TOSHIBA
Leading Innovation »»»

DIAGNOSTIC ULTRASOUND SYSTEM

Aplio 500

Product Data
No. MPDUS0022EAJ

Platinum Series

INTRODUCTION

Aplio™ 500 is the top model in Toshiba's updated flagship Aplio series. Aplio 500 provides advanced imaging technologies and clinical applications running on a state-of-the-art platform. It also features an advanced version of Toshiba's unique iStyle™ concept that provides even greater user-friendliness in a wide range of clinical examinations, including not only abdominal and small part examinations, but also obstetric, gynecological, and cardiovascular examinations.

High image quality made possible by a new image engine, High-Density Beamforming

- High-speed, extremely flexible beamforming provides images with superior spatial resolution at higher temporal resolution.
- Toshiba's unique Precision Imaging and Differential THI improve spatial resolution and tissue visualization.
- ApliPure™+ multiple compounding technology increases contrast resolution.
- Tissue Specific Optimization corrects for differences in the acoustic characteristics of tissues in the human body to improve lateral resolution.

Outstanding operability thanks to the iStyle+ advanced ergonomics concept

- Optimal parameters for the patient's body size and the objective of the examination can be selected as a set by a single operation.
- Up to four transducers can be connected at the same time.
- Easy identification of the selected transducer on the TCS
- The transducer connectors are illuminated by an LED lamp.
- The switches on the operating panel and touch screen can be customized.

Advanced real-time applications

- Elastography provides images showing the elasticity of tissues in real time.
- Smart Fusion displays volume data obtained by another modality in synchronization with the ultrasound image.
- 2D Wall Motion Tracking supports accurate cardiac wall motion analysis.

Wide range of 3D/4D applications made possible by the High-Density Rendering Engine

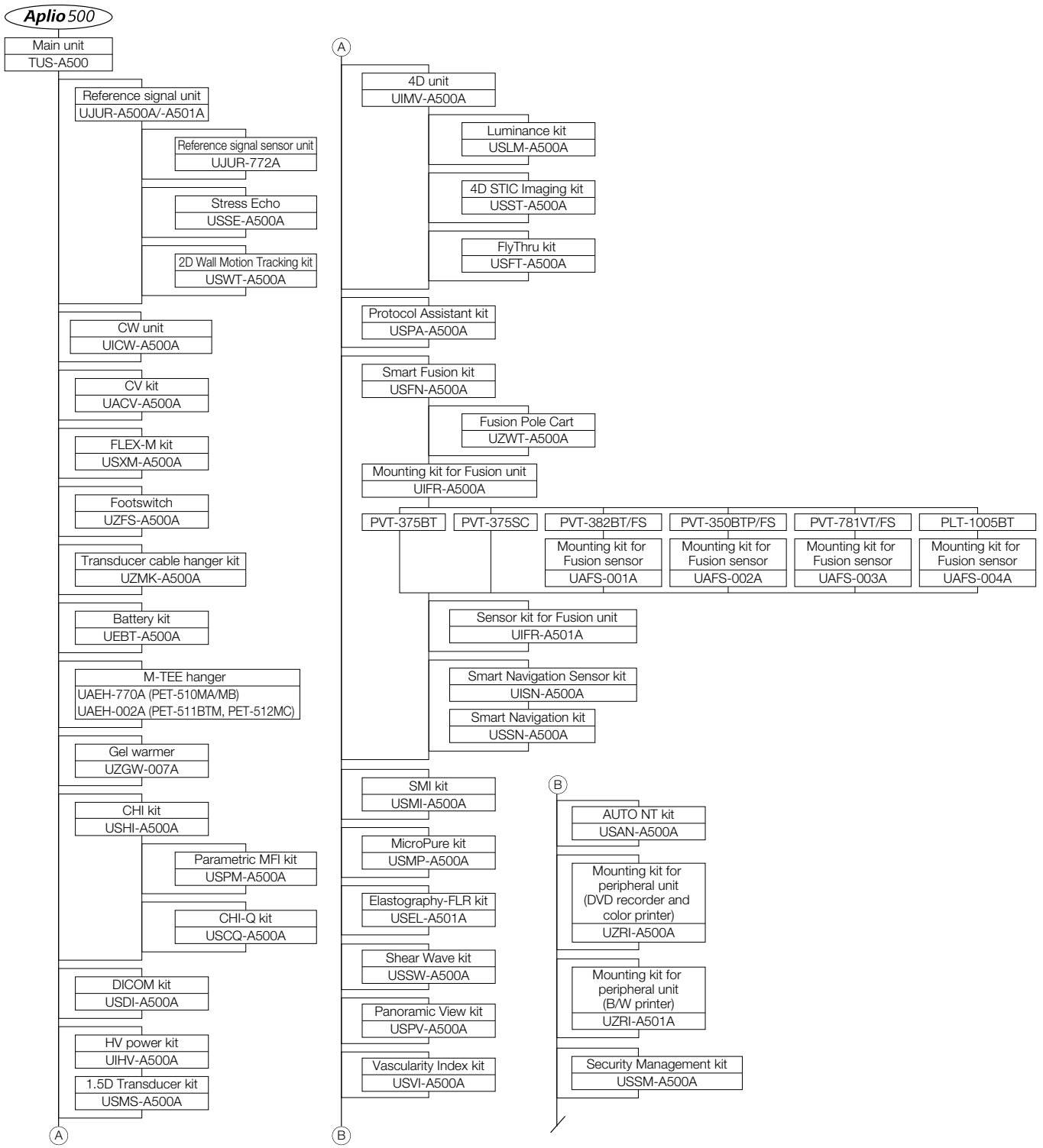
- High-resolution 3D/4D images can be obtained.
- Fly Thru displays the internal walls of hollow organs and structures.

SYSTEM MATRIX OF TUS-A500

Unit	Model name	Remarks
Main unit	TUS-A500 Aplio500	19-inch LCD monitor, DVD/CD drive, Precision Imaging, Tissue Enhancement, D-THI, ApliPure+, Speckle reduction, Tissue Specific Optimization, Trapezoid Scan, Quick Scan, TDI, QSP, HPRF, Advanced Dynamic Flow™ (ADF), and DICOM Media Storage are included.
<Options for main unit>		
CW unit	UICW-A500A	For cardiovascular examinations
Reference Signal unit	UJUR-A500A	For cardiovascular examinations (for regions other than the USA)
	UJUR-A501A	For cardiovascular examinations (for the USA)
Reference Signal sensor unit	UJUR-772A	PCG and Pulse transducer
Mounting kit for peripheral units	UZRI-A500A	Rack for mounting a DVD recorder and a color printer on two levels
	UZRI-A501A	Rack for mounting a B/W printer
Footswitch	UZFS-A500A	
Transducer cable hanger kit	UZMK-A500A	Long hanger on which the transducer cable is hooked.
M-TEE hanger	UAEH-770A	For the PET-510MA, PET-510MB, and PET-508MA.
Motor driven TEE hanger	UAEH-002A	For the PET-511BTM (for regions other than the USA), PET-512MC and PET-512MA.
Gel warmer	UZGW-007A	This unit warms the ultrasound gel to a suitable temperature.
Superb Micro vascular Imaging kit	USMI-A500A	Visualizes low-velocity blood flow at a high frame rate.
4D unit	UIMV-A500A	This unit is required for using the 4D transducer or the motor-driven TEE transducer (PET-511BTM/PET-512MC).
Luminance kit	USLM-A500A	Image processing technology that makes 3D/4D images of fetuses and anatomical structures appear more realistic. The UIMV-A500A and a 4D transducer are required (available separately).
4D STIC Imaging kit	USST-A500A	This kit makes it possible to reconstruct and display dynamic images of the fetal heart using a 4D transducer. The UIMV-A500A and a 4D transducer are required (available separately).
Fly Thru kit	USFT-A500A	The UIMV-A500A and a 4D transducer are required (available separately).
Battery kit	UEBT-A500A	For standby mode
CHI kit	USHI-A500A	Adds the Contrast Imaging function to the system.
Parametric MFI kit	USPM-A500A	This software color-codes the differences in time when the contrast medium reaches the target region. The USHI-A500A is required separately. (*1)
CHI-Q kit	USCQ-A500A	Adds the Time Curve Analysis (TCA) function to the system. The USHI-A500A is required (available separately).
DICOM kit	USDI-A500A	Verification, Storage, Print, Storage Commitment, MULTI FRAME (Network Transfer), MWM (Modality Worklist Management), Query/Retrieve, MPPS (Modality Performed Procedure Step), Structured Reporting
Protocol Assistant kit	USPA-A500A	A sequence of operations is registered, and each operation is executed by single switch operation.
Panoramic View kit	USPV-A500A	B/W images can be obtained with a wider field of view by moving the transducer in the lateral direction.
MicroPure™ kit	USMP-A500A	This kit enables MicroPure, which supports visualization of small structures.
Elastography-FLR kit	USEL-A501A	This kit enables Elastography (with FLR measurement) with linear and convex transducers. (*1)
Shear Wave kit	USSW-A500A	This kit allows tissue stiffness to be visualized by generating images that show shear wave propagation.
Vascularity Index kit	USVI-A500A	This software calculates the display area and ratio of the Power Doppler image. This kit is applicable to the linear transducers.
Smart Fusion kit	USFN-A500A	CT/MRI volume data is loaded, and a CT/MRI planar image and an ultrasound image at the same position are displayed together. The UIFR-A500A is required.
Mounting kit for Fusion unit	UIFR-A500A	This kit consists of the magnetic sensor required for Smart Fusion and the kit that mounts the magnetic sensor to the system main unit and to the transducer PVT-375BT/FS, PVT-375BT/FD, or PLT-375SC. The USFN-A500A is required separately. Mouting kit for Fusion sensor is required separately.
Sensor kit for Fusion Unit	UIFR-A501A	Magnetic sensor for the Smart Fusion function.
Mounting kit for Fusion sensor	UAFS-001A	For PVT-382BT/FS
	UAFS-002A	For PVT-350BTP/FS
	UAFS-003A	For PVT-781VT/FS
	UAFS-004A	For PLT-1005BT
Fusion Pole Cart	UZWT-A500A	This pole cart allows the magnetic field transmitter included in the system main unit to be positioned independently.
Smart Navigation Sensor kit	UISN-A500A	Sensor kit for the Smart Fusion function. The UIFR-A500A, USSN-A500A and USFN-A500A are required.
Smart Navigation kit	USSN-A500A	Smart Navigation Software. The UIFR-A500A, UISN-A500A and USFN-A500A are required.
CV kit	UACV-A500A	This kit consists of preset data suitable for cardiovascular examinations, a CV sticker, and a startup screen.
FLEX-M kit	USXM-A500A	This kit displays an M-mode image for an arbitrarily specified plane on a B-mode image.
Stress Echo kit	USSE-A500A	Adds the cardiac stress examination function to the system. The UJUR-A500A or UJUR-A501A is required (available separately).
2D Wall Motion Tracking kit	USWT-A500A	Adds the cardiac wall motion analysis function to the system. The UJUR-A500A or UJUR-A501A is required (available separately).
1.5D Transducer kit	USMS-A500A	Adds the Dynamic Micro Slice transducer (PLT-1204BX). The UIHV-A500A is required (available separately).
HV Power kit	UIHV-A500A	For the PLT-1204BX. The USMS-A500A is required (available separately).
Auto NT kit	USAN-A500A	This kit enables Auto-Nuchal Translucency measurement. (*2)
Security Management kit	USSM-A500A	This kit provides software for security management of the system.
Operation manuals	UOPM-A500A	Hard copies of the Operation Manual Applications Volume and Operation Manual Measurements Volume for regions where the standard configuration includes these manuals only as PDF files on CDs. (Applicable regions: Japan, Europe, USA, Canada, Australia, New Zealand, Turkey, Indonesia, Philippines, Pakistan, Egypt, and Costa Rica.)

(*1) Not available in the USA.
(*2) Not available in the USA and Canada.

BLOCK CHART SYSTEMS



TRANSDUCER OPTIONS

Transducer name	Scan type	Range	Freq. (MHz)	B-mode Freq. (MHz)			THI-mode Freq. (MHz)				D-THI Freq. (MHz)			2D mode			BEAM	M mode	CDI mode
														Fund.	Pulse Subtract ON	Pulse Subtract OFF			
PST-25BT	Sector	5S1	2.5	4.2	3.0	1.8	4.0	3.0	2.0	-	-	-	-	✓	✓	✓		✓	✓
PST-30BT	Sector	5S2	3.0	4.8	3.4	2.0	4.4	3.6	2.8	-	-	-	-	✓	✓	✓		✓	✓
PST-50BT	Sector	6S3	5.0	6.0	4.2	3.0	6.2	5.4	4.4	-	-	-	-	✓	✓	✓		✓	✓
PST-65AT	Sector	9S4	6.5	8.5	6.2	4.2	9.0	7.0	5.0	-	9.0	7.0	-	✓	✓	✓		✓	✓
PVT-350BTP	Convex	6CP1	3.5	6.0	4.0	1.9	6.0	5.0	4.0	3.0	-	5.0	-	✓	✓	✓*3		✓	✓
PVT-375BT	Convex	6C1	3.5	6.0	4.0	1.9	6.0	5.0	4.0	3.0	-	5.0	-	✓	✓	✓*3		✓	✓
PVT-375SC	Convex	6Cs1	3.5	6.0	4.0	1.9	6.0	5.0	4.0	3.0	-	5.0	3.0	✓	✓	✓*3		✓	✓
PVT-375MV	Convex 4D	6CV1	3.5	6.0	4.0	1.9	6.0	5.0	3.0	-	-	5.0	-	✓	✓	✓*3		✓	✓
PVT-382BT	Convex	6MC1	3.5	5.5	3.7	1.8	5.0	3.8	2.8	-	-	5.0	-	✓	✓	✓*3		✓	✓
PVT-382MV	Convex 4D	6MCV1	3.5	5.5	3.7	1.8	5.0	3.8	2.8	-	-	5.0	-	✓	✓	✓*3		✓	✓
PVT-661VT	Convex	9C3	6.0	8.8	7.3	4.7	8.0	7.2	6.0	-	-	7.0	6.0	✓	✓	✓*3		✓	✓
PVT-781VT	Convex	11C3	7.0	9.0	7.0	4.0	10.0	8.0	6.0	-	11.0	9.0	7.0	✓	✓	✓*3		✓	✓
PVT-770RT	Convex/Convex	10C5	7.0	10.0	7.3	5.0	9.2	8.4	7.0	-	10.0	8.0	-	✓	✓	✓*3		✓	✓
PVT-674BT	Convex	10C3	6.0	9.2	6.0	3.6	8.0	7.0	6.0	-	8.0	6.0	5.0	✓	✓	✓*3		✓	✓
PVT-675MV	Convex 4D	8CV2	6.0	7.2	5.0	2.8	7.0	5.5	4.0	-	-	6.0	5.0	✓	✓	✓*3		✓	✓
PVT-675MVL	Convex 4D	9CV2	6.0	7.2	5.0	2.8	8.0	6.0	4.0	-	-	6.0	5.0	✓	✓	✓*3		✓	✓
PVT-681MV	Convex 4D	9CV3	6.0	8.8	7.3	4.7	8.0	7.2	6.0	-	-	7.0	6.0	✓	✓	✓*3		✓	✓
PVT-712BT	Convex	11MC4	7.0	10.2	7.5	4.2	10.0	8.0	6.0	-	11.0	9.0	8.0	✓	✓	✓*3		✓	✓
PVT-745BTV	Convex	11CI4	7.0	11.0	8.0	4.0	9.0	7.6	5.8	-	-	10.0	-	✓	✓	✓*3		✓	✓
PVT-745BTF	Convex	11CI4	7.0	11.0	8.0	4.0	9.0	7.6	5.8	-	-	10.0	8.0	✓	✓	✓*3		✓	✓
PVT-745BTH	Convex	11CI4	7.0	11.0	8.0	4.0	9.0	7.6	5.8	-	-	10.0	8.0	✓	✓	✓*3		✓	✓
PLT-705BT	Linear	11L3	7.0	11.0	8.6	4.8	8.4	7.2	6.2	-	-	9.0	8.0	✓	✓	✓*3	✓	✓	✓
PLT-705BTF	Linear	11LI4	7.0	11.0	8.0	4.0	8.4	6.6	5.0	-	-	9.0	8.0	✓	✓	✓*3		✓	✓
PLT-705BTH	Linear	11LI4	7.0	11.0	8.0	4.0	8.4	6.6	5.0	-	-	9.0	8.0	✓	✓	✓*3		✓	✓
PLT-308P	Linear	6LP3	3.75	5.7	4.2	3.1	5.5	4.4	3.6	-	-	-	-	✓	✓			✓	✓
PLT-604AT	Linear	10L4	6.0	9.2	6.7	4.0	7.6	6.6	5.8	-	-	8.0	6.0	✓	✓	✓*3	✓	✓	✓
PLT-704AT	Linear	11L5	7.5	11.0	8.6	5.0	8.4	7.2	6.2	-	-	9.0	8.0	✓	✓	✓*3	✓	✓	✓
PLT-704SBT	Linear	11L4	7.5	11.0	8.6	4.8	8.4	7.2	6.2	-	-	9.0	8.0	✓	✓	✓*3	✓	✓	✓
PLT-805AT	Linear	12L5	8.0	12.0	10.0	6.2	9.0	7.6	6.6	-	-	9.0	8.0	✓	✓	✓*3	✓	✓	✓
PLT-1005BT	Linear	14L5	10.0	12.0	10.0	7.0	11.0	9.0	7.0	-	14.0	10.0	-	✓	✓	✓*3	✓	✓	✓
PLT-1202S	Linear	14L7	12.0	14.0	12.0	7.0	14.0	12.0	8.0	-	18.0	14.0	13.0	✓	✓			✓	✓
PLT-1204BT	Linear	18L7	12.0	14.0	12.0	7.2	14.0	12.0	8.0	-	18.0	14.0	13.0	✓	✓	✓*3	✓	✓	✓
PLT-1204BX	Linear	18LX7	12.0	14.0	12.0	7.2	14.0	12.0	8.0	-	18.0	14.0	13.0	✓	✓	✓*3	✓	✓	✓
PLT-1204MV	Linear	14LV7	12.0	14.0	12.0	7.2	14.0	12.0	8.0	-	-	14.0	13.0	✓	✓	✓*3		✓	✓
PET-508MA	Sector	7S3	5.0	6.5	5.0	3.0	6.6	5.6	4.4	-	-	-	-	✓	✓	✓		✓	✓
PET-510MA	Sector, TEE	7S3	5.0	6.5	5.0	3.0	6.6	5.6	4.4	-	-	-	-	✓	✓	✓		✓	✓
PET-510MB	Sector, TEE	7S3	5.0	6.5	5.0	3.0	6.6	5.6	4.4	-	-	-	-	✓	✓	✓		✓	✓
PET-511BTM	Sector, TEE	8SM2	5.0	7.5	5.0	2.5	7.0	5.6	3.5	-	-	-	-	✓	✓	✓		✓	✓
PET-512MC	Sector, TEE	8SM2	5.0	7.5	5.0	2.5	7.0	5.6	3.5	-	-	-	-	✓	✓	✓		✓	✓
PET-512MA	Sector, TEE	8S2	5.0	7.5	5.0	2.5	7.0	5.6	3.5	-	-	-	-	✓	✓	✓		✓	✓
PET-805LA	Linear, LAPA	12LI4	8.0	11.2	8.0	4.0	8.4	6.6	5.0	-	-	9.0	8.0	✓	✓	✓*3		✓	✓
PC-20M	Pencil	P2	2.0	-	-	-	-	-	-	-	-	-	-						
PC-50M	Pencil	P5	5.0	-	-	-	-	-	-	-	-	-	-						

*1 Optional software is required.
*2 Depends on the preset.
*3 Differential THI
*4 Not available in the USA.
*5 UIMV-A500A is required.
*6 Not available in the USA and Canada.
*7 TE (Tissue Enhancement) mode

Transducer name	POWER ANGIO mode	ADF mode	SMI mode*1	TDI mode	Strain Elasto-graphy mode*1	Shear wave*1	PW mode	CW mode*1	CHI mode*1				Apli-Pure	Micro-Pure*1	Precision Imaging/ TE	Remarks
									2D	ADF	MFI	VRI				
PST-25BT	✓*2	✓*2		✓			✓	✓	✓		✓				✓*7	
PST-30BT	✓*2	✓*2		✓			✓	✓	✓		✓				✓*7	
PST-50BT				✓			✓	✓							✓*7	
PST-65AT	✓*2	✓*2		✓			✓	✓	✓*4		✓*4				✓*7	
PVT-350BTP	✓	✓					✓		✓*4	✓*4	✓*4	✓*4	✓		✓	*6
PVT-375BT	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	
PVT-375SC	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	
PVT-375MV	✓	✓					✓		✓*4	✓*4		✓*4	✓		✓	*5
PVT-382BT	✓	✓					✓		✓*4	✓*4	✓*4	✓*4	✓		✓	
PVT-382MV	✓	✓					✓		✓*4	✓*4	✓*4	✓*4	✓		✓	*5
PVT-661VT	✓	✓		✓	✓		✓		✓*4	✓*4	✓*4	✓*4	✓		✓	
PVT-781VT	✓	✓		✓	✓		✓		✓*4		✓*4		✓		✓	
PVT-770RT	✓	✓					✓						✓		✓	
PVT-674BT	✓	✓	✓				✓		✓*4		✓*4		✓		✓	
PVT-675MV	✓	✓					✓						✓		✓	*5
PVT-675MVL	✓	✓					✓						✓		✓	
PVT-681MV	✓	✓		✓	✓		✓		✓		✓		✓		✓	*5
PVT-712BT	✓	✓					✓						✓		✓	
PVT-745BTV	✓	✓					✓						✓		✓	
PVT-745BTF	✓	✓					✓		✓*4		✓*4		✓		✓	
PVT-745BTH	✓	✓					✓		✓*4		✓*4		✓		✓	
PLT-705BT	✓	✓	✓				✓		✓		✓		✓		✓	
PLT-705BTF	✓	✓					✓		✓*4		✓*4		✓		✓	
PLT-705BTH	✓	✓					✓		✓*4		✓*4		✓		✓	
PLT-308P	✓	✓					✓						✓		✓	*6
PLT-604AT	✓	✓					✓		✓*4	✓*4	✓*4	✓*4	✓		✓	
PLT-704AT	✓	✓					✓		✓*4	✓*4	✓*4		✓		✓	
PLT-704SBT	✓	✓	✓				✓		✓*4	✓*4	✓*4		✓		✓	
PLT-805AT	✓	✓		✓	✓		✓		✓*4	✓*4	✓*4	✓*4	✓	✓	✓	
PLT-1005BT	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
PLT-1202S	✓	✓		✓	✓		✓		✓*4		✓*4		✓		✓	
PLT-1204BT	✓	✓	✓	✓	✓		✓		✓*4				✓	✓	✓	
PLT-1204BX	✓	✓	✓		✓		✓				✓*4		✓		✓	
PLT-1204MV	✓	✓					✓		✓*4				✓		✓	*5
PET-508MA				✓			✓	✓							✓*7	
PET-510MA				✓			✓	✓							✓*7	*4
PET-510MB				✓			✓	✓							✓*7	Only for the USA
PET-511BTM				✓			✓	✓							✓*7	*5, *6
PET-512MC				✓			✓	✓							✓*7	*5
PET-512MA				✓			✓	✓							✓*7	*6
PET-805LA	✓	✓					✓		✓		✓		✓		✓	
PC-20M								✓								
PC-50M								✓								

*1 Optional software is required.
*2 Depends on the preset.
*3 Differential THI
*4 Not available in the USA.
*5 UIMV-A500A is required.
*6 Not available in the USA and Canada.
*7 TE (Tissue Enhancement) mode

SPECIFICATIONS

System

- Scan methods: Linear scan (some transducers can perform oblique scanning)
  Sector scan
  Convex scan
  Trapezoid scan
- Monitor: High-definition LED type
  19-inch LCD monitor
  Resolution: 1280 × 1024
  Viewing angle: 178 degrees
  Response speed: typ. 18 ms
  Contrast ratio: typ. 900:1
  Luminance: typ. 330 cd/m^2
- Touch command screen: 10.4-inch
- Presets
  Imaging preset (=Factory Preset) = 24 types
  Imaging preset (=User Preset) = 40 types freely
  Imaging preset (=Sub Preset) = 8 types for each user preset
  Application preset: 20 types
  System preset: 1 types
- HDD: 320GB 2

B-mode

- Viewing depth: Maximum 40 cm (when PVT-375BT is used)
- Line density
  The line density differs depending on the transducer used. Several line densities are available for selection for each transducer.
- Scan angle and scan width
  – Adjustment of scan angle (scan width) is possible.
  – Adjustment of scan steering (scanning position adjustment) is possible.
  – Adjustment of linear scan steering is possible.
- PAN/EXPAND
  Real-time PAN/EXPAND
  – Scale can be enlarged or reduced by the encoder.
  – The panning position can be arbitrarily selected using the trackball.
- Focus
  Transmission: Maximum 8 steps
  Reception: Continuous
  Auto-focusing: Available
  Spot zoom: Available
- Transmission frequency
  Multi-frequency: Maximum 9 types (including THI)
- Dynamic range
- Edge enhancement
- Time-smoothing (persistence)
- Auto gain control
- Postprocessing
- P-SEL
- ApliPure
- Precision
- Gain: Gain can be changed in the range from 60 dB to 100 dB, even after the image is frozen.
- STC: 8-step slide controls (common to B and M modes).
  ± 30dB (max)
- Acoustic output adjustment: Adjustable up to 100%.
- Color Palette (2D MAP): Available
- THI (Tissue Harmonic Imaging)
  – Pulse Subtraction™ THI: Available
  – Differential Harmonic Imaging: Available
- Compounding Imaging (ApliPure plus)
  Frequency and/or Spatial Compounding Imaging in real-time is supported.
  – Speckle reduction Available
- Tissue Specific Optimization: Available (for linear and convex transducers)
- Display orientation: Top/bottom reversal is possible.
  Left/right reversal is possible.

- Biopsy Enhancement Auto mode (BEAM): Available
- Panoramic View: Panoramic View is supported. Measurement is available. Maximum length 227 cm (USPV-A500A is required.)
- Quick Scan: Quick Scan enables automatic gain and STC control for B mode as well as Velocity range and Base line shift control for Spectrum Doppler.
- Maximum frame rate: 500 fps (PST-50BT)
- Gray levels: 256 shades of gray.

M-mode

- M-mode sweep speed: The sweep speed can be changed.
- M-mode gain: M-mode gain can be corrected for B-mode gain.
- M-mode dynamic range
- M-mode edge enhancement
- M AGC
- M-mode postprocessing
- Color Palette (M MAP): Available
- Flex-M: Available (USXM-A500A is required.)

Spectrum Doppler

- Doppler mode: PWD (Pulsed-Wave Doppler)
  HPRF PWD
  CWD (Continuous-Wave Doppler, UICW-A500A is required.)
  Pencil CWD (CWD using pencil transducer, UICW-A500A is required.)
- Doppler pulse repetition frequency (PRF)
  PWD: 0.5 kHz or less, 10 kHz or more
  CWD: 1.6 kHz or less, 50 kHz or more
- Doppler scan: B/D simultaneous scan
  D-only scan
- Doppler sampling volume: The Doppler range gate width can be changed.
- Sample shift: From 0 cm to the maximum depth
- Doppler filter: Doppler cut-off frequency can be changed.
- Doppler gain: Doppler image display brightness can be changed.
- Indication of Doppler spectrum direction: Display of the forward and backward velocity spectrum can be reversed.
- Doppler baseline shift (zero-shift): The baseline (zero-velocity line) 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 (forward flow and backward flow)
- Color Palette (Doppler MAP): Available
- Display of Doppler scale: 2 types (velocity and Doppler shift frequency)
- Doppler focus: Automatically follows the sample position.
- Doppler angle mark display: Available
- Oblique Doppler scan: Oblique scan is possible with some linear transducers.
- Doppler multi-frequency: Doppler transmission and reception frequencies are selectable in PWD.
- M/D sweep speed: 1.733-13.87sec/full screen.
- Doppler Auto trace (After freeze)
  – Trace style: Waveform Peak, Mean, Peak + Mean
  – Trace area specified: Toward, Reverse, All
  – Measurement item: Max, Min, Mean, PI, RI, etc.

Color Doppler

- Color Doppler mode
  - CDI mode
    - Flow velocity
    - Flow velocity/variance
    - Power
  - Power Angio mode
  - TDI mode
  - Advanced Dynamic Flow mode (High-resolution flow imaging)
    - Directions can be displayed.
- Color Doppler velocity range selection (C Scale): Available
- Color Doppler time smoothing (C Time-Smoothing): Available
- Color Doppler frame interpolation (C Frame Interpolation)
  Automatically set according to the transducer information and selected exam conditions.
- Color Doppler baseline (C Baseline)
  The zero-velocity line of color Doppler images can be shifted.
  Zero-shift setting can also be adjusted when an image is frozen or an image in the cine memory is displayed.
- Color reversal: Available
- Balance between B/W and color display
  Color weighting to B/W image can be set by comparing the color Doppler images and B/W images.
- Parallel color Doppler processing
  Simultaneous signal reception in a maximum of 4 directions (QSP) is possible.
- Color gain
  Display brightness of color Doppler images can be changed.
- Color Doppler multi-frequency
  Transmission frequency for color Doppler image acquisition can be changed.
- Color Doppler line density
  Line density of color Doppler images can be changed.
- Color ROI (Region of Interest)
  Adjustment of color ROI position, size, and angle is possible.
- Color Doppler transmission focus
  Automatically follows the color Doppler ROI position.
- Color Doppler filter
  - Filter cut-off can be changed.
  - FIO filter function
- Simultaneous dual-screen display with B mode (TwinView™) is available.
- Maximum frame rate: CDI: 387 fps (PST-50BT)
  TDI: 1,087 fps (PST-50BT)

Reference signal (UJUR-A500A or UJUR-A501A is required.)

The optional reference signal unit is required.

- ECG (Electrocardiogram)
  - Lead I is the standard connection.
  - External input is possible.
  - Lead selection is possible.
- PCG (Phonocardiogram) (UJUR-772A is required.)
  - PCG microphone: Acceleration type
  - Filter: Selectable
- Pulse (UJUR-772A is required.)
  - Pulse transducer: Air conduction type
- Respiration
  - Use of an ECG cable
- Auxiliary input (Aux.)
  A device conforming to IEC60601-1 must be connected.
- ECG gating
  Images can be refreshed in synchronization with heart beats.
- Safety classification
  - Type BF applied part: ECG lead cable
    Thermistor respiration pickup
  - Type B applied part: PCG sensor
    Pulse wave sensor
- Heart rate
  A heart-shaped mark blinks in synchronization with the heartbeat detected by the ECG.
  Heart rate is displayed.

Contrast Harmonic Imaging (USHI-A500A is required.)

- Modes
  - CHI-B (Contrast Harmonic Imaging B-mode)
    - Pulse Subtraction mode (High MI/Low MI)
  - CHI-C (Color Doppler*)

    * Color Doppler is possible in Power Angio mode and Advanced Dynamic Flow mode.
- RPI mode (Realtime Perfusion Imaging)
  - RPI-B (RPI B-mode)
    - Single display mode: RPI only
  - Dual display: Fund/PS-Low
- RPI control
  - RPI gating mode (Flash time interval)
    - Manual
- Frame rate adjustment function
  Frame rate reduction adjustment is possible.
- Range focus
  The range focus function is supported.

CHI-Q (USHI-A500A and USCQ-A500A are required.)

- Image acquisition conditions for performing analysis
  - CHI mode in 2D/4D display (not applicable to Power image)
  - Frozen image and previously acquired image (only if raw data has been stored together)
- Analysis functions
  - Setting of an ROI in the analysis target (e.g., a lesion) and 4 ROIs in reference areas (e.g., normal tissue)
  - Display of changes in the data within the ROIs over time as a graph (TCA)
  - Semi-automatic tracking of the size and position of the ROIs
  - Display of differences between the analysis results of the analysis target and reference areas
  - Change of graph display size (two sizes)
  - Time measurement on the graph
- Dynamic image review mode
  - Loop playback of cine image, change of playback speed
  - Frame-by-frame playback
- File export
  - External output of still image or dynamic image displayed on part of the screen
  - External output of analysis results in a text file

MicroPure (USMP-A500A is required.)

- Display modes
  B mode and Filtered Image

Elastography-FLR (USEL-A501A is required.)

- Image display
  - TwinView display of B-mode image and Strain image
  - Display of velocity profile during data acquisition
- Parameter for strain image calculation
  - Size of the target region in which rigidity is to be evaluated
- Adjustment parameters during image acquisition
  - The settings of the following parameters can be adjusted.
    - · Velocity scale for data acquisition
    - · Frequency for data acquisition
- Image adjustment functions
  - The settings of the following parameters can be adjusted.
    - · Map and Map Range for strain image
    - · Fusion between B-mode image and strain image (weighting between B-mode image and Color image can be adjusted)
    - · Smoothing of strain image

4D (UIMV-A500A is required.)

- Rendering modes
  - VR (volume rendering)
  - MIP (maximum intensity projection)
  - MPR
  - Cavity
- Display format
  - Single-frame display
  - 2-frame display
  - 4-frame display
  - Multi view
  - Volume view
- Functions
  - Navigation functions: Volume image rotation, MPR plane rotation, panning/zooming
  - Clipping function
  - Measurement: Volume
  - Single sweep
- Maximum volume rate: 42 vps (PVT-681MV)

4D OPERATION MODES SUPPORTED BY EACH TRANSDUCER

Transducer name	4D Live mode			Single Sweep mode			4D CHI*1	STIC*1	STIC color*1	Volume color	4D Biopsy	Fly Thru*1	Lumi-nance*1	Max sweep range (deg)
	Fund.	Pulse Subtract ON	Pulse Subtract OFF	Fund.	Pulse Subtract ON	Pulse Subtract OFF								
PVT-375MV	✓		✓	✓	✓	✓*3	✓*4	✓*2	✓*2	✓	✓	✓	✓	75
PVT-382MV	✓		✓	✓	✓	✓*3	✓*4			✓	✓	✓	✓	80
PVT-675MV	✓		✓	✓	✓	✓*3		✓*2	✓*2	✓		✓	✓	75
PVT-675MVL	✓		✓	✓	✓	✓*3		✓*2	✓*2	✓		✓	✓	90
PVT-681MV	✓			✓	✓	✓*3	✓*4			✓	✓	✓	✓	90
PLT-1204MV	✓			✓	✓	✓*3	✓*4			✓	✓	✓	✓	30

*1 Optional software is required.
*2 Depends on the preset.
*3 Differential THI
*4 Not available in the USA.

Smart Fusion (USFN-A500A and UIFR-A500A are required.)

- Displaying 3D image data that has been acquired using another modality and loaded into the diagnostic ultrasound system
- Reconstructing the planar image corresponding to the position of the ultrasound image during examination from the 3D image data that has been acquired by the other modality, based on the positional information obtained by the magnetic position sensor attached to the transducer
- Transducers that support Smart Fusion: PVT-375BT/FD, PVT-375BT/FS PVT-382BT/FS, PVT-350BTP/FS PVT-781VT/FS, PLT-1005BT PVT-375SC

Fly Thru (UIMV-A500A and USFT-500A are required.)

- Display modes that support Fly Thru: MPRA, MPRB, MPRC, Quad display of Perspective Volume Rendering (PVR)
- Adjustment functions: PVR Threshold, PVR Transparency, PVR Filter, PVR View Point, PVR View Direction, PVR FOV, MPR Slice, MPR Zoom, Auto Fly Thru, Manual Fly Thru, Semi Auto Fly Thru, Fly Thru Speed, Initialize
- Transducers that support Fly Thru: PVT-375MV, PVT-675MV, PVT-382MV, PLT-1204MV, PVT-681MV

2D Wall Motion Tracking (UJUR-A500A or UJUR-A501A and USWT-A500A are required)

- Cardiac wall motion tracking by applying local tracking using 2D pattern matching to a 2D dynamic image
- Superimposing wall motion information onto the cross section
- Display of the wall motion parameter curve of a local area and the whole myocardium
- Parameter
  - Parameters for short-axis wall motion: Radial Strain/Radial S-Rate/ Radial Disp. /Radial Velocity/ Circum. Strain/Circum. S-Rate/ Rotation/Rotation Rate/ DI_R-Strain/DI_R-Disp. / DI_C-Strain
  - Parameters for long-axis wall motion: Long. Strain/Long. S-Rate/ Long. Disp. /Long. Velocity/ Trans. Strain /Trans. S-Rate/ Trans. Disp. /Trans. Velocity/ DI_PSS/DI_L-Strain/DI_L-Disp. / DI_T-Strain/DI_T-Disp.
- Output file type of the analyzed data: Bitmap, Text, AVI

Stress Echo (UJUR-A500A or UJUR-A501A and USSE-A500A are required.)

- Image acquisition mode
  - Compatible acquisition protocols
    - Dobutamin
    - Treadmill
    - Protocol that the user registered (at the time of registration)
  - Automatic playback confirmation function
  - Reference clips display function
- Selection mode for acquired images
  - Selection mode for the best beat
  - Playback function
- Review mode
  - Playback function
  - Data output function
  - Wall Motion Scoring (WMS) function
- Playback function
  - Playback start and playback pause
  - Speed control
  - Frame by frame playback
  - Reciprocating playback ON/OFF function
  - Overlay ON/OFF function
- Protocol editor function
  - Phase name registration
  - Loop number selection
  - View name selection

Measurement functions

- Basic measurements
  - B-mode measurements
    Distance
    Area
    Angle
    Volume
    Joint
    Mean_IMT
    Stenosis ratio
  - 4D-mode basic measurement
    Distance
    Volume
  - M-mode measurements
    Slope
    Distance
    Time
    Heart rate
  - PW/CW-mode measurements
    Velocity
    Acceleration
    Time
    Heart rate
    PI
    RI
    S/D
    Flow volume
    Doppler trace
- Application measurements
  - Cardiac measurements
    - B-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
    - M-mode measurements
      LV (left-ventricular function) measurements
      AV (aortic valve) measurements
      MV (mitral valve) measurements
    - Doppler-mode 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 (obstetric) 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.
    - Maximum quadruplet can be measured.
    - Doppler mode measurement is possible.
  - 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
  - Worksheet functions
    - The measurement and calculation items can be displayed for each application measurement.
    - Data editing is possible (except for some items).
    - Selection between mean value display and latest value display is possible.
    - Trend graphs can be displayed (OB measurement report).
    - Comment entry is possible.

Report function (On Board report)

- Reports can be created in the system.
- The created reports can be printed.
- The created reports can be output as PDF files.
- The report template can be edited.

Cine memory (mass-storage image memory)
- Memory capacity: 256 MB (Maximum 4095 frames)
- Record/playback modes
  - Loop playback is possible.
  - Frame-advance playback is possible.
  - Cine playback is possible for Doppler images and M-mode images. (maximum 30 s (PAL), 37.5 s (NTSC))
  - Clips: Live images can be recorded.

Video recording
- DVD-Video remote control
  - The following control operations are possible: Record, stop, play, fast-forward, rewind, forward search, reverse search, and freeze (pause).

Recording functions
- Printer (option)
  Black and white printer: USB connection
  Color printer: USB connection

Storage & Archiving
- Hard disk drive (Image Storage area: 173GB)
- DVD/CD drive (CD-R/DVD+R)
  - CD-R speed: 24x
  - DVD+R speed: 8x
- USB flash drive
- Network: DICOM (option)

Image format to export
- Still: BMP/ JPEG
- Movie: MPEG-4/ cinepack/ WMV7/ WMV9

DICOM*
(1) DICOM Media Storage
(2) DICOM Verification
(3) DICOM Storage (Network)
(4) DICOM Print
(5) DICOM Storage Commitment
(6) DICOM MULTI FRAME (Network Transfer)
(7) DICOM MWM (Modality Worklist Management)
(8) DICOM Query/Retrieve
(9) DICOM MPPS (Modality Performed Procedure Step)
(10) DICOM Structured Reporting

* USDI-A500A is required for all items other than DICOM Media Storage, which is provided in the standard configuration.

Signal I/O
- Transducer connectors
  - Transducer connectors: 4
  - Pencil transducer connector: 1
- DVD input/output signals
  - S-VHS output
  - S-VHS input
  - Audio output: L and R
  - Audio input: L and R
  - Recorder control signal: RS-232C
- External video output signal
  S-VHS 1
  Color composite 1
  DVI-I 1
- Printer signal
  USB: 2 channels
- RS232C
  - DVD-Video control: 1 channel
  - Fusion control: 1 channel
- External USB: 2 channels (for service use)
  - USB port for data transfer: 5 channel
- Ethernet
  - 10/100/1000Base-T: 1 channel
- Footswitch: 2-switch footswitch

Requirements for use
- Line voltage
  - Japan: 100 VAC ±10%
  - USA: 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
- Line capacity
  - Japan: 1500 VA
  - USA: 1440 VA
  - Europe: 1500 VA
  - Other 1: 1440 VA
  - Other 2: 1500 VA
- Environmental requirements for use
  - Temperature: 10°C to 35°C (20°C to 35°C for use of a 4D transducer)
  - Relative humidity: 35% to 80% (no condensation)
  - Atmospheric pressure: 700 hPa to 1060 hPa

Recommended peripheral devices

• B/W digital printer	Sony	UP-D897
	Mitsubishi	P95DW
• Color digital printer	Sony	UP-D25MD
	Mitsubishi	CP30DW
• DVD video recorder	JVC	BD-X201M
	Sony	DVO-1000MD

Monitor adjustable range

- Swivel: ± 60°
- Tilt: +40°, -10°

Operation panel adjustable range

- Swivel: ± 40°
- Updown: 140 mm

Safety classification

- According to the type of protection against electric shock:
  CLASS I
- According to the degree of protection against electric shock:
  EQUIPMENT WITH TYPE-BF APPLIED PARTS (reference signal cable)
  EQUIPMENT WITH TYPE-B APPLIED PARTS (PCG, pulse)
- 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.
- 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

Compliance

- Canada
  – General
  IEC60601-1 (1988), Amd. 1 (1991), Amd. 2 (1995)
  CAN/CSA-C22.2 No. 601.1-M90
  – Particular
  IEC60601-2-37 (2001), Amd. 1 (2004), Amd. 2 (2005)
  – Acoustic power
  Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers (2008)
  (FDA guidance)
  – EMC
  IEC60601-1-2 (2001), Amd. 1 (2004)
- EU and other regions requiring compliance with European Directive 93/42/EEC
  – General
  EN60601-1 (2006)
  – Particular
  EN60601-2-37 (2008)
  – Acoustic power
  Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers (2008)
  (FDA guidance)
  – EMC
  EN60601-1-2 (2007)
- USA
  – General
  IEC60601-1 (1988), Amd. 1 (1991), Amd. 2 (1995)
  UL 60601-1(2003) R6.03
  – Particular
  IEC60601-2-37 (2001), Amd. 1 (2004), Amd. 2 (2005)
  – Acoustic power
  Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers (2008)
  (FDA guidance)
  – EMC
  IEC60601-1-2 (2001), Amd. 1 (2004)
- Other regions
  – General
  IEC60601-1 (1988), Amd. 1 (1991), Amd. 2 (1995)
  – Particular
  IEC60601-2-37 (2001), Amd. 1 (2004), Amd. 2 (2005)
  – Acoustic power
  Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers (2008)
  (FDA guidance)
  – EMC
  IEC60601-1-2 (2001), Amd. 1 (2004)

DIMENSIONS, MASS, AND POWER CONSUMPTION

Unit	Model name	External dimensions mm (in)						Mass kg (lb) (approx.)		Power consumption (approx.)
		Width		Height		Depth				
Main unit	TUS-A500	580	(22.8)	1,390 to 1,790	(54.7) to (70.5)	890 to 1,010	(35) to (39.8)	145	(319.7)	450 VA 50 VA*1
DVD video recorder	Sony DVO-1000MD [NTSC/PAL]	212	(8.4)	128.5	(5.1)	382	(15)	6	(13.2)	35 W
	JVC BD-X201M [NTSC] JVC BD-X201ME [PAL]	212	(8.4)	88	(3.5)	352	(13.9)	4.8	(10.6)	100 VA to 108 VA
B/W digital printer	Sony UP-D897	154	(6.1)	88	(3.5)	240	(9.4)	2.6	(5.7)	190 VA (printing)
	Mitsubishi P95DW	154	(6.1)	84.5	(3.3)	239	(9.4)	2.6	(5.7)	190 VA (printing)
Color digital printer	Mitsubishi CP30DW	212	(8.3)	125	(4.9)	425	(16.7)	7.3	(16.1)	180 VA (printing)
	Sony UP-D25MD	212	(8.3)	98	(3.9)	398	(15.7)	5.5	(12.1)	240 VA (printing)

*1 In Standby mode with internal battery UEBT-A500A

MASS

Model name	Name of component	Mass [kg] (lb)
System main unit		
TUS-A500	Aplio500	145 (319.7)
Options/Accessories for main unit		
BD-X201M	DVD video recorder	4.8 (10.6)
BD-X201ME	DVD video recorder	4.8 (10.6)
CP30DW	Color printer	7.3 (16.1)
DVO-1000MD	DVD video recorder	6 (13.2)
P95DW	B/W printer	2.6 (5.7)
UACV-A500A	CV kit	1.0 (2.2)
UAEH-002A	Motor driven TEE hanger	1.3 (2.9)
UAEH-770A	M-TEE hanger	1.2 (2.6)
UAFS-001A	Mounting kit for Fusion sensor	0.1 (0.2)
UAFS-002A	Mounting kit for Fusion sensor	0.1 (0.2)
UAFS-003A	Mounting kit for Fusion sensor	0.1 (0.2)
UAFS-004A	Mounting kit for Fusion sensor	0.1 (0.2)
UEBT-A500A	Battery kit	1.5 (3.3)
UICW-A500A	CW unit	2.0 (4.4)
UIFR-A500A	Fusion unit	15 (33.1)
UIFR-A501A	Sensor kit for Fusion Unit	0.1 (0.2)
UIHV-A500A	HV power kit	0.4 (0.9)
UIMV-A500A	4D unit	2.0 (4.4)
UISN-A500A	Smart Navigation Sensor kit	1.0 (2.2)
UJUR-772A	Reference Signal sensor unit	2.5 (5.5)
UJUR-A500A	Reference Signal unit	3.0 (6.6)
UJUR-A501A	Reference Signal unit	3.0 (6.6)
UOPM-A500A	Operation manuals	3.0 (6.6)
UP-D25MD	Color printer	5.5 (12.1)
UP-D897	B/W printer	2.6 (5.7)
USAN-A500A	Auto NT kit	0.1 (0.2)
USCQ-A500A	CHI-Q kit	0.1 (0.2)
USDI-A500A	DICOM kit	0.1 (0.2)
USEL-A501A	Elastography-FLR kit	0.1 (0.2)
USFN-A500A	Smart Fusion kit	0.1 (0.2)
USFT-A500A	Fly Thru kit	0.1 (0.2)
USHI-A500A	CHI kit	0.1 (0.2)
USLM-A500A	Luminance kit	0.1 (0.2)
USMI-A500A	Superb Micro vascular Imaging kit	0.1 (0.2)
USMP-A500A	MicroPure kit	0.1 (0.2)
USMS-A500A	1.5D Transducer kit	0.1 (0.2)
USPA-A500A	Protocol Assistant kit	0.1 (0.2)
USPM-A500A	Parametric MFI kit	0.1 (0.2)
USPV-A500A	Panoramic View kit	0.1 (0.2)
USSE-A500A	Stress Echo kit	0.1 (0.2)
USSM-A500A	Security Management kit	0.1 (0.2)
USSN-A500A	Smart navigator kit	0.1 (0.2)
USST-A500A	4D STIC Imaging kit	0.1 (0.2)
USSW-A500A	Shear Wave kit	0.1 (0.2)
USVI-A500A	Vascularity Index kit	0.1 (0.2)
USWT-A500A	2D Wall Motion Tracking kit	0.1 (0.2)
USXM-A500A	FLEX-M kit	0.1 (0.2)
UZFS-A500A	Footswitch	1.6 (3.5)
UZGW-007A	Gel warmer	1 (2.2)
UZMK-A500A	Transducer cable hanger kit	0.9 (2.0)

Model name	Name of component	Mass [kg] (lb)
UZRI-A500A	Mounting kit for peripheral unit	5.6 (12.4)
UZRI-A501A	Mounting kit for peripheral unit	0.8 (1.8)
UZWT-A500A	Fusion Pole Cart	26 (57.3)
Transducers		
PC-20M	Pencil transducer	0.085 (0.2)
PC-50M	Pencil transducer	0.08 (0.2)
PET-508MA	Sector transducer	1.2 (2.6)
PET-510MA	Transesophageal transducer	1.25 (2.8)
PET-510MB	Transesophageal transducer	1.25 (2.8)
PET-511BTM	Multi-plane transesophageal transducer	1.52 (3.4)
PET-512MC	Multi-plane transesophageal transducer	1.6 (3.5)
PET-512MA	Multi-plane transesophageal transducer	1.32 (2.9)
PET-805LA	Linear transducer	1.17 (2.58)
PLT-308P	Linear transducer	0.85 (1.8)
PLT-604AT	Linear transducer	0.9 (2.0)
PLT-704AT	Linear transducer	0.85 (1.9)
PLT-704SBT	Linear transducer	0.9 (2.0)
PLT-705BT	Linear transducer	0.85 (1.9)
PLT-705BTF	Linear transducer	0.78 (1.7)
PLT705BTH	Linear transducer	0.78 (1.7)
PLT-805AT	Linear transducer	0.85 (1.9)
PLT-1202S	Linear transducer	0.85 (1.9)
PLT-1005BT	Linear transducer	0.85 (1.9)
PLT-1204BT	Linear transducer	0.85 (1.9)
PLT-1204BX	Linear transducer	0.92 (2.0)
PLT-1204MV	Linear transducer	1.23 (2.7)
PST-25BT	Sector transducer	0.8 (1.8)
PST-30BT	Sector transducer	0.8 (1.8)
PST-50BT	Sector transducer	0.8 (1.8)
PST-65AT	Sector transducer	0.7 (1.5)
PVT-350BTP	Convex transducer	0.95 (2.1)
PVT-375BT	Convex transducer	0.95 (2.1)
PVT-375MV	Convex transducer	1.1 (2.4)
PVT-382BT	Convex transducer	0.8 (1.8)
PVT-375SC	Convex transducer	0.95 (2.1)
PVT-382MV	Convex transducer	1.04 (2.3)
PVT-661VT	Endocavitary transducer	1 (2.2)
PVT-674BT	Convex transducer	0.9 (2.0)
PVT-675MV	Convex transducer	1.1 (2.4)
PVT-675MVL	Convex transducer	1.1 (2.4)
PVT-681MV	Endocavitary transducer	1.15 (2.5)
PVT-712BT	Convex transducer	0.8 (1.8)
PVT-745BTV	Convex transducer	0.78 (1.7)
PVT-770RT	Convex/Convex transducer	2 (4.4)
PVT-745BTF	Convex transducer	0.8 (1.8)
PVT-745BTH	Convex transducer	0.8 (1.8)
PVT-781VT	Endocavitary transducer	0.97 (2.1)

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Toshiba Medical Systems Corporation meets internationally recognized standards for Quality Management System ISO 9001, ISO 13485.

Toshiba Medical Systems Corporation Nasu Operations meets the Environmental Management System standard ISO 14001.

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