

# digital ULTRASOUND

## DUS-3000

### Digital Ultrasonic Diagnostic Imaging System

Complete images solutions and economic price make Advanced's DUS-3000 meet challenges in today's ultrasound market. With its full digital technology and high performance transducers, Advanced's DUS-3000 provides the elegant images quality as an ideal portable working station. It will meet your daily diagnostic requirements, without any compromise in image quality, and at an economic price.



# DUS 3000

## Digital Ultrasonic Diagnostic Imaging System

### Technical Specifications

#### General:

Imaging mode: B,B+B,4B, B+M,M  
Gray scales: 256  
Display: 10" non-interfaced  
Transducer frequency: 2.0 ~ 10MHz  
Transducer connector: 1 (standard) 2 (optional)  
Beam-forming: Digital Beam-forming  
Dynamic Receiving Focusing  
Real-time Dynamic Aperture  
Dynamic Frequency Scanning  
Dynamic Apodization  
Tissue Harmonic Imaging  
Tissue Specific Imaging  
Scanning angle: from 30 to 155 degree (depending on transducers)  
Scanning depth (mm): from 20 to 250 (depending on transducers)

#### Imaging Processing:

Pre-processing: Dynamic range  
Edge enhancement  
Frame correlation  
Line correlation  
Smooth  
AGC  
4-segment TGC adjustment  
IP (Image Process)

#### Post-processing:

Gray map  
Gamma correction  
Rejection  
Left-right reverse  
Up-down reverse

#### Functions:

Cine loop: 128 frames bidirectional cine-loop  
Zoom: X1.0, X1.2, X1.4, X1.6, X2.0, X2.4, X3.0, X4.0 in distance  
Storage media: Built-in Flash, External USB-Memory stick  
Storage: 56MB permanent image  
Body mark: > 80 types  
Transducer auto-detection  
16-segment acoustic power output adjustment

#### Measurement & Calculation:

B-mode: distance, circumference, area, volume, angle, ratio, %stenosis  
M-mode: distance, time, velocity, heart rate (2 cycles), slope  
Software packages: abdomen, gynecology, obstetrics, urology, small parts, cardiology, orthopedics



Trolley

### Multi-frequency transducers



#### Display:

Date, Time, Probe Name, Probe Frequency, Frame Rate, Patient Name, Patient ID, Hospital Name, Measurement Values, Body Marks, Annotation, Probe Position, Full-image-region edit

#### Others:

Peripheral port: Video output 1  
VGA output port 1  
USB port 2  
DICOM3.0 1 (optional)  
Power supply: 100V-240V ~ 50Hz/60Hz  
Dimensions: 353mm(W) X 315mm(L) X 253mm(H)  
Net weight: 11.5 kg

#### Standard Configurations:

DUS 3000 main unit  
10" non-interfaced monitor  
One transducer connector  
128 frames cine loop memory  
56MB built-in image storage  
Two USB ports  
Measurement & calculation software packages  
Convex array transducer: C361-1 (2.0/3.0/4.0/5.0/6.0MHz)  
One cable holder

#### Options:

Linear array transducer: L741 (6.0/7.0/8.0/9.0/10.0MHz)  
Endorectal transducer: E741 (6.0/7.0/8.0/9.0/10.0MHz)  
Endovaginal transducer: E611-1 (4.5/5.5/6.5/7.5/8.5MHz)  
Micro-convex array transducer: C321-1 (2.0/3.0/4.0/5.0/6.0MHz)  
Convex array transducer: C341 (2.0/3.0/4.0/5.0/6.0MHz)

#### Two Transducer Connectors

Video printer  
Laser printer  
Biopsy guide  
DICOM3.0  
Footswitch  
Mobile trolley  
Hand carried bag



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