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

Utrasound Digital System
Outstanding performance in multiple applications

- Cardiology
- Gastroenterology
- Radiology
- Emergency
- Anesthesia
- Urology
- Vascular
- MSK
- Ob/Gyn
- Internal Medicine
- Abdomen
- Others

Advanced Instruments

Ultrasound
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

- **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). Frequency 4.0-16.0MHz/ 46mm) Biopsy Guide.
- **AI L752**: 256 elements Linear Array L752 (Vascular, Small parts, MSK, Breast). Frequency 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

### 3D/4D Imaging
- **Display Mode:** Dual Display
- **Screen:** 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

### 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**

### DICOM Display signal Physiologic
- **ECG, Pulse Wave**
- **ECG Gain:** Adjustable
- **ECG Position:** Adjustable
- **ECG Inverted:** On / Off

### User Interface Keyboard
- **Keyboard abbreviation integrated**
- **Recording keys for remote control peripherals**
- **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 (Cardiology)**
- **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**

### Scanning 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**

### 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**

### Flow Mode
- **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**

### 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**

### 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**

### Functions Report
- **Obstetrics Report**
- **Gynecology Report**
- **Cardiac Function**
- **Vascular 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-idential probe connectors, 1 pencil probe connector**
- **Weight: approx. 150kg**
- **5 probe holders**
- **19" monitor, anti-flickering with LED backlight can be vertically or horizontally swiveled. 13.3" Ergonomic second display touch screen**
Success Through Quality/Since 1988
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 SUD 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.

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