

Ultrasound System

DUS - 5000



Ultrasound System DUS 5000

Powerful Technologies to Be Your Portable Right Assistant

The Advanced® DUS-500 Digital Ultrasound Diagnostic Imaging System is an impressive new compact ultrasound system, providing superb value and the best quality across the entire range of applications with enhanced support of PW/CW, color doppler flow imaging, power doppler imaging, pulse wave doppler imaging to meet the higher diagnostic requirements.



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TFT-LCD Color Display with backlight.

Portable device with handle.

Folding Alphanumeric keyboard with trackball.

One Cable holder.

Two transducer ports.

One probe holder.

Coupling gel trough.

Display modes: B, B+B, 4B, B+M, M, B+PW, B+Color, B+Color+PW, B+PDI & B+PDI+PW.

Cine loop color and Black & white frames.

Beam-Forming: Digital Beam-forming, Dynamic. Receiving Focusing, Real-time Dynamic Aperture, Dynamic Frequency Scanning, Dynamic Apodization, Tissue Harmonic Imaging, Tissue Specific Imaging.

Image process (IP) Pre/Post processing.

Zoom

Color doppler flow imaging and power doppler imaging

Pulse wave doppler

B/Color Mode: Distance, Cir/Area (Ellipse/Trace) Volume (2-Axis/3-Axis), Ratio, % Stenosis, Angle, and Histogram

M Mode: Distance, Time, Slope and Heart Rate (two cycle)

PW Mode: Velocity, Heart Rate, time, acceleration, resistance Index (RI) Pulsatility Index (PI) and auto (auto trace)

Transducer options include: Convex array, Linear array, Endocavity, and Micro-convex array

Two USB Ports and Network port (DICOM 3.0)

VGA output port and Video output port

Optional video printer / Laser printer / Ink printer / Biopsy guide / Freeze footswitch / Carried bag / Mobile trolley /

Portable hard disk

Built-in image archive

Built-in high capacity rechargeable battery

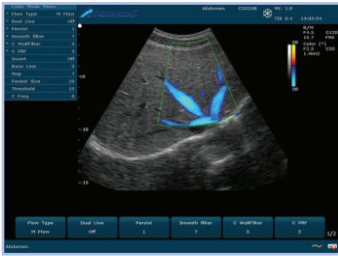
Meet ISO 13485 Quality Standard

Meets FDA 510(k) requirements

Two years warranty



Ultrasound Images



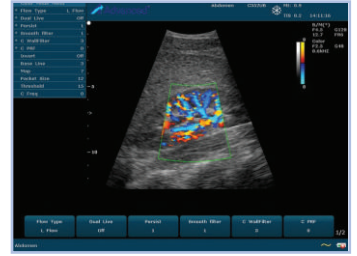
Hepatic Veins



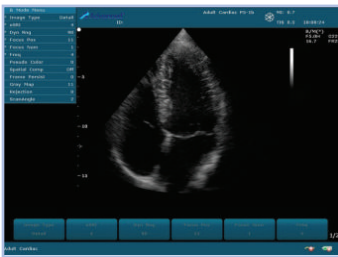
Hepatic Veins-2



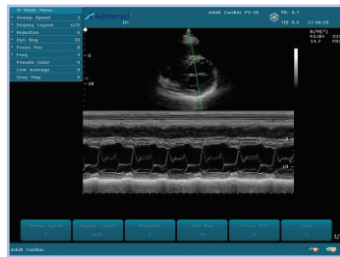
Pancreas



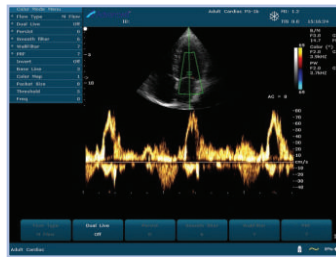
Renal Color Doppler



Adult Cardiac



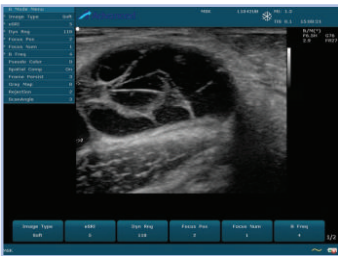
Mitral M Mode



Mitral Valve Inflow
PW Doppler



Parasternal Long Axis



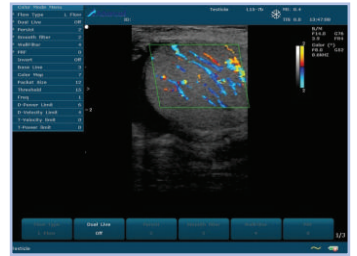
Baker's Cyst



Breast-2



Cervical Lymph Nodes



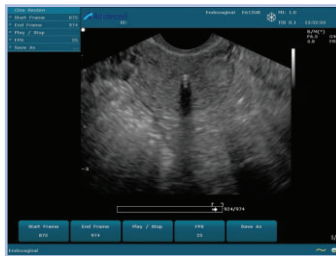
Testicular Color Doppler



Color Doppler
Umbilical Cord



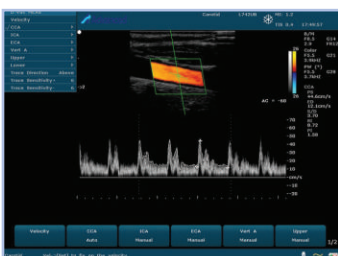
Uterine Artery Endovaginal



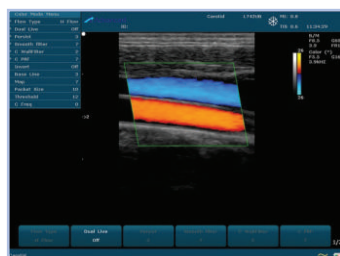
Endovaginal IUD



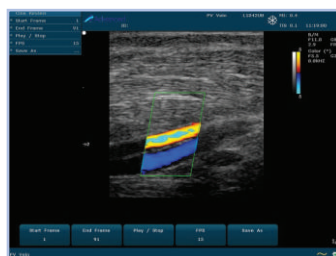
Fetal Aortic Arch



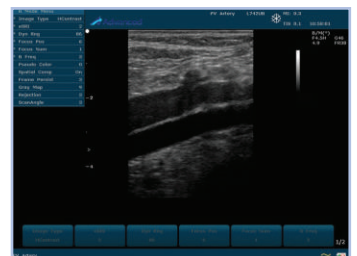
Carotid Auto Doppler



Carotid, Jugular



Color Doppler
Lower Extremity



Popliteal Vein and Artery

Transducer Convex Array

- AI C352UB** Transducer Convex Array (128 elements) (Bandwidth 2.0~6.0 Mhz) (Convex Radius 50mm) (FOV Max: 70°) (Scanning depth 19~324mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 2.5/3.5/4.0 MHz) (Harmonic: H5.0/H5.4 MHz) (Doppler: 2.5/3.0 MHz)
Applications: OB/GYN, Abdomen , Pediatrics , Urology
- AI C5-2b** Transducer Convex Array (128 elements) (Bandwidth 2.0~6.0 Mhz) (Convex Radius 60mm) (FOV Max: 58°) (Scanning depth 19~324mm) (Single-angle biopsy kit optional) Frequencies: (B-Mode 2.5/3.5/4.0 MHz) (Harmonic: H5.0/H5.4 MHz) (Doppler: 2.5/3.0 MHz)
Applications: OB/GYN, Abdomen, obese patients or patients difficult to access



Transducer Micro-Convex

- AI C6152UB** Transducer micro-convex array (128 elements) (Bandwidth 4.3~9.3 Mhz) (Convex Radius 15mm) (FOV Max: 99°) (Scanning depth 19~127mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 5.5/6.5/7.5 MHz) (Harmonic: H9.0/H9.4 MHz) (Doppler: 4.0/5.0 MHz)
Applications: Cardiology, Pediatric, Neonatology
- AI C422UB** Transducer micro-convex array (128 elements) (Bandwidth 2.6~5.5 Mhz) (Convex Radius 20mm) (FOV Max: 100°) (Scanning depth 19~196mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 3.0/4.0/5.0 MHz) (Harmonic: H5.0/H5.4 MHz) (Doppler: 2.5/3.0 MHz)
Applications: Abdomen, Adult Cardiology
- AI C612B** Transducer micro-convex array (128 elements) (Bandwidth 4.7~9.5 Mhz) (Convex Radius 10mm) (FOV Max: 146°) (Scanning depth 19~127mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 5.5/6.5/7.5 MHz) (Harmonic: H9.0/H9.4 MHz) (Doppler: 5.0/6.0 MHz)
Applications: Pediatrics, Pediatric Cardiology



Lineal Transducer

- AI L1042UB** Lineal transducer (128 elements) (Bandwidth 8.0~12.0 Mhz) (FOV Max: 37.4mm) (Scanning depth 19~108mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 8.0/9.5/11.0 MHz) (Harmonic: H13.0/H13.4MHz) (Doppler: 5.5/6.5 MHz)
Applications: Peripheral Vascular , Musculoskeletal (Conventional and Superficial), Small Parts
- AI L742UB** Lineal transducer (128 elements) (Bandwidth 5.0~10.0 Mhz) (FOV Max: 37.4mm) (Scanning depth 29~127mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 6.5/7.5/8.5 MHz) (Harmonic: H9.0/H9.4 MHz) (Doppler: 5.5/6.5 MHz)
Applications: Peripheral Vascular , Musculoskeletal (Conventional and Superficial), Small Parts
- AI L552UB** Lineal transducer (128 elements) (Bandwidth 3.7~7.6 Mhz) (FOV Max: 50mm) (Scanning depth 19~157mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 4.5/5.5/6.5 MHz) (Harmonic: H5.6/H6.0 MHz) (Doppler: 4.5/5.0 MHz) Applications: Peripheral Vascular, Musculoskeletal (Conventional and Superficial), Pediatrics, Small Parts
- AI L15-7B** Lineal transducer (128 elements) (Bandwidth 7.0~16.0 Mhz) (FOV Max: 37.4mm) (Scanning depth 19~108mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 10.0/12.0/14.0 MHz) (Harmonica: H4.4/H4.8 MHz) (Doppler: 7.2/8.0 MHz)
Applications: Mamas, Musculoskeletal (Conventional and Superficial), Small Parts



Transvaginal transducer

- AI E612UB** Transvaginal transducer (128 elements) (Bandwidth 5.0~8.0 Mhz) (Convex Radius 10mm) (FOV Max: 146°) (Scanning depth 19~127mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 5.5/6.5/7.5 MHz) (Harmonic: H9.0/H9.4 MHz) (Doppler: 5.0/6.0 MHz)
Applications: Endovaginal Endorectal



Phase Array Transducer

- AI P5-1UB** Phase array transducer (64 elements) (Bandwidth 1.8~4.3 Mhz) (FOV Max: 90°) (Scanning depth 19~314mm) (Single-angle biopsy kit optional)
Frequencies: (B-Mode 2.0/2.5/3.0 MHz) (Harmonic: H4.0/H5.0 MHz) (Doppler: 2.0/2.5 MHz)
Applications: Cardiac Screening and Triage



Technical Specifications

General	Display	12.1” TFT-LCD	
	Gray Scale	256 levels	
	Image Mode	B-Mode: simple, doble, quadruple Color Mode: B+C, B+B/C, B/C/PW, Mode PDI/DPDI +B/PDI (DPDI), B+B/PDI(DPDI) + B/PD I, (DPDI)/PW. Mode PW: B/PW + B+C/PW, B+PDI (DPDI)/PW + B/C/PW, B/PDI (DPDI)/PW.	Mode CW: B+C/CW, B+PDI (DPDI)/CW + B/C/CW, B/PDI, (DPDI)/CW. M-Mode: B/M (Screen Layout: up/down, left/right
	Transducer Frequency	2.0 - 16.00 MHz Scanning Angle: from 30 to 150 degrees depending on transducer.	Scanning Depth (mm): from 20 a 320 depending on transducer
	Beam Forming	Digital Beam-forming Dynamic Receiving Focusing Real-time Dynamic Aperture Dynamic Frequency Scanning	Dynamic Apodization Tissue Harmonic Imaging Tissue Specific Imaging
	Aplications	Abdominal, Obstetrics, Urology, Cardiology, Pediatrics, Small Parts, Superficial, Gynecology, Vascular Peripheral, Musculoskeletal, Pain management/anesthesiology, Emergency Medicine.	
	Functions	Zoom	Real- time and frozen images up to 4X
Cine Review		409 color / 1227 macros in white and black	
Storage Capacity		Integrated memory 504MB Ability to incorporate external memory via USB	
Body Mark		130 Types	
Image Process		Dynamic range: 30 -150 dB. 2B and 4B Mode	Partial relative gain, partial control 8 Adjustable Segments (TGC).
Image Accuracy Parameters		Comprehensive packages of measures for different Image modes (B-Mode, M-Mode, PW, CW) and different specialties such as : Pure Gynecology , Obstetrics, Small Parts , Urology, Musculoskeletal,Vascular, Neonatology, Anesthesia and Emergency, Paediatrics, Traumatology and Rheumatology. Automatic generation of final reports and general reports .	
Display		Date, Time, Transducer Frequency, frame Type, Patient Name, Patient ID,Hospital Name, Measured Values , Body Marks, Annotations, Transducer Position, Full Image Editing.	
Others Ports and Perifericos		2 USB Ports S-Video VGA Output Remote Port	Foot Switch Port Network Port for Dicom 3.0 (Opcional) Lithium Battery: Continuos work for 60 minutes (opcional)
Standard Configuration		Main unit DUS-5000 Transducer Cable holder, power cord, ground wire, user manual, measurement package and calculation programs	
Dimensions and Weight		33 cm (L) x22 cm (W) x32 cm (H) Net Weight: 7.8 kg	
Power Supply		100V-240V – 50Hz/60Hz	
Environmental Conditions		Temperature: +5 °C ~ +40 °C RH (non-condensing) Relative humidity range: 25% ~ 80% RH Atmospheric pressure range: 860 hPa~1060 hPa	
Storage and Transportation Environment		Temperature: -20 °C ~ +55 °C Relative humidity range: 25% ~ 93% RH Atmospheric pressure range: 700 hPa~1060 hPa	
Transducers		Transducers	Frequency Range: 2 -16 MHz Depth 32.4 cm Angle180° degrees

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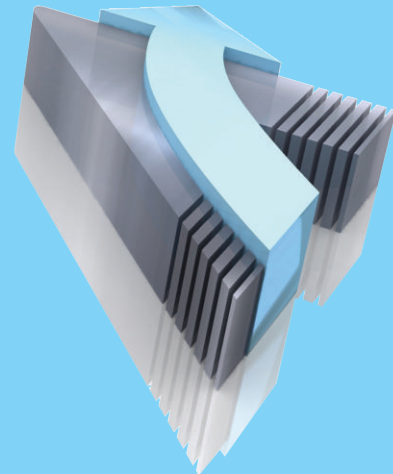
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