

# UltrasoundSystem

## DUS-5000



ULT

## Ultrasound System DUS 5000

Powerful Technologies to Be Your Portable Right Assistant

*The Advanced<sup>®</sup> 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.*



## Ultrasound System **DUS- 5000**

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



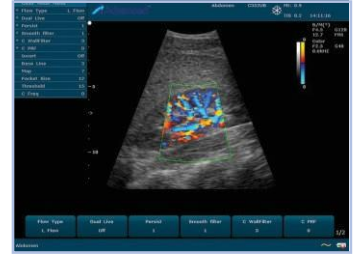
Hepatic Veins



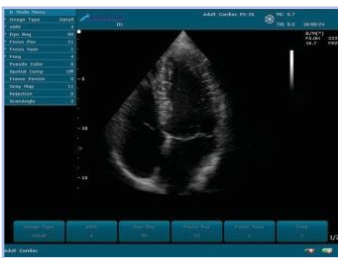
Hepatic Veins-2



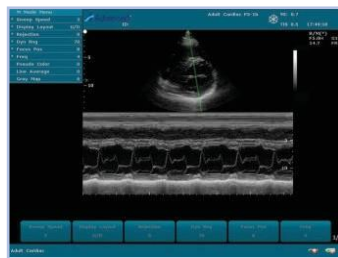
Pancreas



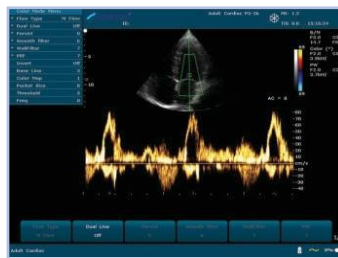
Renal Color Doppler



Adult Cardiac



Mitral M Mode



Mitral Valve Inflow  
PW Doppler



Parasternal Long Axis



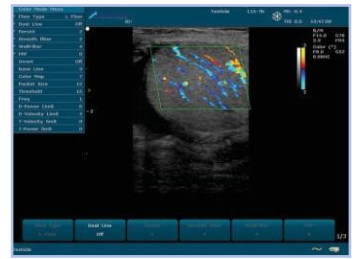
Baker's Cyst



Breast-2



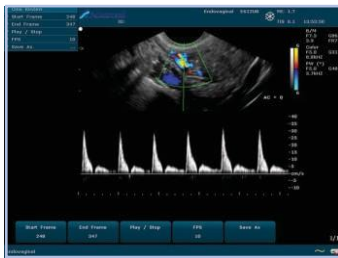
Cervical Lymph Nodes



Testicular Color Doppler



Color Doppler  
Umbilical Cord



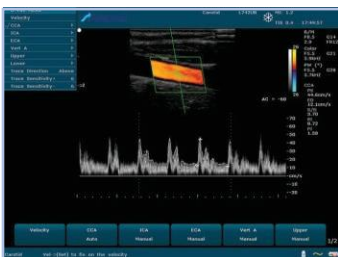
Uterine Artery Endovaginal



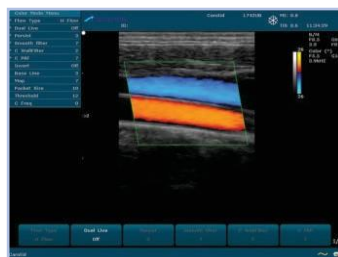
Endovaginal IUD



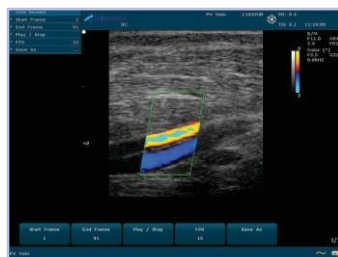
Fetal Aortic Arch



Carotid Auto Doppler



Carotid, Jugular





Color Doppler  
Lower Extremity






Popliteal Vein and Artery



### Transducer Convex Array

<b>AI C352UB</b>	<p>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</p>	
<b>AI C5-2b</b>	<p>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</p>	


### Transducer Micro-Convex

<b>AIC6152UB</b>	<p>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</p>	
<b>AI C422UB</b>	<p>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</p>	
<b>AI C612B</b>	<p>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</p>	


### Lineal Transducer

<b>AI L1042UB</b>	<p>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</p>	
<b>AI L742UB</b>	<p>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</p>	
<b>AI L552UB</b>	<p>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</p>	
<b>AI L15-7B</b>	<p>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</p>	

### Transvaginal transducer

<b>AI E612UB</b>	<p>Transvaginal transducer (128 elements) (Bandwidth 5.0~8.0 Mhz ) (Convex Radius10mm ) (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</p>	
------------------	---	---

### Phase Array Transducer

<b>AI P5-1UB</b>	<p>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</p>	
------------------	---	---

## Technical Specifications

<b>General</b>		
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- 16.00MHz Scanning Angle: from 30to 150degrees depending on transducer.	ScanningDepth (mm): from 20 a320 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.	
<b>Functions</b>		
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: 30-150dB. 2B and 4B Mode	Partial relative gain, partial control 8 Adjustable Segments (TGC).
Image Accuracy Parameters	Comprehensive packages of measures for diuerent Image modes (B-Mode, M-Mode, PW, CW) and diuerent 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	2USB Ports S-Video VGA Output Remote Port	Foot Switch Port Network Port for Dicom 3.0 (Opcional) Lithium Battery: Continuous 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	33cm(L) x22cm(W) x32cm(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 Angle 180º degrees

2018 Advanced Instrumentations Inc., is a U.S.A registered company – All rights reserved.

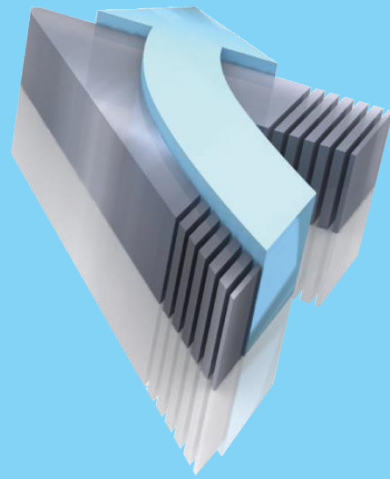
All functionality, features, specifications and other product information provided in this document including, but not limited to, the benefits, design, pricing, components, performance, availability, and capabilities of the product are subject to change without notice or obligation. Advanced Instrumentations reserves the right to make changes to this document and the product described herein, at any time, without obligation on Advanced Instrumentations to provide notification of such change. Actual description and specification of the product in this document may be different. Images shown here are for representational purpose only, actual may vary.

Advanced and Advanced Instrumentations trademarks and logos shown are property of Advanced Instrumentations Inc.

Advanced Instrumentations Inc.  
Success Through Quality,  
a Company You Can Trust

Advanced Instrumentations manufactures leading medical technology equipment in the areas of anesthesia, cardiology, operating room, gynecology and obstetrics, IV therapy, patient monitors, hospital furniture, neonatology and ultrasound. We deliver to the healthcare industry the highest-quality standards, reliability, and patient safety in all our products through effective, and rigorous testing procedures by our own department of Biomedical Engineering in the United States. All of our equipment comes with 2 years warranty and excellent post-sale support services.

Advanced Instrumentations Inc. Complies with the requirements of the ISO standards 9001: 2008 and 13485-2003 following the audit by one of the most prestigious global certification companies, as it is TÜV SÜD America. We comply with the requirements and are audited by the US Food and Drug Administration (FDA) an entity of the health and Human Services of the United States of America. These certifications are the result of dedication and commitment to excellence in our products and services.



6800 N.W. 77 Court,  
Miami, FL 33166  
U.S.A.  
Phone: 305-477-6331  
Fax: 305-477-5351

**Distributor:**



**DELTA PLUS (PVT) LTD.**  
H # 220, STREET # 13  
Khayaban-E-Kashmir  
G-15/4, Islamabad , Pakistan  
TEL:+92(51)2160155-6  
FAX: +92(51)2160157  
[info@deltapluspvt.com](mailto:info@deltapluspvt.com)  
URL: [www.deltapluspvt.com](http://www.deltapluspvt.com)