

# Ultrasound System DUS - 7000





# Ultrasound Digital System

## New cutting-edge 4D digital imaging technology

The DUS - 7000 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.







## 3D, 4D Volumetric, S-Live DUS -7000

18.5" High definition LCD color display with articulated arm  
8" Ergonomic second display touch screen

Four active transducer ports  
Digital front-end technology  
Multi-beam forming technology  
Compound imaging  
Fully Adjustable and rotating control panel

$\mu$ -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  
ECG Module  
 $\mu$ -scan

5-band adjustable frequency in B mode  
LGC (2-band)  
Tissue characteristic index  
Modes: THI, PIH, Color, PDI, DPDI, PW, Simult, Steer M, Color M, TDI, CW, B  
Dual beams  
Image rotation function  
Compound imaging  
Trapezoidal imaging  
Capacity of Image and film  
HPRF Support  
Biopsy enhanced  
Stress Echo (optional)  
Measurement package: Basic, Obstetrics, Gynecology, Cardiology, Abdomen, Vascular, Urology, Small parts, Pediatrics, Myocardial performance index  
PW auto trace  
IMT measurement  
A wide range of transducers is available  
DICOM: transmission, worklist, MPPS, C-store, Q/R  
Power Supply: AC 100~240 Volts 50/60 Hz.  
Meets FDA 510(k) requirements.  
2 years warranty.



# DUS 7000

**Ultrasound Digital System**  
Outstanding performance  
in multiple applications

Cardiology

Gastroenterology

Radiology

Emergency

Anesthesia

Urology

Vascular

MSK

Ob/Gyn

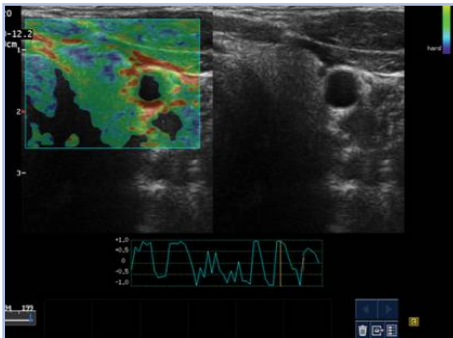
Internal  
Medicine

Abdomen

Others



## Ultrasound images



Elastography



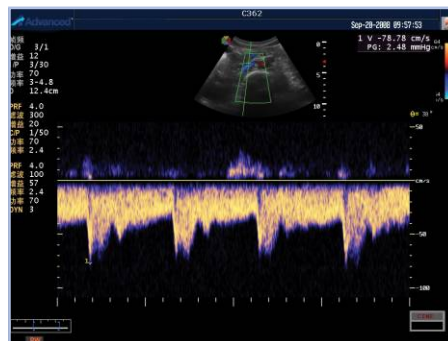
Trapezoidal Image



Panoramic View with Color



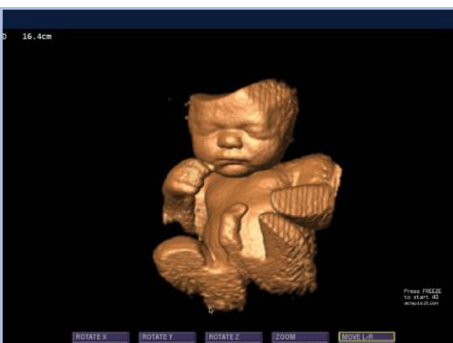
Fetus



Umbilical Artery



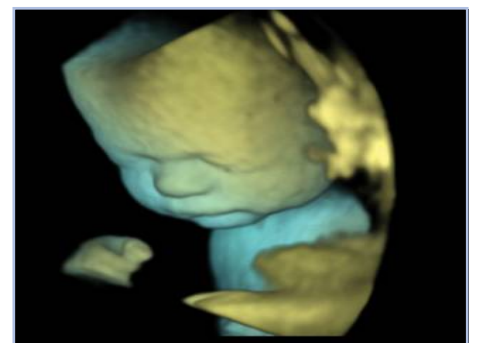
Kidney Power Flow



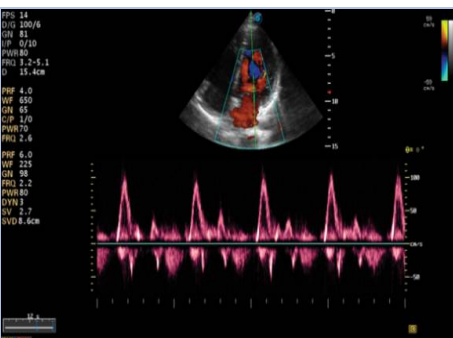
3D/4D



4D S-Live



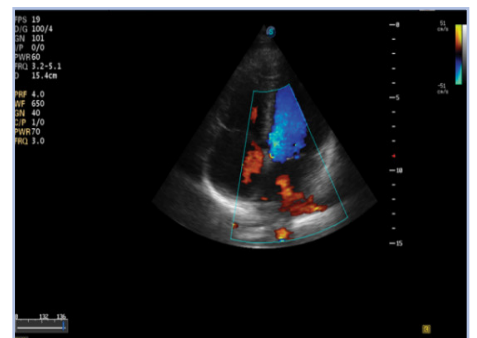
4D S-Depth



Aorta Spectral




Vascular




TDI

## Convex Transducer


Gain 0-255

AI C322	72 Elements Micro-Convex Array C322 (Abdominal Biopsy). Frequency 2.0-7.0MHz/ R20mm. Biopsy Guide.	
AI C344	128 Elements Convex Array C344 (Abdominal, Obstetrics, Gynecology), 2.0-7.0MHz/ R40mm.	
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 C613	128 elements Micro-Convex Array C613 (Cardiology, Pediatrics), 4.0-13.0MHz/ R14mm.	
AI VC6-2	Volumetric convex array VC6-2 (Obstetrics, Abdominal, Gynecology), 2.0-7.0MHz/ R40mm. (4D)	


## Linear Transducer

AI L741	128 elements Linear Array L741 (Vascular, Small Parts, MSK, Breast) Frequency 4.0-16.0MHz/ 46mm). Biopsy Guide.	
AI L742	192 elements Linear Array L742 (Vascular, Small parts, MSK, Breast) Frequency 4.0-16.0MHz/ 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 2P1	64 elements phased array 2P1 (Adult Cardiac, Transcranial) Frequency 1.0-6.0MHz	
AI 5P1	64 elements phased array 5P1 (Cardiac, Transcranial, Pediatric), Frequency 3.0-9.0MHz	
AI PWD 2.0	PWD 2.0 (Cardiac, Transcranial), 2.0-3.0MHz	
AI CWD 2.0	CWD 2.0 (Cardiac, Transcranial), 2.0-3.0MHz	
AI CWD 5.0	CWD 5.0 (Cardiac, Transcranial), 3.3-5.1MHz.	

## 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.	
AI BCC9-5	128/128 elements biplane BCC9-5 (Urology), 3.0-15.0MHz/ 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 Investment: 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 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 4 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		Cardiac Measurements B - Mode M - Mode Pulse - Wave Mode Vascular Measurements Urologic Measurements Small Parts Measurements Orthopedic 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 Investment 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 Acoustic fabric: 400-1700 LGC: adjustable gain in the left / right side on and off ( linear array probe ) : trapezoidal image 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 ) Investment: 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 / address energy: 10 selectable types by Color Doppler , and 4 types selectable by Doppler Tissue Color Adjustment baseline : $\pm 15$ levels Persistence: 0-80 (depending on the probe) Rejection B: 0-255 adjustable Linear deviation angle : 0, $\pm 16$ , $\pm 20$ 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	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 Screen Format: H1/2,H1/4,V1/3,V1/2,V2/3,O1/4
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 20 KHz - CW 1-48 KHz Maximum Speed Range: PW 0.0004-40.9 m / s - CW 0.0013-49.1 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. $\pm 20$ Degrees, 0, $\pm 16$ / $\pm 20$ 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 : USB Drive	
Physical Specifications	685mm (L) x 520mm (W) x 1311mm (H) 4-identical probe connectors, 1 pencil probe connector 18.5" monitor, anti-flickering with LED backlight can be vertically or horizontally swiveled.	Weight: approx. 56kg 5 probe holders



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.

## Success Through Quality/Since 1988

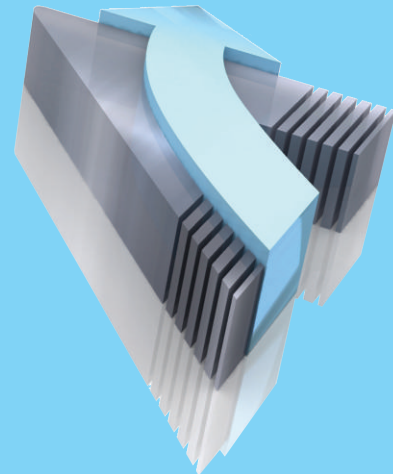
Advanced Instrumentations Inc.  
Success Through Quality,  
a Company You Can Trust

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 13485:2016 following the audit by one of most prestigious global certification companies as it is SGS. 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



For additional information visit us at:  
[www.advanced-inst.com](http://www.advanced-inst.com)