UHME-TADPT is required.

\*4: UHBE-PENCL is required.

\*5: Not available in the USA and Canada.

\*6: Using single crystal technology.

\*7: Not available in the USA.

**TRANSDUCER OPTIONS/OPERATION MODES**

Model name	2D WMT	CHI				4D	STIC	STIC Color	Smart 3D	Remarks	Applicable Version
		2D	MFI	ADF	SMI						
PSU-28BT	✓	✓	✓	-	-	-	-	-	-	*6	V2.0 or later
PSU-30BT	✓	✓	✓	-	-	-	-	-	-	-	V2.0 or later
PSU-50BT	✓	-	-	-	-	-	-	-	-	-	V2.0 or later
PSU-70BT	✓	✓	✓	-	-	-	-	-	-	-	V2.0 or later
PVL-715RS	Convex	-	✓	✓	-	-	-	-	-	-	V2.0 or later
	Linear	-	-	-	-	-	-	-	-	-	V2.0 or later
PVU-350BTP	-	✓	✓	✓	✓	-	-	-	✓	*5	V2.0 or later
PVU-375BT	-	✓	✓	✓	✓	-	-	-	✓	-	V2.0 or later
PVU-382BT	-	✓	✓	✓	✓	-	-	-	✓	-	V2.0 or later
PVU-475BT	-	✓	✓	✓	✓	-	-	-	✓	*6	V2.0 or later
PVU-475BTW	-	✓	✓	✓	✓	-	-	-	✓	*6	V2.0 or later
PVU-574BT	-	✓	✓	✓	✓	-	-	-	✓	*6	V2.0 or later
PVU-674BT	-	✓	✓	-	✓	-	-	-	✓	-	V2.0 or later
PVU-674MVS	-	-	-	-	-	✓	✓	✓	-	*1	V2.0 or later
PVU-681MVL	-	✓	✓	-	✓	✓	-	-	-	*1	V2.0 or later
PVU-712BTE	-	-	-	-	-	-	-	-	✓	-	V2.0 or later
PVU-745BTF	-	✓	✓	-	-	-	-	-	✓	-	V2.0 or later
PVU-745BTH	-	✓	✓	-	-	-	-	-	✓	-	V2.0 or later
PVU-745BTV	-	-	-	-	-	-	-	-	✓	-	V2.0 or later
PVU-781VTE	-	✓	✓	-	✓	-	-	-	✓	-	V2.0 or later
PLU-308BTP	-	-	-	-	-	-	-	-	✓	*5	V2.0 or later
PLU-704BT	-	✓	✓	-	✓	-	-	-	✓	-	V2.0 or later
PLU-705BTF	-	✓	✓	-	-	-	-	-	✓	-	V2.0 or later
PLU-705BTH	-	✓	✓	-	-	-	-	-	✓	-	V2.0 or later
PLU-805BT	-	✓	✓	-	✓	-	-	-	✓	-	V2.0 or later
PLU-1005BT	-	✓	✓	✓	✓	-	-	-	✓	-	V2.0 or later
PLU-1202BT	-	✓*7	✓*7	-	-	-	-	-	✓	-	V2.0 or later
PLU-1204BT	-	✓	✓	-	✓	-	-	-	✓	-	V2.0 or later
PLU-1204BX	-	✓*7	✓*7	-	✓*7	-	-	-	✓	-	V2.0 or later
PLU-2002BT	-	✓*7	✓*7	-	✓*7	-	-	-	✓	*2	V2.0 or later
PET-512MD	✓*7	-	-	-	-	-	-	-	-	*1, *3 TEE	V2.0 or later
PET-835LA	-	✓	✓	-	✓	-	-	-	✓	*3 LAPA	V2.0 or later
PC-20M	-	-	-	-	-	-	-	-	-	*4 Pencil	V2.0 or later
PC-50M	-	-	-	-	-	-	-	-	-	*4 Pencil	V2.0 or later

\*1: UHCO-M4D is required.

\*2: USME-UHF is required.

\*3: UHME-TADPT is required.

\*4: UHBE-PENCL is required.

\*5: Not available in the USA and Canada.

\*6: Using single crystal technology.

\*7: Not available in the USA.

## SPECIFICATIONS

### System

- Scan methods
  - Linear scan  
(some transducers can perform oblique scanning.)
  - Sector scan
  - Convex scan
  - Trapezoid scan
  - Curved vector scan
- Monitor
  - High-definition 23-inch Wide LCD monitor with LED backlight
    - Resolution: 1920 × 1080 (Full HD)
    - Viewing angle: 178 degrees
    - Contrast ratio: typ. 1200: 1
    - Response time (ms): typ. 16
    - Luminance (cd/m<sup>2</sup>): More than 200
    - Conformance Standard: DICOM Part 14
  - 4K 21.6-inch Wide OLED monitor (UIOM-001A is required.)
    - Resolution: 3840 × 2160
    - Viewing angle: 178 degrees \*CR ≥ 10
    - Contrast ratio: typ. 1000000: 1
    - Response time (μs): typ. 40 (30 + 10)  
\*Black → White → Black
    - Luminance (cd/m<sup>2</sup>): typ. 200 (7500 K)  
typ. 145 (13000 K)
    - Conformance Standard: DICOM Part 14
- Presets
  - System preset: 1 type

### Compatible Peripheral Devices

- Black-and-white digital printer
    - UP-D711MD: DC (12 V to 24 V, SONY)
    - UP-D898MD: AC (100 V to 240 V, SONY)
    - UP-D898DC: DC (12 V to 24 V, SONY)
  - Color digital printer
    - UP-D25MD: AC (100 V to 240 V, SONY)
  - Recorder unit
    - UHBE-REC1: DC (12 V)
  - USB flash drive
  - Barcode reader
- Note: Regions where CE marking is applicable (Europe, Australia, and Turkey) are not supported.
- Camera
    - Applicable OS: Windows® 10
    - Interface: USB2.0 type-A
    - Aspect ratio: 4:3
    - Resolution: 640:480 pixel or more
    - Driver: Compatible with the driver installed in Windows® 10.

### 2D mode (B mode)

- Viewing Depth
  - The viewing depth depends on the transducer used.

- Convex
  - Minimum depth: 2 cm
  - Maximum depth: 50 cm
- Linear
  - Minimum depth: 1 cm
  - Maximum depth: 28 cm
- Sector
  - Minimum depth: 1 cm
  - Maximum depth: 28 cm
- Line density
  - The line density differs depending on the transducer used.
  - The line density can be changed.
- Ultrasound Frame Rate
  - The ultrasound frame rate can be adjusted by using the following in combination.
    - Line density
    - Parallel signal processing
- Scan Angle and Scan Width
  - Adjustment of the field width (scan width, scan angle) is possible.
  - Adjustment of beam steering (scanning position) is possible.
  - Adjustment of linear beam steering is possible.
- PAN/EXPAND
  - Real-time PAN/EXPAND
    - Scale enlargement/reduction using the encoder is possible.
    - Movement to the desired section using the trackball is possible.
    - The transmission focus is optimized in steps above.
    - The specified range of an image can be magnified (Spot Zoom).
- Transmission Focus
  - Transmission conditions: A maximum of 8 steps  
Full focus can be selected.
- Transmission Frequency
  - Multi frequency: 3 frequencies can be selected from 13 types.
- GAIN
  - The display brightness for 2D can be changed.  
(Also available when the image is frozen.)
  - The display brightness for 2D and M can be changed simultaneously.
- STC
  - Software STC
    - Depth direction from the body surface: 8-step slide controls  
(common for 2D and M)
    - Lateral direction in the image: 6-step slide controls  
(common for 2D and M)
  - Hardware STC
    - 8-step slide controls (common for 2D and M)
- Acoustic Output
  - Adjustment is possible to 100%.

- Adjusting the 2D Image Quality
    - Dynamic range (Also available when the image is frozen)
    - Time-smoothing (Persistence)
    - Gamma (Also available when the image is frozen)
    - Auto gain control
    - Frame rate
    - ApliPure
    - Precision
  - 2D Map
    - The grayscale pattern can be changed and virtual color setting for the 2D image is possible.
    - Settings can also be changed when the image is frozen.
  - 2D Quick Scan
    - The gain and STC can be adjusted automatically.
  - THI (Tissue Harmonic Imaging)
    - THI signal processing methods
      - Pulse Subtraction method
      - Filtering method
      - Differential method
  - Display Orientation
    - Top/bottom reversal is possible.
    - Left/right reversal is possible.
  - Image Size
    - The displayed image size can be switched between small and large.
  - ApliPure
    - ApliPure  
This function reduces ultrasound wave interference within tissues, which appear as speckle patterns or speckle noise on 2D images.
    - ApliPure Plus  
This function can display the boundaries between tissues more clearly and reduce speckle noise and acoustic shadows.
  - MicroPure (USME-MPURE is required.)
    - Small structures can be extracted by performing filtering for 2D-mode images.
    - Visualization of very small calcifications and other extremely small lesions can be improved.
  - Precision Imaging
    - Precision Plus
      - Structures in 2D-mode images can be displayed more clearly and the background can be displayed more smoothly.
      - Saturation in high-intensity regions of tissue structures is reduced, allowing the tissue structures to be displayed in a more natural manner.
      - Operating the Precision Imaging index can automatically change the mode to Precision Plus Fine Processing mode. This mode provides stronger edge enhancement and speckle reduction effects compared to Precision Plus (Only limited transducers).
  - TSO (Tissue Specific Optimization)
    - Reception focus compensation can be performed.
    - Automatic reception focus compensation can be performed. (Auto TSO)
  - BEAM (Biopsy Enhancement Auto Mode)
    - Display of the needle can be enhanced in the image.
    - The enhancement level can be adjusted.
  - Doppler Luminance (USBE-DLUMIN is required.)
    - Doppler Luminance is a function for displaying 3D images created from 2D color images acquired in Color modes (CDI/Power/ADF/SMI(Superb Micro-vascular Imaging)).
- ### M Mode
- M Transmission Frequency
    - Multi frequency: 5 types (at maximum)
  - M Sweep Speed
    - The Sweep Speed can be changed in M mode.
  - M Gain
    - M gain can be corrected for 2D gain.
  - M Image Processing Parameters
    - M dynamic range (Can be changed even after the image has been frozen.)
    - M auto gain control
    - M gamma (Can be changed even after the image has been frozen.)
  - M Map
    - M image virtual color setting is possible. The setting can be changed even after the image has been frozen.
  - THI (Tissue Harmonic Imaging)
    - 2D mode and THI mode are linked, and M images can be displayed in THI mode.
      - Pulse subtraction method
      - Filtering method
      - Differential method
  - M Mark
    - The M cursor can be displayed on 2D or C images.
    - The M cursor displayed position can be adjusted.
  - Flex-M
    - Any desired plane can be set on the 2D-mode image and the M-mode image for the set plane can be reconstructed.
- ### Doppler (Spectrum Doppler)
- Doppler Mode
    - PWD (pulsed-wave Doppler)
    - HPRF PWD (Can be switched to HPRF mode.)
    - CWD (continuous-wave Doppler)  
(UHFL-CW is required.)
    - Pencil CWD (pencil-type transducer)  
(UHBE-PENCL is required.)
  - Doppler PRF (Pulse Repetition Frequency)
    - PWD: 0.3 kHz to 52.1 kHz
    - CWD: 1.4 kHz to 52.1 kHz  
(UHFL-CW is required.)
  - Doppler Scan
    - 2D/D simultaneous scan
    - D only scan
  - Doppler Sampling Volume
    - The Doppler range gate width can be changed (minimum 0.3 mm).
  - Doppler Sampling Shift
    - 0 cm to the maximum depth

- Doppler Cursor Mode
  - Operation for the 2D live image is possible with the Doppler sampling volume displayed in it.
- Doppler Filter
  - The Doppler filter cutoff can be changed.
- Doppler Gain
  - The display brightness for Doppler can be changed.
- Doppler Quick Scan
  - The Doppler scale and baseline shift can be adjusted automatically.
- Doppler Frequency Analysis and Image Processing
  - Method: FFT
  - No. of data items: 255 (maximum)
- Indication of Doppler Spectrum Direction
  - Reverse display of the velocity spectrum is possible.
- Doppler Baseline Shift (Zero Shift)
  - The velocity baseline of Doppler images can be shifted.
  - The baseline shift setting can also be adjusted when images that were frozen are displayed.
- Doppler Audio
  - Stereo output (blood flow toward and away from the transducer)
- Doppler Map
  - The brightness conversion table and the virtual color for Doppler images can be set.
- Display of Doppler Scale
  - 2 types (velocity, Doppler shift frequency)
- Doppler Focus
  - Automatically follows the sample position.
- Doppler Angle Mark
  - This mark is displayed for measuring the angle between the direction of the velocity and the direction of the ultrasound beam.
- Doppler Oblique Scan (PWD Steering)
  - Oblique scans are possible using a specific linear transducer.
  - Auto Invert function
- Doppler Multifrequency
  - The PWD transmission frequency can be changed.
- Doppler Sweep Speed
  - The Sweep Speed can be changed in Doppler mode.
- Doppler Display Dynamic Range
  - The display dynamic range of the Doppler image can be changed.
- Doppler Auto Trace (measurement performed after freezing the image)
  - Measurement of peak velocity and mean velocity is possible by automatic velocity tracing.
  - The following Doppler waveform trace is possible.
  - Trace style: Doppler waveform Peak, Mean, Peak + Mean
  - Trace area specified: Forward, Reverse, Full, Auto
  - Measurement item: Max, Min, Mean, PI, RI, etc.

## Color Doppler

### Color Doppler Mode

- Display mode
  - CDI mode
    - Flow velocity
    - Flow velocity/variance
    - Power
  - Power Angio mode
  - TDI mode
  - TwinView
    - Simultaneous dual-screen display with 2D mode is available.
  - SMI (Superb Micro-vascular Imaging) mode (USME-SMI is required.)
    - Clutter suppressed
    - Blood flow enhanced
  - ADF (Dynamic Flow) mode
    - Direction display
- C Map
  - C map can be selected for each color Doppler mode.
  - Changes can also be made when the image is frozen.
- C Scale (Switching the Velocity Range)
  - The velocity range can be changed.
- C Time-Smoothing (Persistence)
  - The result of temporal correlation processing between the previous image and current image can be displayed.
- C Baseline (Zero Shift)
  - The velocity baseline of color Doppler images can be shifted.
  - The baseline shift setting can also be adjusted when images that were frozen or images in the image memory are displayed.
- Reverse C Display
  - Coloring is reversed.
  - Changes can also be made when the image is frozen.
- Black and White/Color Balance
  - By comparing the color Doppler images and B/W images, color weighting to B/W can be set.
  - Changes can also be made when the image is frozen.
- C Gain
  - The display brightness of color Doppler images can be changed.
- C Multi-frequency
  - The transmission frequency for color Doppler image acquisition can be changed.
- C Line Density
  - The color Doppler image line density can be changed.
- C ROI (Region of Interest)
  - Position, size, and steering adjustment is possible for color Doppler ROIs.
- C Transmit Focus
  - Automatically follows the color Doppler ROI position.
- C Filter
  - Color Doppler low-cut filter can be changed.
- Variance Curve
  - The display of the color variance component can be adjusted.

- Color Quick Scan
  - The following operations are possible when a linear transducer is used.
    - The position of a color ROI and angle of color steering are adjusted automatically.
    - When PWD sampling volume is displayed, the Doppler gate position, Doppler steering angle, and Doppler angle are adjusted automatically.

### **Color Doppler M mode**

- Display mode
  - M-mode CDI
    - Velocity display
    - Velocity/variance display
    - Power display
  - M-TDI mode
- M Color Doppler Map (CDI MAP)
  - Color Doppler map can be selected for each mode.
- M Color Doppler Velocity Range Selection (C Scale)
  - The velocity range can be changed.
- M Color Doppler Baseline (C Baseline)
  - The zero-velocity line on the M Color Doppler image can be shifted.
  - The baseline shift setting can also be adjusted when images that were frozen are displayed or when the image in the image memory is played back.
- Color Reverse Display
  - The colors can be reversed.
  - Changes can also be made when the image is frozen.
- Black and White/Color Balance
  - Color weighting for B/W images can be set by comparing the M Color Doppler images and B/W images.
  - Changes can also be made when the image is frozen.
- Color Gain
  - The display brightness of the M Color Doppler image can be changed.
- M Color Doppler Multi-Frequency
  - Doppler transmission frequency can be selected in M Color Doppler image acquisition.
- M Color Doppler Filter
  - M Color Doppler low-cut filter can be changed.

### **Reference Signals**

(UHBE-REFSG and UJUR-AI900A are required.)

- Type
  - Electrocardiogram (ECG)
    - Lead I is the standard connection.
    - External input is possible.
    - DC IN:
      - The connected device must comply with IEC 60601-1.
    - Top/bottom inversion is possible.
    - Lead switching
    - Pacemaker
    - INST
  - Phonocardiogram (PCG)
    - (UJUR-AI902A is required.)
    - PCG microphone: Acceleration type
    - Filter: Switching is possible.

- Pulse (UJUR-AI902A is required.)
  - Pulse transducer: Air conduction type
- Respiration
  - Impedance method using the Reference Signal cable
- Heart Rate
  - The heart mark blinks in synchronization with the heart beat detected by the ECG.
  - The heart rate is displayed.
- Reference Signal Sweep Speed
  - This changes the reference signal sweep speed.

### **OTHER DIAGNOSTIC FUNCTION**

- CHI (Contrast Harmonic Imaging) (USME-CHI is required.)
  - The second-harmonic wave signals from the microbubbles in the contrast medium can be effectively visualized.
  - The following image modes can be selected.
    - PS (Pulse Subtraction)-Low, PS-Low2
    - Fundamental
    - CHI ADF
    - SMI (Superb Micro-vascular Imaging) (USME-SMI is required.)
  - The following functions can be selected.
    - 2D TwinView
    - MFI (Micro Flow Imaging)
    - Image Stabilizer
    - MI Constant function
- Parametric MFI
  - Temporal information can be displayed as a color map superimposed on images acquired by 2D mode (without CHI starting up), ADF/SMI (Superb Micro-vascular Imaging) mode, and CHI mode (contrast image for the period from the start of contrast medium injection to the time when the contrast medium reaches the target region).
  - The following functions are available.
    - MFI
    - Image Stabilizer
- Mechanical 4D (UHCO-M4D is required.)
  - Three-dimensional image data (volume data) can be generated and displayed by using image data acquired for three-dimensional image reconstruction.
  - The following functions can be used.
    - Volume Color
    - Multi View
    - Volume View
    - VolPure
    - Magic Cut
    - STIC/STIC Color
    - Luminance (USME-LUMIN is required.)
    - Shadow Glass (USBE-SGLAS is required.)
    - OmniView
    - Auto flexible cut line
    - STL export (USBE-3DPRTF is required.)
  - The following measurements can be performed.
    - MPR
    - Auto Volume Measurement (USME-AVOLM is required.)

- Stress Echo (USME-STRES and UHBE-REFSG are required.)  
Exercise and pharmacological stress echo examinations can be performed.
  - Data acquisition mode  
This mode is intended for selecting and creating protocols.
  - Review mode  
This mode provides playback function / data output function / WMS (Wall Motion Scoring) function.
- Panoramic View (USME-PANVI is required.)
  - A continuous image can be acquired by moving the transducer horizontally on the body surface.
  - Measurement using Panoramic View can be performed.
- Elastography (USME-SELFL or USME-SEL is required.)
  - Tissue stiffness can be visualized based on the changes in velocity resulting from physical compression and decompression of the target region.
  - FLR measurement can be performed to calculate the strain within the set ROI.
- VI (Vascularity Index)
  - The number of pixels in the Power image and within the ROI, the area of the Power image and of the ROI, and the ratio of the number of pixels in the Power image to the number of pixels within the ROI can be displayed for an image acquired in Power mode. This function can be used when a linear or convex transducer is selected.
- Histogram
  - The number of pixels, average gradation, standard deviation, and brightness distribution inside the ROI in the image acquired with 2D mode are displayed.
- Fusion (Smart Fusion) (USBE-SMFUSN and UHBE-MAGEN are required.)  
Synchronization of ultrasound scanning with CT/MRI image display adjusted according to the examination position determined using a magnetic sensor attached to the transducer can be performed.
  - The following video modes can be selected.
    - 2D mode (B mode)
    - Color Doppler
    - PWD
    - CWD (UHFL-CW is required.)
    - CHI (USME-CHI is required.)
    - Elastography (USME-SELFL or USME-SEL is required.)
  - The following image data can be referred to:
    - CT
    - MR
    - PET
  - The following functions can be used.
    - Blend display
    - Segment display
    - Multiplane display (Triple display)
    - Multivolume display (Quad display)
    - 3D body mark display (Quad display)
    - Auto Registration (USBE-AREGI is required.)
    - Auto Track (610-1066, 610-1228 and/or 610-1306 are required.)
  - The following measurements can be performed.
    - Basic measurement
    - Cardiac measurement (for ultrasound live image)
- Protocol Assistant (USME-PRASS is required.)
  - A series of operations (a protocol) that has been created for the intended examination can be executed automatically. Protocols can be created and edited.
- Shear Wave (USME-SWE is required.)  
Images representing the speed of propagation of tissue displacement (Shear Wave speed) can be visualized (Shear Wave scan) by locally displacing tissues by transmitting a burst wave with high acoustic pressure.
  - The following Shear wave display modes are available.
    - Speed: Shear wave speed display (m/s)
    - Elasticity: Elasticity display (kPa)
    - Propagation: Propagation display
  - ECG Sync Acquisition function can be used.
  - Shear Wave measurement can be performed.
- ATI (Attenuation Imaging) (USME-ATI is required.)
  - The ultrasound wave attenuation can be displayed in color parametric and measured.
- Smart 3D  
3D image can be generated from the 2D image and any input volume shape.
  - The following functions can be used.
    - Volume Color
    - Multi View
    - Volume View
    - Magic Cut
    - OmniView
    - CHI (USME-CHI is required.)
    - STL export (USBE-3DPRTF is required.)
- Reference (USME-REFIM is required.)  
The ultrasound images of the current examination and the previously acquired image of the patient can be displayed simultaneously.
  - The following video modes can be selected.
    - 2D mode (B mode)
    - Color Doppler
    - MicroPure (USME-MPURE is required.)
  - The following image data can be referred to.
    - Still image (US image, raw data) acquired using CUS-ABE00
    - Dynamic image (raw data) acquired using CUS-ABE00
    - CT
    - MR
    - MG
    - PET
  - The following function is available.
    - Breast scan guide (USBE-BSGID is required.)
  - The following measurement can be performed.
    - Basic measurement
- Smart Area Indication (OB) (USBE-SAI0B is required.)  
The Smart Area Indication (OB) function is used in obstetrics to detect fetal measurement regions based on signals in images.
  - The following measurements are available.
    - BPD
    - HC
    - AC
    - FL

- The following transducer supports Smart Area Indication (OB).
  - PVU-475BTW
  - PVU-674MVS
  - PVU-574BT
- Smart Body Mark (USB-SMBM and UHBE-MAGEN are required.)
 

Smart Body Mark is a function to display positional information of the transducer on the screen using a magnetic sensor attached to the transducer for breast and for abdomen.

The following transducers can be used for this option.

  - For breast
    - PLU-805BT
    - PLU-1005BT
    - PLU-1204BX
  - For abdomen
    - PVU-375BT
    - PVU-475BT
    - PVU-475BTW
    - PVU-574BT

## Display-Related Features

- Display Method
    - Images on the main unit: 60 Hz non-interlaced display
    - Images from external playback devices: 60 Hz non-interlaced display
  - Monitor Display/Character Display
    - ID area
      - Patient ID
      - Patient name
      - Hospital name
      - Date: Selected from among the formats shown below.
        - YYYY/MM/DD
        - MM/DD/YYYY
        - DD/MM/YYYY
        - YYYY: Western calendar year
        - MM: Month
        - DD: Day
    - Time: Selected from among the formats shown below.
      - hh:mm:ss: AM (PM)
      - hh:mm:ss: 24-hour representation
      - hh: Hour
      - mm: Minute
      - ss: Second
  - Recorder mark
  - Age
  - Sex
  - Heart rate display (heart-shaped mark/heart rate)
  - Name of the Imaging Preset
  - Name of the operator
  - Gestational age
  - Acoustic power display area
    - Acoustic power value (%)
    - TI value
- Auto data
  - Frame rate
  - Acoustic power index = MI indication
  - Transducer frequency
  - Depth
  - Dynamic range
  - GAIN
  - CDI filter
  - PRF
  - Doppler filter
  - Doppler angle
  - Doppler gate size
- Thumbnail area
  - Image data acquired during the current examination is displayed.
  - Information from a previous examination of the patient currently being examined is displayed.
- Information message display area
  - An operation guide and other messages are displayed.
- Status area
 

The following system statuses can be displayed.

  - Battery capacity
  - DVD/CD writing progress
  - Network use status
  - NAS connection
  - Used space on SSD
  - Saving dynamic/still image
  - DICOM printer status / peripheral device status
  - USB flash drive status display
- Multifunction display area
  - Assignment statuses for trackball and surrounding switches and dials
- Annotation
  - Manual input using the keyboard is possible.
  - Auto annotation (previously specified text) is possible.
- Pictograms
  - Body icons and transducer mark
- Biopsy Guide Mark
  - Biopsy guide mark display is possible.
- Touch Panel (TCS: Touch Command Screen)
  - 12.1-inch LCD monitor: SXGA (1280 × 800)
  - The touch panel tilt angle can be changed by 11°.
- Language
  - The following languages are supported for the display of some screens and keyboard entry.

Supported languages	Screen display	Input by software keyboard	Input by hardware keyboard
English	✓	✓	✓
English (UK)	✓	✓ (same as "English")	✓ (same as "English")
German	✓	✓	✓
French	✓	✓	✓
Italian	✓	✓	✓
Spanish	✓	✓	✓
Danish	✓	✓	✓
Dutch	✓	–	–
Norwegian	✓	✓	✓
Swedish	✓	✓	✓
Finnish	✓	✓	–
Portuguese	✓	✓	✓
Hungarian	✓	✓	✓
Russian	✓	✓	✓
Japanese	✓	✓	✓
Chinese	✓	–	–

✓: Applicable –: Not applicable

## MEASUREMENT FUNCTIONS

### Basic Measurement Functions

- 2D-mode measurements
  - Distance
    - Distance
    - Trace Length
    - Mean-IMT
  - Area
  - Angle
    - Angle
    - Joint
  - Volume
  - Stenosis ratio
    - %Stenosis (Distance)
    - %Stenosis (Area)
- 4D-mode measurements (UHCO-M4D is required.)
  - Distance
    - Distance
    - Trace Length
  - Area
  - Angle
    - Angle
  - Volume
    - Volume
    - Auto Volume measurement (USME-AVOLM is required.)
  - Stenosis ratio
    - %Stenosis (Distance)
    - %Stenosis (Area)
  - Shear Wave measurement

- M-mode measurements
  - Slope
  - Distance
  - Time
  - Heart rate
- PW/CW Doppler measurements (UHFL-CW is required for CW mode.)
  - Velocity
  - Acceleration
  - Time
  - Heart rate
  - PI
  - RI
  - S/D
  - Flow volume
  - Doppler trace

### Application Measurement Functions

- Cardiac measurements
  - 2D-mode measurements
    - LV (left ventricular function) measurements
    - LA (left atrial volume) measurements
    - AV (aortic valve) measurements
    - MV (mitral valve) measurements
    - PV (pulmonary valve) measurements
    - LV MASS measurements
    - Auto EF measurements (USME-AEFM is required.)
    - MPI measurements (USME-FHMPI is required.)
  - M-mode measurements
    - LV measurements
    - AV measurements
    - MV measurements
  - Doppler measurements
    - Trans-Aortic valve flow measurement
    - Trans-Mitral valve flow measurement
    - Trans-Pulmonary vein flow measurement
    - Trans-Tricuspid valve flow measurement
    - Trans-Pulmonary valve flow measurement
    - Blood flow waveform auto measurements
    - Coronary measurements
    - PISA measurements
  - OB (obstetrics) measurements
    - The data for determining fetal growth based on the measured fetal size is displayed.
    - The list of measured data or a graph of the measured value development (fetal growth conditions) is displayed.
    - Week function (gestational age)
    - Measurement data saving is possible.
    - Auto NT measurement
    - Fetal heart MPI measurement (USME-FHMPI is required.)
    - Anatomy
    - User chart registration
  - Vascular measurements
    - CCA (Common Carotid Artery) measurement
    - ECA (External Carotid Artery) measurement
    - ICA (Internal Carotid Artery) measurement
    - Vert A (Vertebral Artery) measurement

- Subclav A (Subclavian Artery) measurement
- Auto-IMT measurement
- IMT-C10 measurement
- User-registered measurements registration function
  - Measurement items and calculation items based on the measured values
  - Layout setting on the Worksheet screen
  - Switch layout setting of the touch panel
  - Measurement package DICOM code registration

#### **Advanced Measurement Functions**

- 2D Wall Motion Tracking (USME-2DWMT is required.)  
Wall motion can be analyzed by semi-automatically extracting the left ventricular myocardium from the image data acquired by the system and displaying it for the evaluation of myocardial motion.
  - Wall motion tracking in 2D dynamic images
  - Wall motion information display
  - Polar map display
  - Local/whole myocardial wall motion parameter curve display
  - Parameter setting display of various parameters
  - Analytical data output to a file
  - RV analysis (USBE-2DWMFTA is required.)
  - RA analysis (USBE-2DWMFTA is required.)
  - Fetus mode (USME-2DWMFTF is required.)
  - Automatic analysis and synchronization of planes (USME-AGLS is required.)

#### **Measurement of Stored Image Data**

The following measurements can be performed for the DICOM data (DICOM, with raw data, and without raw data) stored in SSD.

- Basic measurement
- Application measurement

#### **Report Functions**

- Worksheet functions
  - The measurement and calculation items can be displayed for each application measurement.
  - Data editing is possible (except for some items).
  - Display of the following values can be set to ON or OFF. Mean value, latest value, maximum value, minimum value
  - Trend graphs can be displayed (OB measurement worksheet).
  - Multi Parametric Report, which allows organization of results acquired using multiple abdominal measurement applications in a worksheet, can be displayed. (USME-MPR is required.)
  - Analysis results of RADS used during an examination can be displayed on the Worksheet. (USBE-RADS is required.)
- Report function (On Board Report)
  - Reports can be created on the system.
  - The created reports can be printed.
  - The created reports can be output as PDF files.
  - The report template can be edited.
  - Comment entry is possible.

- Analysis results of RADS used during an examination can be displayed on the reports. (USBE-RADS is required.)

#### **Cine Memory (large-capacity image memory)**

- Memory Capacity: 960 MB
- Record/Playback Mode
  - Loop playback is possible.
  - Frame advance playback is possible.
  - Cine playback is possible in Doppler or M mode.
  - Live images can be recorded. (Clips, Auto Store)

#### **Recording Function**

- Printers (Option)
  - Black-and-white printer: USB connection
  - Color printer: USB connection
- Recording Device (Option)
  - Recorder unit: UHBE-REC1
- Electronic Filing
  - Hard disk drive
    - Internal SSD (SATA)
  - DVD/CD drive
  - USB flash drive
  - Network: DICOM connection
- NAS (USME-NSTRG is required.)
  - Only NAS that satisfies the following specifications can be used:
    - Protocol: SMB2.0 or later
    - LAN port: 1000BASE-T or higher
    - Capacity: 12 TB or less

#### **Security Function**

- Security Control
  - This system supports a function for recording the user's authorization and access log in order to protect personal information.
    - User authentication
    - Audit Log
    - De-identification (live image/stored image)
- Antivirus
  - Whitelist-type software is used for protection against computer viruses.
    - Protection against computer viruses using Windows® functions (standard configuration)  
Security is established using the whitelist-type software that is included in Windows® functions.
    - USME-SECM (security management kit) (option)  
Trellix Embedded Control (TEC) is used as the security management software. TEC is security software that employs whitelist protection. This software prevents execution of malware by allowing only executable files that have been registered in a whitelist to start.
- Disk Encryption Function
  - The following disk can be encrypted to prevent leakage of personal information.
    - SSDs in the system
    - USB flash drive

## Maintenance Function

- Remote Maintenance
  - This function makes it possible to remotely control the system for maintenance.
- Operation Status Report
  - The system operation status can be checked by a service engineer.
- Transducer Sensitivity Measurement Tool
  - Performance of transducers can be checked by service engineers using the transducer sensitivity measurement tool.

## Systematization

- Network
  - Ethernet: 10BASE-T/100BASE-TX/Gigabit Ethernet
  - Network client system
- Wireless Network (UIWL-A500A or UIWL-AI900A is required.)  
Wireless network connection is possible with this function.
  - Standard
    - IEEE 802.11 b/g/n 2.4 GHz (UIWL-A500A, UIWL-AI900A)
    - IEEE 802.11 a/n/ac 5 GHz (UIWL-A500A)
  - Security
    - WPA2-PSK [AES]
    - WPA2-Enterprise PEP-MsChap v2 [AES] (conformed)  
For WPA2-Enterprise, authentication is performed based on communication with the authenticated server. Depending on the authenticated server used in combination, authentication may fail. Perform a connection test in advance.
  - Frequency
    - 2.4 GHz to 2.5 GHz CCK/OFDM modulation (UIWL-A500A, UIWL-AI900A)
    - 5 GHz OFDM, 802.11 n MCS0-7, 802.11 ac MCS0-9 code system (UIWL-A500A)
- DICOM Function
  - DICOM data type
    - US Image (still image)
    - US Multi Frame (dynamic image)
    - SC Image (storage in a separate file)
    - Enhanced US Volume (Volume data image)
    - Structured Report (measurement result information)
  - Server connection
    - Storage (Server/Media)
    - MWM (Modality Worklist Management)
    - MPPS (Modality Performed Procedure Step)
  - Storage function
    - Storage Commitment
    - Query/retrieve
  - Standard conformity check function
    - Verification (export/import)
  - Print function
    - DICOM Print
- Image Format to Export
  - Still: BMP/JPEG
  - Movie: WMV9/H.264

## Signal I/O

- Transducer Connectors
  - Transducer connectors: 4
  - Pencil transducer connector: 1 (UHBE-PENCL is required.)
- Recording Device Input/Output Signals
  - Digital image output
  - Digital image input
  - Audio output: L, R
- External Video Output Signals
  - Composite video (UHME-VPANE is required.)
  - S-Video (UHME-VPANE is required.)
  - Digital image output
- External USB
  - 8 USB ports (4 on the rear of the main unit, 2 on the front of the main unit (support of USB 3.0), 1 on the side of the operating panel, and 1 on the side of the monitor)
- Ethernet
  - 10BASE-T/100BASE-TX/  
Gigabit Ethernet: 1 ch (for users)  
1 ch (for service engineers)  
(UHME-ITLAN is required.)
- Footswitch (UZFS-004A is required.)
  - 3-switch footswitch
- Battery Mode (Option)
  - The system can be operated in battery mode if the power supply from the outlet is interrupted due to power failure etc.

## Operating Conditions

### Power Supply Requirements

- Line voltage
  - Japan: 100 VAC ±10%
  - USA, Canada: 120 VAC ±10%
  - Europe: 220 to 240 VAC ±10%
  - Other 1: 110 to 120 VAC ±10%
  - Other 2: 220 to 240 VAC ±10%
- Line frequency 50/60 Hz ±1 Hz
- Power capacity
  - Japan: 900 VA
  - USA, Canada: 900 VA
  - Europe: 900 VA
  - Other 1: 900 VA
  - Other 2: 900 VA

Note: The system includes the power cable for Type G or Type B plug. Depending on the type of medical outlet in the hospital, a conversion plug that conforms to the regulations of each country shall be provided.  
Cord sets including power cable and plug shall be provided with specifications that ensure the impedance of the protecting grounding conductor is 100 mΩ or less.

### Environmental Conditions

- Operating conditions
  - Ambient temperature: 10°C to 35°C (when 4D transducer is used: 20°C to 35°C)
  - Relative humidity: 35% to 80% (no condensation)
  - Atmospheric pressure: 700 hPa to 1060 hPa

- Storage and transportation conditions
  - Ambient temperature: -10°C to 50°C
  - Relative humidity: 30% to 90% (no condensation)
  - Atmospheric pressure: 700 hPa to 1060 hPa
- Other regions requiring compliance with IEC 60601-1 Ed. 3.2
  - General: IEC 60601-1: 2005 + A1: 2012 + A2: 2020
  - Collateral: IEC 60601-1-2: 2014 + A1: 2020
  - Particular: IEC 60601-2-37: 2007 + A1: 2015

Note: The above standards are applicable to the ultrasound system at the time of purchase.

These standards continue to remain applicable even if the system configuration is changed as a result of using options in combination.

The standards of the ultrasound system are also applicable to transducers.

### Safety Classification

- According to the type of protection against electric shock
  - CLASS I or Internally Powered Equipment
- According to the degree of protection against electric shock
  - EQUIPMENT WITH TYPE-BF APPLIED PARTS  
(Transducer, ECG electrodes, PCG sensors, Pulse sensors)
- According to the degree of protection against harmful ingress of water
  - IPX0 (enclosed EQUIPMENT without protection against ingress of water)
  - However, the footswitch is IPX8 and the transducer is IPX7 (excluding the connector part).
- According to the degree of safety of application in the presence of a FLAMMABLE ANESTHETIC MIXTURE WITH AIR or WITH OXYGEN OR NITROUS OXIDE:
  - EQUIPMENT not suitable for use in the presence of a FLAMMABLE ANESTHETIC MIXTURE WITH AIR or WITH OXYGEN OR NITROUS OXIDE
- According to the mode of operation
  - CONTINUOUS OPERATION
- Sterilization method
  - System main unit
    - Not suitable for sterilization.
  - Transducers
    - Sterilization methods are specified in the relevant operation manuals.

### CONFORMANCE STANDARDS

- Canada: Ed. 3.1
  - General: CAN/CSA-C22.2 No. 60601-1: 14
  - Collateral: IEC 60601-1-2: 2014  
CAN/CSA-C22.2 No. 60601-1-6A: 11
  - Particular: IEC 60601-2-37: 2007 + A1: 2015
- EU and other regions requiring compliance with European Regulation (EU) 2017/745
  - General: EN 60601-1: 2006 + A1: 2013 + A2: 2021
  - Collateral: EN 60601-1-2: 2015 + A1: 2021
  - Particular: EN 60601-2-37: 2008 + A1: 2015
- USA: Ed. 3.2
  - General: AAMI ES 60601-1: 2005 + C1: 2009 + A2: 2010 + A1: 2012 + A2: 2021
  - Collateral: IEC 60601-1-2: 2014 + A1: 2020  
IEC 60601-1-6: 2010 + A1: 2013 + A2: 2020
  - Particular: IEC 60601-2-37: 2007 + A1: 2015
- Other regions requiring compliance with IEC 60601-1 Ed. 3.1
  - General: IEC 60601-1: 2005 + A1: 2012
  - Collateral: IEC 60601-1-2: 2007  
IEC 60601-1-2: 2014
  - Particular: IEC 60601-2-37: 2007 + A1: 2015

**DIMENSIONS, MASS, AND POWER CONSUMPTION**

Unit	Model name	External dimensions mm (in)						Mass kg (lb) (Approx.)		Power consumption (approx.)
		Width		Height		Depth				
Main unit	CUS-ABE00	550	(21.7)	1289 to 1870	(50.7) to (73.6)	857 to 923	(33.7) to (36.3)	96	(212)	262 W
Black and White digital printer	UP-D711MD	140	(5.5)	70	(2.8)	125	(4.9)	1.0	(2.2)	72 V (printing)
	UP-D898MD	154	(6.1)	88	(3.5)	240	(9.4)	2.6	(5.7)	190 VA (printing)
	UP-D898DC	154	(6.1)	88	(3.5)	165	(6.5)	1.8	(4.0)	98 VA (printing)
Color digital printer	UP-D25MD	212	(8.3)	98	(3.9)	398	(15.7)	5.5	(12.1)	240 VA (printing)

**MASS**

Model name	Name of component	Mass [kg] (lb)	Model name	Name of component	Mass [kg] (lb)	
UHFL-CW	CW kit	0.4 (0.9)	USME-LUMIN	Luminance kit	0.1 (0.2)	
UHBE-PENCL	Pencil unit	0.8 (1.8)	USBE-SGLAS	Shadow Glass kit	0.1 (0.2)	
UHBE-REFSG	Reference Signal unit	1.1 (2.4)	USBE-3DPRITF	3D Printer Format Export kit	0.1 (0.2)	
UJUR-AI900A	Reference Signal cable	0.3 (0.7)	UHCO-M4D	Mecha4D unit	0.6 (1.3)	
UJUR-AI902A	Reference Signal Seneor unit	0.4 (0.9)	USME-ATI	Attenuation Imaging kit	0.1 (0.2)	
USME-STRES	Stress Echo kit	0.1 (0.2)	USBE-DLUMIN	Doppler Luminance kit	0.1 (0.2)	
USME-AEFM	Auto EF Measurement	0.1 (0.2)	USME-GIMG	General Imaging kit	0.1 (0.2)	
USME-2DWMT	2D Wall Motion Tracking kit	0.1 (0.2)	USME-LVRP	Liver Package Basic kit	0.1 (0.2)	
USME-2DWMATA	2D Wall Motion Tracking Advanced kit	0.1 (0.2)	USME-MPURE	MicroPure kit	0.1 (0.2)	
USME-2DWMTF	2D Wall Motion Tracking Fetal kit	0.1 (0.2)	USME-PANVI	Panoramic View kit	0.1 (0.2)	
USME-AGLS	AutoGLS kit	0.1 (0.2)	USME-SMI	Superb Micro Vascular Imaging kit	0.1 (0.2)	
USME-CENH	Contrast Enhance kit	0.1 (0.2)	UHBE-PERMPB	Mounting kit for Peripheral unit (AC/DC black-and-white digital printer)	2.1 (4.6)	
USBE-MASS	Measurement Assistant kit	0.1 (0.2)	UHBE-PERMPB	Mounting kit for Peripheral unit (color digital printer)	2.5 (5.5)	
USME-WFNAV	Workflow Navigator kit	0.1 (0.2)	UHBE-REC1	Recorder unit	1.7 (3.7)	
UHME-TEEHG1	M-TEE Hanger kit	3.0 (6.6)	UIAG-001A	ApliGate kit	0.1 (0.2)	
USME-FHMPI	Fetal Heart MPI measurement kit	0.1 (0.2)	USME-AGATE1	ApliGate Soft kit	0.1 (0.2)	
USME-MEAZS	Measurement Z Score kit	0.1 (0.2)	USME-APCAM	ApliCam kit	0.1 (0.2)	
USME-TRICE	Tricify Access kit	0.1 (0.2)	USME-MPR	Multi Parametric Report kit	0.1 (0.2)	
USBE-SFH	Smart Fetal Heart kit	0.1 (0.2)	USME-NSTRG	Network Storage kit	0.1 (0.2)	
USBE-SAIJOB	Smart Area Indication OB kit	0.1 (0.2)	USME-OHELP	Online Help kit	0.1 (0.2)	
USME-CHI	CHI kit	0.1 (0.2)	USME-PRASS	Protocol Assistant	0.1 (0.2)	
USBE-CHIQ	CHI-Q kit	0.1 (0.2)	USME-REFIM	Reference Image kit	0.1 (0.2)	
USBE-FITCU	Fitting Curve kit	0.1 (0.2)	USME-SECM	Security Management kit	0.1 (0.2)	
USME-SELFL	Elastography-FLR kit	0.1 (0.2)	USME-IOTA	IOTA kit	0.1 (0.2)	
USME-SEL	Elastography kit	0.1 (0.2)	USME-UHF	Ultra High Freq kit	0.1 (0.2)	
USME-SWE	Shear Wave kit	0.1 (0.2)	USBE-RADS	RADS kit	0.1 (0.2)	
USBE-QVSWE	Quad View for SWE kit	0.1 (0.2)	UEBT-X200G	Battery Pack	3.7 (8.2)	
UHBE-MAGEN	Magnetic Generator kit	14.0 (30.9)	UEBT-X201G		1.6 (3.5)	
USBE-SMFUSN	Smart Fusion kit	0.1 (0.2)	UHBE-BTRYM	Mounting kit for battery	2.0 (4.4)	
USBE-SMNAVI	Smart Navigation kit	0.1 (0.2)	UHBE-BTRYM2	Mounting kit for 2nd battery	4.7 (10.4)	
USBE-AREGI	Auto Registration kit	0.1 (0.2)	UHCO-PT003A	Palm Controller kit	0.2 (0.4)	
USBE-PFUSN	Prostate Auto-Fusion kit	0.1 (0.2)	UHBE-BLTCVR	Bult-in cover	3.6 (7.9)	
USBE-BSGID	Breast Scan Guide kit	0.1 (0.2)	UHME-ECHOLD	EV/ER Transducer Holder kit	1.0 (2.2)	
USBE-SMBM	Smart Body Mark kit	0.1 (0.2)	UHME-ITLAN	Isolation Trans for LAN kit	0.5 (1.1)	
UHBE-BRSTP	Breast Package kit	14.0 (30.9)	UHME-REFCH	ECG Cable Hanger kit	0.1 (0.2)	
USBE-BRSTP	Breast Package Soft kit	0.1 (0.2)	UHBE-TCHAN	Transducer Cable hanger kit	0.9 (2.0)	
UIFR-A501A	Sensor kit for Fusion unit	0.1 (0.2)	UHME-VPANE	VIDEO kit	1.2 (2.6)	
UZWT-A500A	Fusion Pole Cart	26.0 (57.3)	UHME-TADPT	Transducer Adaptor	1.7 (3.7)	
UAFS-001A	Mounting kit for fusion sensor	0.1 (0.2)	UIOM-001A	OLED Monitor unit	4.1 (9.0)	
UAFS-002A		0.1 (0.2)	UIWL-AI900A	Wireless LAN kit	0.5 (1.1)	
UAFS-004A		0.1 (0.2)	UIWL-A500A		0.5 (1.1)	
UAFS-005A		0.1 (0.2)	UZFS-004A	Foot Switch	0.6 (1.3)	
UAFS-006A		0.1 (0.2)	UZGW-008A	Gel Warmer	1.0 (2.2)	
UAFS-007A		0.1 (0.2)	UHFL-FRENCH	Local Language Key-TOP Kit (French)	0.5 (1.1)	
UAFS-008A		0.1 (0.2)				
UAFS-010A		0.1 (0.2)				
UAFS-012A		0.1 (0.2)				
USME-AVOLM		Auto Volume Measurement kit	0.1 (0.2)			

Model name	Name of component	Mass [kg] (lb)
UHFL-GERMAN	Local Language Key-TOP Kit (German)	0.5 (1.1)
UHFL-ITALIA	Local Language Key-TOP Kit (Italian)	0.5 (1.1)
UHFL-SPAIN	Local Language Key-TOP Kit (Spanish)	0.5 (1.1)
UHFL-DANISH	Local Language Key-TOP Kit (Denmark)	0.5 (1.1)
UHFL-NORWAY	Local Language Key-TOP Kit (Norway)	0.5 (1.1)
UHFL-SCANDI	Local Language Key-TOP Kit (Scandinavian)	0.5 (1.1)
UHFL-RUSSIA	Local Language Key-TOP Kit (Russian)	0.5 (1.1)
UHFL-PORTUG	Local Language Key-Top kit (Portuguese)	0.5 (1.1)
UHFL-HNGRY	Local Language Key-Top kit (Hungarian)	0.5 (1.1)
PSU-28BT	Phased array transducer	0.38 (0.84)
PSU-30BT	Phased array transducer	0.4 (0.9)
PSU-50BT	Phased array transducer	0.4 (0.9)
PSU-70BT	Phased array transducer	0.4 (0.9)
PVL-715RS	Endocavity transducer	0.68 (1.5)
PVU-350BTP	Convex array biopsy transducer	0.5 (1.1)
PVU-375BT	Convex array transducer	0.55 (1.21)
PVU-382BT	Convex array transducer	0.4 (0.9)
PVU-475BT	Convex array transducer	0.45 (0.99)
PVU-475BTW	Convex array transducer	0.46 (1.0)
PVU-574BT	Convex array transducer	0.44 (0.97)
PVU-674BT	Convex array transducer	0.55 (1.21)
PVU-674MVS	Convex array transducer	1.05 (2.31)
PVU-681MVL	Convex array transducer	0.78 (1.72)
PVU-712BTE	Convex array transducer	0.63 (1.17)
PVU-745BTF	Convex array transducer	0.45 (0.99)
PVU-745BTH	Convex array transducer	0.45 (0.99)
PVU-745BTV	Convex array transducer	0.45 (0.99)
PVU-781VTE	Endocavity transducer	0.63 (1.39)
PLU-308BTP	Linear array biopsy transducer	0.5 (1.1)
PLU-704BT	Linear array transducer	0.5 (1.1)
PLU-705BTF	Linear array transducer	0.44 (0.97)
PLU-705BTH	Linear array transducer	0.44 (0.97)
PLU-805BT	Linear array transducer	0.49 (1.08)
PLU-1005BT	Linear array transducer	0.53 (1.17)
PLU-1202BT	Linear array transducer	0.45 (0.99)
PLU-1204BT	Linear array transducer	0.49 (1.08)
PLU-1204BX	Linear array transducer	0.6 (1.3)
PLU-2002BT	Linear array transducer	0.45 (0.99)
PET-512MD	Multi-plane transesophageal transducer	1.5 (3.3)
PET-835LA	Convex array transducer	1.2 (2.6)
PC-20M	CW Doppler pencil transducer	0.085 (0.19)
PC-50M	CW Doppler pencil transducer	0.08 (0.18)



Manufacturer:

**CANON INC.**

30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan  
Telephone: (81)-3-3758-2111

©CANON INC. 2024-2026. All rights reserved.

Design and specifications are subject to change without notice.

Model number: CUS-ABE00

MPDUS0248EAE V2.0 2026-04 Published in Japan

Windows is a registered trademark of Microsoft Corporation in the United States and / or other countries.

DICOM® is the registered trademark of the National Electrical Manufacturers Association for its Standards publications relating to digital communications of medical information.

Tricefy is a trademark of Trice Imaging, Inc.

Trellix® is a trademark or registered trademark of Musarubra US LLC.

Wi-Fi® is a trademark of Wi-Fi Alliance.

This document may include trademarks or registered trademarks of their respective owners.

The contents of this document are limited to standard specifications.

Please consult with your regulatory department for local approved product specifications and usage.