

Canon

Product Data
No. MPDUS0232EAC

Aplio me

INTRODUCTION

This system achieves high sensitivity and high quality by using state-of-the-art digital technology in the T/R section, which is the core of a diagnostic ultrasound system. This system features advanced algorithms that run on circuits that incorporate the latest circuit technology, semiconductor technology, and surface-mount technology. 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.

Enhanced diagnostic capabilities

The spatial resolution, contrast resolution, and temporal resolution have been improved through new technologies, resulting in enhanced diagnostic capabilities.

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 high throughput.



Ergonomics

The system employs a non-interlace high-definition monitor with excellent viewing ability. This feature decreases operator fatigue in long examinations. 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 CUS-AME00

| Unit | Model name | Remarks |
|-----------|------------------------|---|
| Main unit | CUS-AME00, Aplio me | High-definition 21.5-inch or 23-inch wide LCD monitor with LED backlight, ADF (Advanced Dynamic Flow), ApliPure, ApliPure Plus, Precision Imaging, Precision Plus, CDI (Color Doppler Imaging), Power Doppler (Power Angio), TDI (Tissue Doppler Imaging), TwinView, Smart 3D, Flex-M, Vascularity Index, Quick Scan, D-THI, Auto IMT, BEAM, Full Focus, TSO (Tissue Specific Optimization), DICOM® |

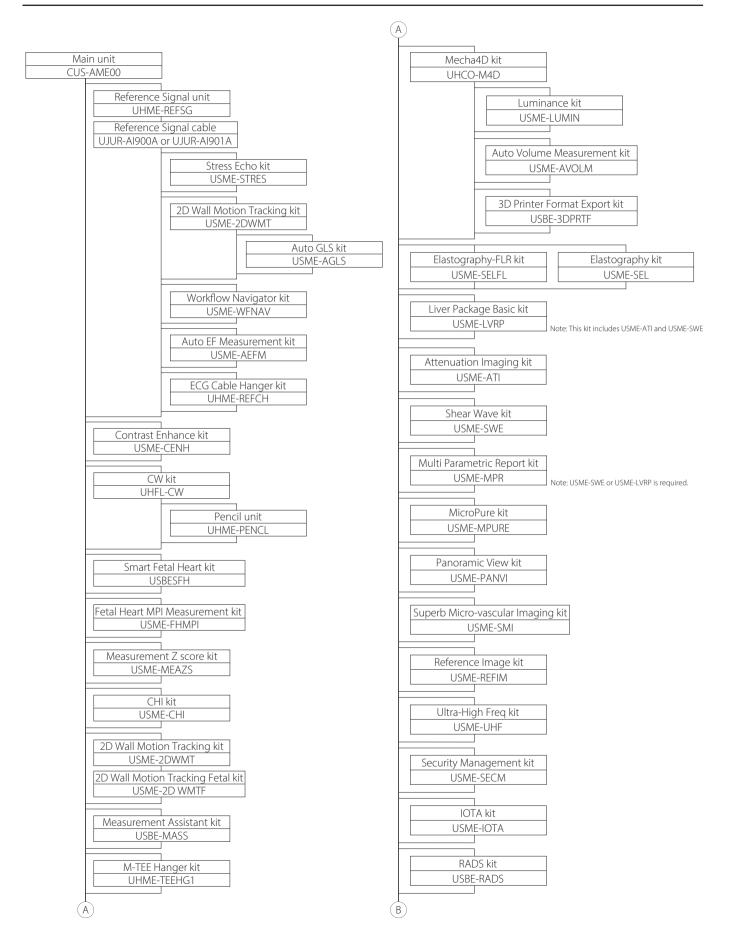
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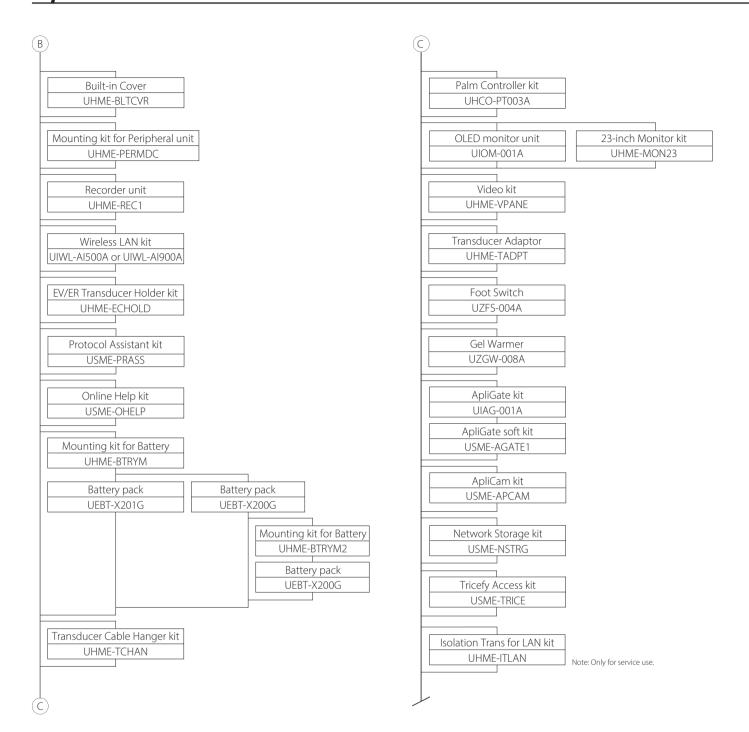
| | | | Main unit | | | | |
|--------------------------------------|------------------------------------|--|-----------|----------------------|-----------------------|--|--|
| Unit | Model name | Remarks | Aplio me | Aplio me WH model | Applicable Version | | |
| Stress Echo kit | USME-STRES, USME-STRES/EL | Adds cardiac stress examination function to the system. (UHME-REFSG is required.) | Ор. | Ор. | V1.0 or later | | |
| Auto GLS kit | USME-AGLS, USME-AGLS/EL | Enables easy full LV(left ventricular function)assessment including bull's eye (Polarmap), EF (Ejection Fraction) and GLS (Quick Strain). (USME-2DWMT is required.) | Ор. | Ор. | V1.0 or later | | |
| Auto EF Measurement kit | USME-AEFM, USME-AEFM/EL | Software to enable Ejection Fraction to be measured automatically. | Ор. | Ор. | V1.0 or later | | |
| 2D Wall Motion Tracking kit | USME-2DWMT, USME-2DWMT/EL | Adds cardiac wall motion analysis function for LV and LA (left atrial volume) to the system. (For non-fetal use, UHME-REFSG is required.) | Ор. | Ор. | V1.0 or later | | |
| 2D Wall Motion Tracking Fetal kit | USME-2DWMTF, USME-2DWMTF/ EL | This kit enables cardiac wall motion analysis function for fetal heart (LV and basic RV) using data from a convex transducer. (USME-2DWMT is required.) | Ор. | Ор. | V2.0 or later | | |
| Measurement Assistant kit | USBE-MASS, USBE-MASS/EL | Automatic measurements which supports the reduction in the variability of standard measurements. | Ор. | Ор. | V2.0 or later | | |
| Workflow Navigator kit | USME-WFNAV, USME-WFNAV/EL | This kit activates automatically and indicates the next procedure based on the ASE (American Society of Echocardiography) guideline after completing the preceding step in the workflow examination in Cardiology. | Ор. | Ор. | V1.0 or later | | |
| CW kit | UHFL-CW | For cardiovascular examinations, add Continuous Doppler capability to sector. | Ор. | Ор. | V1.0 or later | | |
| Pencil unit | UHME-PENCL | This unit is used to add connectors for pencil transducers. (UHFL-CW is required.) | Ор. | Ор. | V2.0 or later | | |
| Reference Signal unit | UHME-REFSG | Hardware kit to display reference signals (ECG (Electrocardiogram) waveforms etc.). (UJUR-Al900A or UJUR-Al901A is required.) | Ор. | Ор. | V1.0 or later | | |
| | UJUR-AI900A | For cardiovascular examinations (for regions other than the USA): ECG, respiration, ECG gating, heart rate (UHME-REFSG is required.) | Ор. | Ор. | V1.0 or later | | |
| Reference Signal cable | UJUR-Al901A | For cardiovascular examinations (for the USA and Canada): ECG, respiration, ECG gating, heart rate. (UHME-REFSG is required.) | Ор. | Ор. | V1.0 or later | | |
| M-TEE Hanger kit | UHME-TEEHG1 | TEE transducer hanger for PET-512MD | Ор. | Ор. | 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. | Ор. | Ор. | V1.0 or later | | |
| Measurement Z score kit | USME-MEAZS, USME-MEAZS/EL | This kit enables Z-score analysis for the measurement results. | Ор. | Ор. | V1.0 or later | | |
| Tricefy Access kit | USME-TRICE, USME-TRICE/EL | This kit enables to access Tricefy [™] which is a cloud service for clinical images. | Ор. | Ор. | V1.0 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. | Ор. | Ор. | V2.0 or later | | |
| CHI kit | USME-CHI, USME-CHI/EL | Adds Contrast Imaging function to the system. | Ор. | Ор. | V1.0 or later | | |
| Elastography-FLR kit | USME-SELFL, USME-SELFL/EL | This kit enables Elastography with FLR measurement. | Ор. | Ор. | V1.0 or later | | |
| Elastography kit | USME-SEL, USME-SEL/EL | This kit enables Elastography without FLR measurement. | Ор. | Ор. | V1.0 or later | | |

| | | | | Main unit | |
|--------------------------------------|--------------------------------|---|----------|----------------------|-----------------------|
| Unit | Model name | Remarks | Aplio me | Aplio me WH model | Applicable Version |
| Shear Wave kit | USME-SWE, USME-SWE/EL | This kit allows tissue stiffness to be visualized by generating images that show shear wave propagation. | Ор. | Ор. | V1.0 or later |
| Mecha4D unit | UHCO-M4D | This unit is required for using the 4D transducer. | Ор. | Std. | V1.0 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.) | Ор. | Std. | V1.0 or later |
| 3D Printer Format Export kit | USBE-3DPRTF, USBE-3DPRTF/EL | This kit enables output of volume data for Smart 3D and Mechanical 4D to 3D printers. | Ор. | Ор. | V2.0 or later |
| 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.) | Ор. | Ор. | V1.0 or later |
| Attenuation Imaging kit | USME-ATI, USME-ATI/EL | This kit enables visualization of ultrasound frequency-dependent attenuation coefficient within tissue. | Ор. | Ор. | V1.0 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. | Ор. | Ор. | V1.0 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). | Ор. | Ор. | V1.0 or later |
| General Imaging kit | USME-GIMG, USME-GIMG/EL | This kit allows usage of General Imaging. | NA | Ор. | V1.0 or later |
| Superb Micro-vascular Imaging kit | USME-SMI, USME-SMI/EL | Visualize low-velocity blood flow at a high frequency rate. | Ор. | Std. | V1.0 or later |
| Liver Package Basic kit | USME-LVRP, USME-LVRP/EL | Following optional kits are included. Optional kits: USME-SWE, USME-ATI | Ор. | Ор. | V1.0 or later |
| Multi Parametric Report kit | USME-MPR, USME-MPR/EL | This kit enables a combined report for the abdominal measurement applications. (USME-SWE or USME-LVRP is required.) | Ор. | Ор. | V1.0 or later |
| MicroPure kit | USME-MPURE, USME-MPURE/EL | This kit enables MicroPure, which supports visualization of small structures. | Ор. | Ор. | V1.0 or later |
| ApliGate kit | UIAG-001A | Video capture unit, HDMI to USB converter (USME-AGATE1 is required.) | Ор. | Ор. | V1.0 or later |
| ApliGate soft kit | USME-AGATE1, USME-AGATE1/EL | ApliGate software (UIAG-001A is required.) | Ор. | Ор. | V1.0 or later |
| ApliCam kit | USME-APCAM, USME-APCAM/EL | Video clip captured by the camera which is connected to the main unit can be displayed on the screen as picture-in-picture. | Ор. | Ор. | V1.0 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.) | Ор. | Ор. | V1.0 or later |
| Online Help kit | USME-OHELP, USME-OHELP/EL | Kit for displaying the operation manual on the observation monitor. | Ор. | Ор. | V1.0 or later |
| Protocol Assistant kit | USME-PRASS, USME-PRASS/EL | A sequence of operations is registered, and each operation is executed by single switch operation. Not necessary when USME-STRES is installed. | Ор. | Ор. | V1.0 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. | Ор. | Ор. | V1.0 or later |
| Security Management kit | USME-SECM | This kit provides software for security management of the system. | Ор. | Ор. | V1.0 or later |
| IOTA kit | USME-IOTA, USME-IOTA/EL | This kit enables International Ovarian Tumor Analysis. Only available in EU member countries. | Ор. | Ор. | V1.0 or later |
| RADS kit | USBE-RADS, USBE-RADS/EL | This kit enables the Reporting and Data System. | Ор. | Ор. | V2.0 or later |
| Ultra-High freq kit | USME-UHF, USME-UHF/EL | This kit enables to use of over 22 MHz transducer. | Ор. | Ор. | V1.0 or later |
| Isolation Trans for LAN kit | UHME-ITLAN | Isolation trans for the LAN port for remote maintenance. Only for service use. | Ор. | Ор. | V1.0 or later |
| Palm Controller kit | UHCO-PT003A | Pointing device, dial on track ball allows easier Gain adjustment without reaching out for another buttons. | Ор. | Ор. | V1.0 or later |
| Built-in Cover | UHME-BLTCVR | Cover for Reference Signal unit and/or Printers, Recorder unit. | Ор. | Ор. | V1.0 or later |

| | | | Main unit | | | | |
|-------------------------------------|-------------|--|-----------|----------------------|-----------------------|--|--|
| Unit | Model name | Remarks | Aplio me | Aplio me WH model | Applicable Version | | |
| Recorder unit | UHME-REC1 | Video recording device with mounting parts and cables | Ор. | Ор. | V1.0 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. | Ор. | V1.0 or later | | |
| | UEBT-X201G | Small capacity (Approx. 20 minutes) battery pack. The battery must be used solely. | Ор. | Ор. | V1.0 or later | | |
| Mounting kit for Battery | UHME-BTRYM | This kit is necessary when installing the battery pack. | Ор. | Ор. | V1.0 or later | | |
| Mounting kit for 2nd Battery | UHME-BTRYM2 | This kit is necessary when installing the 2nd battery pack. Only for UEBT-X200G. Only available when 1st battery is UEBT-X200G. | Ор. | Ор. | V1.0 or later | | |
| EV/ER Transducer Holder kit | UHME-ECHOLD | EV or ER transducer can be put on the left side of the operation panel. | Ор. | Ор. | V1.0 or later | | |
| ECG Cable Hanger kit | UHME-REFCH | Hook used to hang the ECG cables on the front of the operating panel. | Ор. | Ор. | V1.0 or later | | |
| Transducer Cable Hanger kit | UHME-TCHAN | Expandable arm for hang transducer cables. | Ор. | Ор. | V1.0 or later | | |
| Video kit | UHME-VPANE | Add some video I/O ports (Composite video, Y/C video) on the rear panel. | Ор. | Ор. | V1.0 or later | | |
| Transducer Adaptor | UHME-TADPT | Transducer connector adaptor for PET-512MD and PET-835LA. | Ор. | Ор. | V2.0 or later. | | |
| OLED monitor unit | UIOM-001A | 21.6-inch wide OLED Monitor to replace LCD Monitor with LED back light. Not available with UHME-MON23. | Ор. | Ор. | V1.0 or later | | |
| 23-inch Monitor kit | UHME-MON23 | 23-inch LCD monitor with LED back light replace 21.5-inch monitor. Not available with UIOM-001A. | Ор. | N/A | V1.1 or later | | |
| | UIWL-AI900A | This kit enables connection to the DICOM network via wireless LAN. (For Singapore, Russia, Australia, and Turkey.) | Ор. | Ор. | V1.0 or later | | |
| Wireless LAN kit | UIWL-A500A | This kit used to establish connection to the DICOM network via wireless LAN. Compiles with the Radio Law of Japan and applicable laws and regulations of USA, Canada, EU member states, Iceland, Norway, Liechtenstein, and Switzerland. | Ор. | Ор. | V1.0 or later | | |
| Foot switch | UZFS-004A | Switch used for freezing, printing, and some other operations by foot. | Ор. | Ор. | V1.0 or later | | |
| Gel warmer | UZGW-008A | This unit warms the ultrasound gel to a suitable temperature. | Ор. | Ор. | V1.0 or later | | |
| Mounting kit for Peripheral unit | UHME-PERMDC | Mounting kit for DC powered B/W printer | Ор. | Ор. | V1.0 or later | | |
| | UHFL-FRENCH | | | | | | |
| | UHFL-GERMAN | | | | | | |
| | UHFL-ITALIA | - | | | | | |
| | UHFL-SPAIN | | | | V1.0 or | | |
| | UHFL-DANISH | - | | | later | | |
| Local Language Key-TOP | UHFL-NORWAY | This kit is intended to change the key tops of the full keyboard to support | | | | | |
| kit | UHFL-SCANDI | specific languages. | Ор. | Ор. | | | |
| | | - | | | | | |
| | UHFL-RUSSIA | - | | | V2.0 or | | |
| | UHFL-PORTUG | | | | later | | |
| | UHFL-HNGRY | | | | V2.0 or later | | |

BLOCK CHART SYSTEMS





TRANSDUCER OPTIONS/OPERATION MODES

| Model r | name | Number of elements | Label | Freq. (MHz) | Displayed range of frequency (MHz) | 2D | Precision Imaging | ApliPure | Full Focus | Ultra Wide View | Panoramic View | Micro Pure |
|--------------|--------|--------------------------|-------|----------------|--|----------|----------------------|----------|---------------|--------------------|-------------------|---------------|
| 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 | 1054 | 7.0 | 3.5~9.0 | ✓ | ✓ | - | ✓ | - | ✓ | _ |
| D) // 71 EDC | Convex | 128 | 11014 | 7.5 | 4.5~9.0 | ✓ | ✓ | ✓ | ✓ | _ | ✓ | _ |
| PVL-715RS | Linear | 128 | 11CL4 | 7.5 | 4.5~9.0 | ✓ | ✓ | ✓ | ✓ | _ | ✓ | _ |
| PVU-350BT | P | 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-574BT | | - | 10C1 | 5.0 | 2.0~9.7 | ✓ | √ | ✓ | ✓ | ✓ | ✓ | _ |
| PVU-674BT | | 192 | 10C3 | 6.0 | 3.5~9.7 | ✓ | ✓ | ✓ | ✓ | _ | ✓ | _ |
| PVU-674M\ | /S | 128 | 9CV2 | 6.0 | 2.5~7.5 | ✓ | ✓ | ✓ | ✓ | _ | ✓ | _ |
| PVU-681M\ | /L | 192 | 11CV3 | 6.0 | 3.6~11.0 | ✓ | ✓ | ✓ | ✓ | _ | ✓ | - |
| PVU-712BT | E | 128 | 11MC3 | 7.0 | 3.3~11.0 | √ | ✓ | ✓ | ✓ | - | ✓ | - |
| PVU-745BT | F | 128 | 11Cl4 | 7.0 | 3.0~10.0 | ✓ | ✓ | ✓ | ✓ | - | ✓ | _ |
| PVU-745BT | Н | 128 | 11Cl4 | 7.0 | 3.0~10.0 | ✓ | ✓ | ✓ | ✓ | - | ✓ | _ |
| PVU-745BT | V | 128 | 11Cl4 | 7.0 | 3.2~10.0 | √ | √ | ✓ | ✓ | _ | ✓ | _ |
| PVU-781VT | E | 150 | 11C3 | 7.0 | 3.6~11.0 | ✓ | √ | ✓ | ✓ | _ | ✓ | _ |
| PLU-308BTI | P | 128 | 6LP3 | 3.75 | 2.0~5.5 | ✓ | ✓ | ✓ | ✓ | _ | - | _ |
| PLU-704BT | | 128 | 11L4 | 7.0 | 3.0~8.5 | ✓ | √ | ✓ | ✓ | - | ✓ | - |
| PLU-705BTI | F | 192 | 11Ll4 | 7.0 | 3.8~8.4 | ✓ | √ | ✓ | ✓ | - | ✓ | - |
| PLU-705BTI | Н | 192 | 11Ll4 | 7.0 | 3.8~8.4 | ✓ | ✓ | ✓ | ✓ | - | ✓ | - |
| PLU-805BT | | 244 | 12L4 | 8.0 | 3.0~12.0 | ✓ | ✓ | ✓ | ✓ | - | ✓ | - |
| PLU-1005B | Τ | 192 | 14L5 | 10.0 | 3.8~14.5 | √ | √ | ✓ | ✓ | - | ✓ | ✓ |
| PLU-1202B | Т | 128 | 17LH7 | 12.0 | 4.5~17.0 | ✓ | ✓ | ✓ | ✓ | - | ✓ | _ |
| PLU-1204B | Χ | - | 18LX7 | 12.0 | 4.5~18.0 | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ |
| PLU-1204B | Т | 192 | 18L7 | 12.0 | 4.5~18.0 | ✓ | ✓ | ✓ | ✓ | _ | ✓ | ✓ |
| PLU-2002E | ВТ | 160 | 22LH8 | 20.0 | 8.8~22.0 | ✓ | ✓ | ✓ | ✓ | _ | ✓ | - |
| PET-512MI |) | 64 | 8SM2 | 5.0 | 3.0~8.5 | ✓ | ✓ | - | ✓ | _ | - | - |
| PET-835LA | | _ | 12Cl4 | 8.0 | 3.5~9.0 | ✓ | ✓ | √ | ✓ | _ | ✓ | - |
| PC-20M | | _ | P2 | 2.0 | - | - | _ | - | - | _ | - | - |
| PC-50M | | - | P5 | 5.0 | - | - | _ | - | - | _ | - | - |
| | | | | | | | | | | | | |

TRANSDUCER OPTIONS/OPERATION MODES

| Model n | name | BEAM | М | CDI | Power | TDI | Elasto- graphy | SMI/ ADF | SWE | ATI | PWD | CWD | 2D WMT |
|-------------|--------|------|----------|----------|----------|-----|-------------------|-------------|----------|-----|----------|-----|--------|
| PSU-28BT | | - | ✓ | ✓ | ✓ | ✓ | _ | ✓ | _ | _ | ✓ | ✓ | ✓ |
| PSU-30BT | | _ | ✓ | ✓ | ✓ | ✓ | - | ✓ | _ | _ | ✓ | ✓ | ✓ |
| PSU-50BT | | - | ✓ | ✓ | ✓ | ✓ | _ | ✓ | _ | - | ✓ | ✓ | ✓ |
| PSU-70BT | | _ | ✓ | ✓ | ✓ | ✓ | _ | ✓ | - | _ | ✓ | ✓ | ✓ |
| DV/I 71 CDC | Convex | _ | ✓ | ✓ | ✓ | _ | _ | ✓ | - | _ | ✓ | _ | - |
| PVL-715RS | Linear | _ | ✓ | ✓ | ✓ | _ | _ | ✓ | _ | _ | ✓ | _ | - |
| PVU-350BTF |) | _ | ✓ | ✓ | ✓ | - | _ | ✓ | - | - | ✓ | _ | - |
| PVU-375BT | | _ | ✓ | ✓ | ✓ | - | _ | ✓ | ✓ | ✓ | ✓ | _ | - |
| PVU-382BT | | _ | √ | ✓ | √ | _ | _ | ✓ | - | _ | √ | _ | - |
| PVU-475BT | | _ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | √ | ✓ | √ | - | - |
| PVU-574BT | | _ | ✓ | ✓ | ✓ | ✓ | _ | ✓ | ✓ | _ | √ | _ | - |
| PVU-674BT | | _ | ✓ | √ | ✓ | ✓ | _ | ✓ | _ | _ | √ | _ | _ |
| PVU-674MV | 'S | _ | ✓ | ✓ | ✓ | - | _ | ✓ | _ | _ | ✓ | _ | - |
| PVU-681MV | 'L | _ | ✓ | √ | ✓ | - | ✓ | ✓ | _ | _ | ✓ | _ | - |
| PVU-712BTE | | _ | ✓ | ✓ | ✓ | - | _ | ✓ | _ | _ | ✓ | _ | - |
| PVU-745BTF | : | _ | ✓ | ✓ | ✓ | _ | _ | ✓ | _ | _ | ✓ | _ | _ |
| PVU-745BTh | + | _ | ✓ | ✓ | ✓ | _ | _ | ✓ | _ | _ | ✓ | _ | _ |
| PVU-745BT\ | / | - | ✓ | ✓ | ✓ | _ | _ | ✓ | _ | - | ✓ | _ | _ |
| PVU-781VTE | | _ | ✓ | ✓ | ✓ | _ | _ | ✓ | _ | _ | ✓ | _ | _ |
| PLU-308BTP |) | _ | ✓ | ✓ | ✓ | _ | _ | ✓ | _ | _ | ✓ | _ | _ |
| PLU-704BT | | ✓ | ✓ | ✓ | ✓ | _ | _ | ✓ | _ | _ | ✓ | _ | - |
| PLU-705BTF | : | - | ✓ | ✓ | ✓ | - | - | ✓ | - | - | ✓ | - | - |
| PLU-705BTF | + | - | ✓ | ✓ | ✓ | - | - | ✓ | _ | - | ✓ | - | - |
| PLU-805BT | | ✓ | ✓ | ✓ | ✓ | _ | ✓ | ✓ | _ | - | ✓ | _ | - |
| PLU-1005BT | - | ✓ | ✓ | ✓ | ✓ | - | ✓ | ✓ | ✓ | _ | ✓ | _ | - |
| PLU-1202BT | - | - | ✓ | ✓ | ✓ | - | ✓ | ✓ | _ | - | ✓ | _ | - |
| PLU-1204BX | (| ✓ | ✓ | ✓ | ✓ | _ | ✓ | ✓ | - | - | ✓ | _ | - |
| PLU-1204BT | - | ✓ | ✓ | ✓ | ✓ | _ | ✓ | ✓ | _ | _ | ✓ | _ | _ |
| PLU-2002B | Τ | _ | ✓ | ✓ | ✓ | - | _ | ✓ | _ | _ | ✓ | _ | _ |
| PET-512MD | | _ | ✓ | ✓ | _ | ✓ | _ | _ | _ | _ | ✓ | ✓ | ✓ |
| PET-835LA | | _ | ✓ | ✓ | ✓ | - | ✓ | ✓ | _ | _ | ✓ | _ | - |
| PC-20M | | _ | _ | _ | _ | - | _ | _ | _ | _ | _ | ✓ | _ |
| PC-50M | | - | _ | - | - | _ | _ | _ | _ | _ | _ | ✓ | - |

TRANSDUCER OPTIONS/OPERATION MODES

| | | С | HI | , | 4D | CTIC | CTIC C I | 6 125 | | Applicable | |
|------------------|--------------|----------|----------|----------|----|------|------------|----------|-------------------------------------|---------------|--|
| Model name | 2D | SMI | ADF | MFI | 40 | STIC | STIC Color | Smart 3D | Remarks | Version | |
| PSU-28BT | ✓ | _ | _ | ✓ | - | - | - | - | Using Single Crystal technology. | V2.0 or later | |
| PSU-30BT | ✓ | - | _ | ✓ | _ | _ | _ | _ | _ | V1.0 or later | |
| PSU-50BT | _ | _ | - | _ | - | - | - | - | - | V1.0 or later | |
| PSU-70BT | ✓ | - | _ | ✓ | - | _ | - | _ | - | V2.0 or later | |
| PVL-715RS Convex | ✓ | _ | _ | ✓ | _ | _ | _ | - | - | V1.0 or later | |
| Linear | - | _ | _ | _ | _ | _ | _ | - | - | V1.0 or later | |
| PVU-350BTP | ✓ | ✓ | ✓ | ✓ | _ | _ | _ | ✓ | _ | V2.0 or later | |
| PVU-375BT | ✓ | ✓ | ✓ | ✓ | _ | _ | _ | ✓ | _ | V1.0 or later | |
| PVU-382BT | ✓ | ✓ | ✓ | ✓ | - | _ | _ | ✓ | _ | V1.1 or later | |
| PVU-475BT | ✓ | ✓ | ✓ | ✓ | _ | _ | _ | ✓ | Using Single Crystal technology. | V1.1 or later | |
| PVU-574BT | ✓ | ✓ | ✓ | ✓ | _ | _ | _ | ✓ | Using Single Crystal technology. | V2.0 or later | |
| PVU-674BT | ✓ | ✓ | - | ✓ | _ | _ | _ | ✓ | - | V2.0 or later | |
| PVU-674MVS | - | _ | - | _ | ✓ | ✓ | ✓ | - | UHCO-M4D is required. | V1.0 or later | |
| PVU-681MVL | ✓ | √ | _ | ✓ | ✓ | _ | _ | _ | UHCO-M4D is required. | V1.1 or later | |
| PVU-712BTE | _ | _ | _ | _ | _ | _ | _ | ✓ | - | V1.0 or later | |
| PVU-745BTF | ✓ | - | _ | ✓ | _ | _ | _ | ✓ | - | V2.0 or later | |
| PVU-745BTH | ✓ | _ | - | ✓ | - | _ | - | ✓ | - | V2.0 or later | |
| PVU-745BTV | _ | _ | - | _ | _ | _ | _ | ✓ | _ | V2.0 or later | |
| PVU-781VTE | \checkmark | ✓ | - | ✓ | _ | _ | _ | ✓ | _ | V1.0 or later | |
| PLU-308BTP | - | - | _ | - | - | _ | _ | ✓ | - | V2.0 or later | |
| PLU-704BT | ✓ | ✓ | _ | ✓ | _ | _ | _ | ✓ | - | V2.0 or later | |
| PLU-705BTF | ✓ | - | _ | ✓ | _ | _ | _ | ✓ | _ | V2.0 or later | |
| PLU-705BTH | ✓ | - | - | ✓ | _ | _ | _ | ✓ | _ | V2.0 or later | |
| PLU-805BT | ✓ | ✓ | - | ✓ | _ | _ | _ | ✓ | _ | V1.0 or later | |
| PLU-1005BT | ✓ | ✓ | ✓ | ✓ | _ | _ | _ | ✓ | _ | V1.0 or later | |
| PLU-1202BT | \checkmark | _ | _ | ✓ | _ | _ | _ | ✓ | _ | V2.0 or later | |
| PLU-1204BX | \checkmark | ✓ | - | ✓ | _ | _ | _ | ✓ | _ | V2.0 or later | |
| PLU-1204BT | \checkmark | ✓ | _ | ✓ | - | _ | _ | ✓ | _ | V1.1 or later | |
| PLU-2002BT | ✓ | √ | - | ✓ | - | - | - | ✓ | USME-UHF is required. | V1.0 or later | |
| PET-512MD | - | - | - | - | - | - | _ | _ | UHME-TADPT is required. | V2.0 or later | |
| PET-835LA | √ | √ | - | √ | - | _ | - | ✓ | UHME-TADPT is required. | V2.0 or later | |
| PC-20M | - | - | - | - | - | - | - | - | UHME-PENCL is required. | V2.0 or later | |
| PC-50M | - | - | _ | - | _ | - | _ | _ | UHME-PENCL is required. | V2.0 or later | |

SPECIFICATIONS

System

- Scan methods
 - Linear scan

(some transducers can perform oblique scanning.)

- Sector scan
- Convex scan
- Trapezoid scan
- Curved vector scan
- Monitor

High-definition 21.5-inch Wide LCD monitor with LED backlight

• Resolution: 1920 \times 1080 (Full HD)

Viewing angle: 178 degrees
 Contrast ratio: typ. 1200: 1
 Response time (ms): typ. 22
 Luminance (cd/m²): More than 2

Luminance (cd/m²): 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

 \cdot Luminance (cd/m²): typ. 200 (7500 K)

typ. 145 (13000 K)

· Conformance Standard:DICOM Part 14

– 23-inch Wide monitor with LED backlight

Resolution: 1920 x 1080 (FUII HD)
Viewing angle: 178 degrees
Contrast ratio: typ. 1200: 1
Response time (ms): typ. 16

Luminance (cd/m²): More than 200
 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-D898DC: DC (12 V to 24 V, SONY)

• Recorder unit

– UHME-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® 10Interface: USB2.0 type-A

Aspect ratio: 4:3

Resolution: 640:480 pixel or moreDriver: 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 cmMaximum depth: 50 cm

- Linear

Minimum depth: 1 cmMaximum depth: 28 cm

Sector

Minimum depth: 1 cmMaximum 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.
- TSO
 - 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.

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
- 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) (UHME-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 De-

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: Waveform Peak, Mean,

Peak + Mean

Trace area specified: Forward, Reverse, Full, Auto
Measurement item: Max, Min, Mean, Pl, Rl, 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
- С Мар
 - 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 Ouick 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 (MDF 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 selected.
- 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

(UHME-REFSG and UJUR-Al900A, or UHME-REFSG and UJUR-Al901A are required.)

- Type
 - 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
- · 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 of the content of the content

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
- · Magic Cut
- VolPure
- · Volume View
- · STIC/STIC Color
- · Luminance (USME-LUMIN is required.)
- · OmniView
- · Auto flexible cut line
- The following measurements can be performed.
 - · MPR

- Multi Auto Volume measurement (USME-AVOLM is required.)
- Stress Echo (UHME-REFSG and UJUR-Al900A or UHME-REFSG and UJUR-Al901A 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-SEL or USME-SELFL 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. (Not available in the USA.)
- 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.
- 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 or USME-LVRP 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 or USME-LVRP is
 - The ultrasound wave attenuation can be displayed in color parametric and measured.
- Smart 3D

required)

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.)
- · Shear Wave (USME-SWE 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 acquired using CUS-AME00
 - · Dynamic Image (raw data) acquired using CUS- AME00
- The following measurement can be performed.
 Basic measurement

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
- · Se
- · 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 write status
- · Network use status
- · NAS connection
- · PACS use status
- · Used space on SSD
- · Saving dynamic/still image
- · DICOM printer status/peripheral device status
- · USB flash drive status display
- Multi-function 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)
 - 10.1-inch LCD monitor: WXGA (1280 \times 800)

- 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 | ✓ | - | - |

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
 - 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 measurements
 - · LA 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
 - · Z score analysis (USME-MEAZS is required.)
 - Vascular measurement
 - · 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
 - Fetus mode (USME-2DWMTF 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 HDD.

- Basic measurement
- Application measurement

Report Function

- · 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.)

Note: Only available in EU member states.

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
- Video Recording Units (option)
 - Recorder unit: UHME-REC1
- · Electronic Filing
 - Hard disk drive (internal HDD, external HDD (option))
 - · Internal SSD (SATA)
 - DVD/CD drive
 - USB flash drive
 - Network: DICOM connection
- NAS (USFL-NSTRG is required.)
 - Only NAS that satisfies the following specifications can be used

Protocol: SMB2.0 or laterLAN port: 1000 BASE-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/stored images)
- 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 [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
- Image Format to export

Still: BMP/JPEGMovie: WMV9/H.264

Signal I/O

- Transducer Connectors
 - Transducer connectors: 4
 - Pencil transducer connector: 1 (UHME-PENCL is required.)
- · Recording Device Input/Output Signals
 - Digital image output
 - Digital image input
 - Audio output: L, R
- External Video Output
 - Composite video (UHME-VPANE is required.)
 - S-Video (UHME-VPANE is required.)
 - Digital image output
- External USB
 - 7 USB ports (4 on the rear of the main unit, 2 on the front of the main unit (support of USB 3.0), and one on the side of the operating panel)
- Ethernet
 - 10BASE-T/

100BASE-TX/

Gigabit Ethernet: 1 ch

- 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: 800 VA
 USA, Canada: 800 VA
 Europe: 800 VA
 Other 1: 800 VA
 Other 2: 800 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 $100 \text{ m}\Omega$ or less.

Environmental Conditions

· Operating conditions

– Ambient temperature: 10°C to 35°C (20°C to 35°C when a

4D transducer is used)

- Relative humidity: 35% to 80% (no condensation)

- Atmospheric pressure: 700 hPa to 1060 hPa

• Storage conditions

- Ambient temperature: -10°C to 50°C

- Relative humidity: 30% to 90% (no condensation)

- Atmospheric pressure: 700 hPa to 1060 hPa

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 (Phonocardiogram) sensor, Pulse sensor)
- 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 transducers are 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
 - $\cdot\,$ Not suitable for sterilization
 - Transducers
 - · Sterilization methods are specified in the relevant operation manuals.

Conformance Standards

• 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 · 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

• USA: Ed. 3.1

-General: AAMI ES60601-1: 2005 + C1: 2009 + A2: 2010

+ A1: 2012

-Collateral: IEC 60601-1-2: 2014

IEC 60601-1-6: 2010 + A1: 2013

-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

• Other regions requiring compliance with IEC 60601-1 Ed. 3.2

-General: IEC60601-1: 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 applicable to transducers

DIMENSIONS, MASS, AND POWER CONSUMPTION

| Unit | Model name | External dimensions mm (in) | | | | | | | Mass g (lb) | Power consumption | |
|---------------------|--|--------------------------------|----------|--------------------|------------------------|------------|--------|-----------|----------------|--------------------|--|
| | | Width | | Height | | Depth | | (approx.) | | (approx.) | |
| | CUS-AME00 | 520 | (20.5)*1 | 1300 | (51.2) | 730 | (28.7) | | | | |
| Main unit | CO3-AIVIEUU | 550 | (21.7)*2 | 1770 | to (69.7) | 730 (28.7) | | 79 | (174) | 232 W | |
| Main unit | CUS-AME00 (Elevated panel height model) | 550 | (21.7) | 1400 to 1870 | (55.1) to (73.6) | 730 | (28.7) | 79 | (174) | 13.7 VA | |
| DAM digital printer | Sony UP-D711MD | 140 | (5.5) | 70 | (2.8) | 125 | (4.0) | 1.0 | (2.2) | 72 VA (printing) | |
| B/W digital printer | Sony UP-D898DC | 154 | (6.1) | 88 | (3.5) | 165 | (6.5) | 1.5 | (5.5) | 98.4 VA (printing) | |

*1: For a 21.5-inch monitor model

*2: For a 23-inch monitor model

MASS

| Model name | Name of component | Mass [kg] (lb) | | | | | |
|-----------------|-----------------------------------|----------------|--|--|--|--|--|
| System main uni | t | | | | | | |
| CUS-AME00 | Aplio me | 79 (174) | | | | | |
| Options/Accesso | Options/Accessories for main unit | | | | | | |
| USME-STRES | Stress Echo kit | 0.1 (0.2) | | | | | |
| USME-AGLS | Auto GLS kit | 0.1 (0.2) | | | | | |
| USME-AEFM | Auto EF Measurement kit | 0.1 (0.2) | | | | | |
| USME-2DWMT | 2D Wall Motion Tracking kit | 0.1 (0.2) | | | | | |
| USME-2DWMTF | 2D Wall Motion Tracking Fetal kit | 0.1 (0.2) | | | | | |
| USBE-MASS | Measurement Assistant kit | 0.1 (0.2) | | | | | |
| USME-WFNAV | Workflow Navigator kit | 0.1 (0.2) | | | | | |
| UHFL-CW | CW kit | 0.4 (0.9) | | | | | |
| UHME-PENCL | Pencil unit | 0.8 (1.8) | | | | | |
| UHME-REFSG | Reference Signal unit | 1.3 (2.9) | | | | | |
| UJUR-AI900A | Reference Signal cable | 0.3 (0.7) | | | | | |
| UJUR-AI901A | Reference Signal cable | 0.1 (0.2) | | | | | |
| UHME-TEEHG1 | M-TEE Hanger kit | 3.0 (6.6) | | | | | |
| USME-FHMPI | Fetal Heart MPI Measurement kit | 0.1 (0.2) | | | | | |
| USME-MEAZS | Measurement Z score kit | 0.1 (0.2) | | | | | |
| USME-TRICE | Tricefy Access kit | 0.1 (0.2) | | | | | |
| USME-CHI | CHI kit | 0.1 (0.2) | | | | | |
| USBE-SFH | Smart Fetal Heart kit | 0.1 (0.2) | | | | | |
| USME-SELFL | Elastography-FLR kit | 0.1 (0.2) | | | | | |
| USME-SEL | Elastography kit | 0.1 (0.2) | | | | | |
| USME-SWE | Shear Wave kit | 0.1 (0.2) | | | | | |
| UHCO-M4D | Mecha4D unit | 0.6 (1.3) | | | | | |
| USME-LUMIN | Luminance kit | 0.1 (0.2) | | | | | |
| USBE-3DPRTF | 3D Printer Format Export kit | 0.1 (0.2) | | | | | |
| USME-AVOLM | Auto Volume Measurement kit | 0.1 (0.2) | | | | | |
| USME-ATI | Attenuation Imaging kit | 0.1 (0.2) | | | | | |
| USME-PANVI | Panoramic View kit | 0.1 (0.2) | | | | | |

| Model name | Name of component | Mass [kg] (lb) |
|-------------|-----------------------------------|----------------|
| USME-CENH | Contrast Enhance kit | 0.1 (0.2) |
| USME-GIMG | General Imaging kit | 0.1 (0.2) |
| USME-SMI | Superb Micro-vascular Imaging kit | 0.1 (0.2) |
| USME-LVRP | Liver Package Basic kit | 0.1 (0.2) |
| USME-MPR | Multi Parametric Report kit | 0.1 (0.2) |
| USME-MPURE | MicroPure kit | 0.1 (0.2) |
| UIAG-001A | ApliGate kit | 0.1 (0.2) |
| USME-AGATE1 | ApliGate soft kit | 0.1 (0.2) |
| USME-APCAM | ApliCam kit | 0.1 (0.2) |
| USME-NSTRG | Network Storage kit | 0.1 (0.2) |
| USME-OHELP | Online Help kit | 0.1 (0.2) |
| USME-PRASS | Protocol Assistant kit | 0.1 (0.2) |
| USME-REFIM | Reference Image kit | 0.1 (0.2) |
| USME-SECM | Security Management kit | 0.1 (0.2) |
| USME-IOTA | IOTA kit | 0.1 (0.2) |
| USBE-RADS | RADS kit | 0.1 (0.2) |
| USME-UHF | Ultra-High freq kit | 0.1 (0.2) |
| UHME-ITLAN | Isolation Trans for LAN kit | 0.5 (1.1) |
| UHCO-PT003A | Palm Controller kit | 0.2 (0.4) |
| UHME-BLTCVR | Built-in Cover | 1.8 (4.0) |
| UHME-REC1 | Recorder unit | 1.7 (3.7) |
| UEBT-X200G | Battery pack | 3.7 (8.2) |
| UEBT-X201G | Battery pack | 1.6 (3.5) |
| UHME-BTRYM | Mounting kit for Battery | 1.4 (3.1) |
| UHME-BTRYM2 | Mounting kit for 2nd Battery | 5.5 (12.1) |
| UHME-ECHOLD | EV/ER Transducer Holder kit | 1.0 (2.2) |
| UHME-REFCH | ECG Cable Hanger kit | 0.1 (0.2) |
| UHME-TCHAN | Transducer Cable Hanger kit | 0.9 (2.0) |
| UHME-VPANE | Video kit | 1.2 (2.6) |
| UHME-TADPT | Transducer Adaptor | 1.7 (3.7) |

| Model name | Name of component | Mass [kg] (lb) |
|-------------|----------------------------------|----------------|
| UIOM-001A | OLED monitor unit | 4.1 (9.0) |
| UHME-MON23 | 23-inch Monitor kit | 6.0 (13.0) |
| UIWL-AI900A | Wireless LAN kit | 0.5 (1.1) |
| UIWL-A500A | Wireless LAN kit | 0.5 (1.1) |
| UZFS-004A | Foot switch | 0.6 (1.3) |
| UZGW-008A | Gel warmer | 1.0 (2.2) |
| UHME-PERMDC | Mounting kit for Peripheral unit | 1.0 (2.2) |
| UHFL-FRENCH | Local Language Key-TOP kit | 0.5 (1.1) |
| UHFL-GERMAN | Local Language Key-TOP kit | 0.5 (1.1) |
| UHFL-ITALIA | Local Language Key-TOP kit | 0.5 (1.1) |
| UHFL-SPAIN | Local Language Key-TOP kit | 0.5 (1.1) |
| UHFL-DANISH | Local Language Key-TOP kit | 0.5 (1.1) |
| UHFL-NORWAY | Local Language Key-TOP kit | 0.5 (1.1) |
| UHFL-SCANDI | Local Language Key-TOP kit | 0.5 (1.1) |
| UHFL-RUSSIA | Local Language Key-TOP kit | 0.5 (1.1) |
| UHFL-PORTUG | Local Language Key-TOP kit | 0.5 (1.1) |
| UHFL-HNGRY | Local Language Key-TOP kit | 0.5 (1.1) |

| Model name | Name of component | Mass [kg] (lb) |
|-------------|---------------------------------------|----------------|
| Transducers | | |
| 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-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 transesophagel 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) |



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