

Ultrasound System DUS - 9000





3D,4D Volumetric, S-Live DUS -9000

High definition LCD color display with articulated arm
 Ergonomic second display touch screen
 Five active transducer ports
 Digital front-end technology
 Multi-beam forming technology
 Compound imaging
 μ -scan image processing
 Tissue harmonic imaging
 Phase-inversion harmonic imaging
 High pulse repetition frequency
 Panoramic imaging
 3D/4D imaging, FreeHand 3D
 Exam-type icons
 Elastography Imaging
 Contrast imaging
 DVD / RV Burner
 ECG function Module
 μ -scan
 5-band adjustable frequency in B mode
 Tissue characteristic index
 Modes: THI, PIH, Color, DPI, DPDI, PW, Steer M, Color M, TDI, CW, B
 Dual beams
 Image rotation function
 Spatial compound imaging
 Trapezoidal imaging
 Capacity of Image and film
 Biopsy enhanced
 Stress Echo (optional)
 Measurement package: Basic, Obstetrics, Gynecology, Cardiology, Abdomen, Vascular, Urology, Small parts, Pediatrics, Myocardial performance index, Orthopedic
 PW auto trace
 IMT measurement
 A wide range of transducers is available
 DICOM: transmission, worklist, MPPS, Q/R, AVI / JPG, 6 USB, DVD, PDF format
 WIFI Connectivity
 Power Supply: AC 100~240 Volts 50/60 Hz.
 Meet ISO 13485 Quality Standard
 Two years warranty.



DUS-9000

Ultrasound Digital System
Outstanding performance
in multiple applications

Cardiology

Gastroenterology

Radiology

Emergency

Anesthesia

Urology

Vascular

MSK

Ob/Gyn

Internal
Medicine

Abdomen

Others

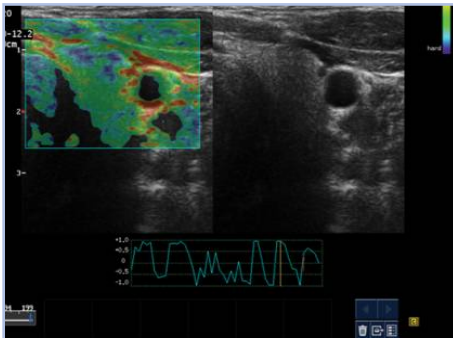


Ultrasound Digital System

New cutting-edge 4D digital imaging technology

The DUS - 9000 provides images of exceptional resolution and detail, adding wide range of services with shared capabilities such as vascular, abdominal, pediatric / fetal, OB and OR and other applications.

Ultrasound images



Elastography



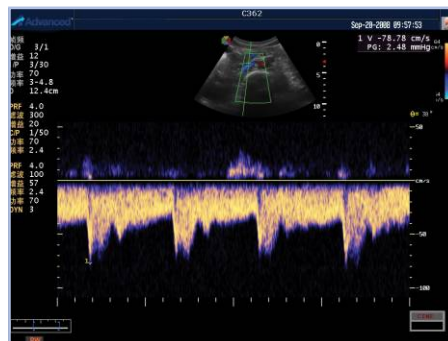
Trapezoidal Image



Panoramic View with Color



Fetus



Umbilical Artery



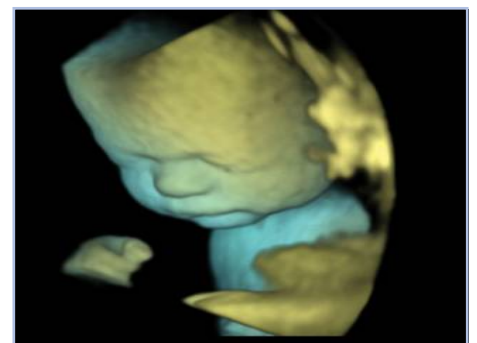
Kidney Power Flow



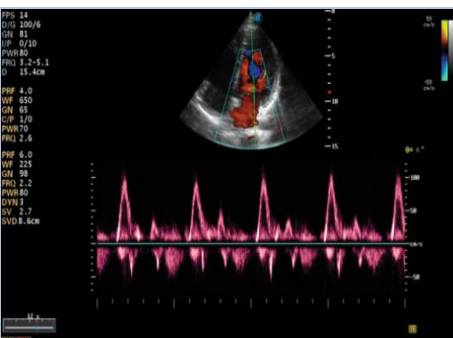
3D/4D



4D S-Live



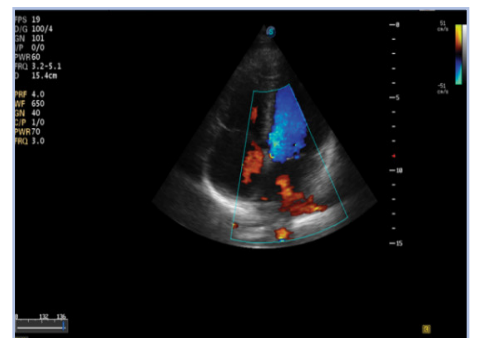
4D S-Depth



Aorta Spectral




Vascular




TDI

Convex Transducer


Gain 0-255

AI C322	72 Elements Micro-Convex Array C322 (Abdominal Biopsy). Frequency 2.0-6.8MHz/ R20mm. Biopsy Guide.	
AI C353	128 Elements Convex Array C353 (Abdominal, Obstetrics, Gynecology), 2.0-6.8MHz/ R55mm.	
AI 3C-A	128 elements convex array 3C-A (Patients with difficult access and obese & abdominal obese, Obstetrics, Gynecology), 1.0-7.0MHz/ R50mm.	
AI C611	72 elements Micro-Convex Array C611 (Cardiology, Pediatrics), 4.0-13.0MHz/ R11mm.	
AI VC6-2	Volumetric convex array VC6-2 (Obstetrics, Abdominal, Gynecology), 2.0-6.8MHz/ R40mm. (4D)	


Linear Transducer

AI L741	128 elements Linear Array L741 (Vascular, Small Parts, MSK, Breast) Frequency 5.0-12.0MHz/46mm). Biopsy Guide.	
AI L742	192 elements Linear Array L742 (Vascular, Small parts, MSK, Breast)Frequency 5.0-16.0MHz/ 38mm). Biopsy Guide	
AI L743	192 elements Linear Array L743 (Vascular, Small parts, MSK, Breast), 4.0-16.0MHz/ 46mm) Biopsy Guide.	
AI L752	256 elements Linear Array L752 (Vascular, Small parts, MSK , Breast), 4.0-16.0MHz/ 52mm).	
AI 10I2	96 elements linear array 10I2 (Intra- operative Application: Musculoskeletal, Small Parts, Nerve, Vascular, Surgery) 4.0-16.0MHz/ 25mm.	


Cardiological Transducer

AI 4P-A	64 elements phased array 4P-A (Adult Cardiac, Transcranial) Frequency 1.0-5.4MHz	
AI 5P2	64 elements phased array 5P2 (Cardiac, Transcranial, Pediatric), Frequency 2.0-9.0MHz	
AI PWD 2.0	PWD 2.0 (Cardiac, Transcranial), 2.0MHz	
AI CWD 2.0	CWD 2.0 (Cardiac, Transcranial), 2.0MHz	
AI CWD 5.0	CWD 5.0 (Cardiac, Transcranial), 5.0MHz .	

Vaginal and Rectal Transducer

AI 6V3	192 elements endocavity 6V3 (Gynecology, Obstetrics, Urology), 3.0-15MHz/ R10mm.	
AI 6V7	192 elements endocavity 6V7 (Gynecology, Obstetrics, Urology), 3.0-15MHz/ R10mm.	
AI EC9-5	128 elements transrectal EC9-5 (Urology), 3.0-15.0MHz/ R8mm.	
AAI BCC9-5	128/128 elements biplane BCC9-5 (Urology), 3.9-11.0MHz/ R10mm	

Transesophageal Transducer

AI MPTEE	64 elements transesophageal (Adult) Frequency 4.0-13.0MHZ	
AI MPTEE Mini	48 elements transesophageal (Pediatric) Frequency 4.0-13.0MHZ	

Technical Specifications

B - Mode	Gain 0-255 Depth: 32.9 cm Max (According probe used) Zoom: Max . = 10 TGC : 8 Controls Slide Inversion: Left / Right / Up / Down Mode: 2B & 4B Focus : Up to 12 , Lapse Adjustable focus	Frequency : 5 Easy Steps U - Scan: Adjustable Dynamic Range: 20-280 dB (According probe used) GSC 7 selectable stages , 0-255 Sec . Width adjustable position B side image . Power: 1-100 % Changeable			
3D/4D Imaging	3 Simultaneously arbitrary sections Display Mode: Dual Display Quadruple Screen Full Screen 2D Full Screen 3D Full Screen 4D Rotation: X / Y / Z Movement: D / A -A Auto Rotation: 45, 90, 180, 270.360 ° Adjustable. Capacity: 0-255 Offset Adjustable - Adjustable 0-255 Pending	Z scale: Adjustable Z angle: 10-170 ° Adjustable Map of Color: 4 Types Multi-Slice: Ref A, Ref B, Ref C Cutting Space: 0.5-2.0 Adjustable Scanning Angle: 20-75 degrees Image Quality: High, Medium, Low 4D Gain: Adjustable Freq. Image: 5 frames / sec or more			
Capacity of image and Film	Image storage in real time single / dual Static and Dynamic Archived image can be viewed on PC Audio Player Doppler Cinema	Cine Loop: 10000 frames or more Film Loop Time: 60 seconds or more (> = 500 frames per film)			
DICOM Display signal Physiologic	ECG , Pulse Wave ECG Gain: Adjustable ECG Position: Adjustable ECG Inverted: On / Off	R- Timer: On / Off Trigger Delay : Adjustable Frame Count : Adjustable			
User Interface Keyboard	Keyboard abbreviation integrated Recording keys for remote control peripherals and devices DICOM 5 active ports for connecting transducers	8 TGC - Slots Integrated Function Key External keyboard			
Character and Icon	Entry Area : ID , Name, Date, Birth , Gender , Height , Weight, Last menstrual period. Body mark : 52 Types				
Optional Probe	Phased Array Probe (Cardiology) Linear Probe (Vascular Small-Parts) Curved Prove (Abdomen, OB/GYN)	Micro - Curved Probe (Transvaginal) Micro - Curved Probe (Cardiologia) Linear Surgical (Surgery)			
Measurements	General Measurements Color Mode B – Mode M - Mode 4D - Mode Spectral Doppler Obstetrical / Gynecological Measurements B - Mode Pulse - wave mode TEI Index	Cardiac Measurements B – Mode M – Mode Pulse _ Wave Mode Vascular Measurements Urologic Measurements Small Parts Measurements Orthopedic Measurements IMT Measurements			
Environmental Requirements	Temperature: +10 to +40 ° C Relative Humidity: 30 % to 75 % (non-condensing) Atmospheric Pressure: 700 to 1060 hPa				
Applications	Anesthesia Cardiology	Gynecological and Obstetric Musculoskeletal	Vascular Urology	Small Parts Pediatric	Orthopedic Interventional ultrasound
Scaning Method	Probe Curve: 70 ° or more	Phased Array Probe : 90 ° or more		Probe Micro - curve: 193 ° or more	
DICOM Network Communication	Storage: Directly transmits images with patient information to the DICOM file server. Print: Images can be printed directly using a DICOM compatible printer. DICOM Storage Commitment, DICOM Worklist, DICOM MPPS, DICOM Q/R Medical digital images and communication DICOM 3.0 interface.				

Technical Specifications

Exploration Mode	4D image Biplane probe Color M mode TDI mode CW mode	Eco Stress 2D panoramic images Panoramic images influx Color mode Elastography images Biopsy specialized guide
Image Mode	Adjustable Gain 1-255 Depth: 42.9cm Image Zoom (0.8 to 10 times) TGC: 8 control levels Inversion Image: Left, Right, Up and Down Panoramic image Composite image: Off, 1, 2 adjustable Focus: Up to 12, range Adjustable Focus (depending on the probe) Frequency: 5 adjustable bands Chromatic: 13 selectable types Adaptive image fusion: 15 selectable types U -Scan: 0, 2, 3, 7 and 11 adjustable	Line Density: 3 adjustable levels (High - medium-low) Persistence: 0-95 selectable Biopsy Guide Function: On / Off Guide biopsy adjustable angle Dynamic range: 20-280 (depending on the probe) Grayscale curve 7 selectable Image width and position: adjustable Power: 1-100 adjustable, one step at Tissue Acoustic : 400-1700 LGC: adjustable gain in the left / right side Trapezoid image on and off (linear array probe) Direction Mode B M- Tuning
Flow Mode Colour (CFM) / Mode Doppler Tissue(TDI)	Gain 0-255 Frame Rate : 2,3,4,5,7 MHz Frequency range: 5 Stages Size and position of ROI colors : Adjustable Auto Focus (number of focus : 1) Inversion: up / down , left / right Reverse flow : On / Off Frequency range: 5 stage adjustable Filtering Wall : 25-750Hz (depending on the probe) PRF : 0.5 to 12 KHz	Line density : 4 types (Low / medium / high / high -Max) Color/Direction energy: 11 selectable types by Color Doppler , and 4 types selectable by Doppler Tissue Color Adjustment baseline : ± 15 levels Persistence: 0-80 (depending on the probe) Rejection B: 0-255 adjustable Linear deflection angle : 0, ± 16 , ± 20 adjustable Flow Color: Available in frozen mode M -tuning
M - Mode	Orientation M: 3 sample lines, Display frame rate Video Inversion (On/Off) Chroma: 5 types Display Format: H1/2, H1/4, V1/3, V1/2, V2/3, O1/4 Scan Speed: 6 levels adjustable	M Processing: Switch between average and peak values Power: 30-100 adjustable Color Modo-M: displays both color flow and M mode Inverse Video: off and on Inversion: up and down
Spectral Doppler	Pulse Wave Doppler (PWD) Continuous Wave Doppler (CWD) Sample Size PW Doppler: 1-20 mm Modifiable 1 mm Update 2D: On / Off Invert Video: On / Off Mode: 2B Audio Volume: 0-100 Adjustable Filter: 50-1000Hz (PW and CW) Angulo: 0-80 degree Auto real-time tracking	Vertical Shift: Available up to 17 phases Frequency: 5 phases PRF Adjustable: PW 1 to 16 KHz - CW 1-48 KHz Maximum Speed Range: PW 0.0007-18.2 m / s – CW 0.0012-61.4 m / s Scanning Speed: 2,4,6,8 Seg / Plano Power: 30-100 % Changeable Dynamic Range: 10 selectable stages Display Format: H1 / 2 , H1 / 4 , V1 / 3 , V1 / 2 , V2 / 3 , O1 / 4 Steering Angle: 5 Types (Probe Linear) Max. ± 20 Degrees, 0, ± 16 / ± 20 Modifiable.
Functions Report	Obstetrics Report / Gynecology Report Cardiac Function Vascular Report	Urology Report Small Parts Report IMT Report
Data Management System	Memory capacity hard drive : 500 GB Storage media : 5 USB Drive or DVD VGA Output	
Physical Specifications	997mm (L) x 684mm (W) x 1517mm (H) 4-identical probe connectors, 1 pencil probe connector 19" monitor, anti-flickering with LED backlight can be vertically or horizontally swiveled. 13.3" Ergonomic second display touch screen	Weight: approx. 150kg 5 probe holders

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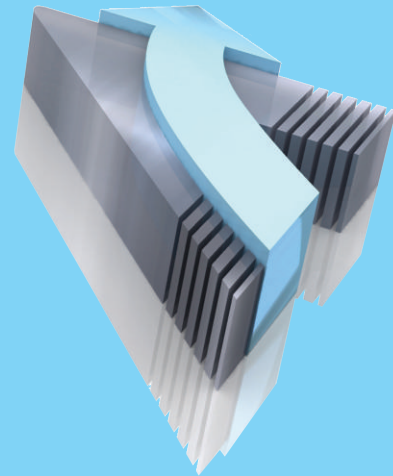
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