

AX18 & AX28

Diagnostic Ultrasound System



Ergonomic Touch Screen Control Panel



Ultra-portable Design



15" Display with 180° Open Angle

The Edan Acclarix AX3 & AX2 were created with a purpose in mind: to bring user-centric design innovations that enhance the user experience. With numerous advancements, these devices simplify day-to-day tasks in point-of-care settings, making them swift and instinctive. The outcome is a beautiful simplicity where the interface seamlessly blends form and function, enabling you to interact with it effortlessly.

Features:

- 3D Imaging
- Ultra-light and compact
- Superb detail resolution
- Customizable user interface
- Dual transducer design (AX28)
- Tissue Adaptive Imaging (TAI)
- Dual battery design for long usage (2+ hours)
- Dedicated presets and measurement packages
- JPG, PDF, AVI, and BMP file export
- Multiple data managing methods:
DICOM & Network



Imaging Modes: B mode, M mode, Color Doppler, PDI/DPDI, PW Doppler, CW Doppler, Needle Guide Visualization

Applications: Abdomen, Gynecology, Obstetrics, Fetal Echo, Cardiology, Small Parts, Urology, Vascular, Pediatric, Musculoskeletal

Included Accessories

- Rechargeable Lithium-Ion Battery (14.8V, 5000mAh) — **01.21.064143**
- AC-DC adapter — **21.21.064243**
- Power Cord (USA Standard) — **01.13.037122**
- Flash Disk (Netac, 4G, USB2.0 Protocol)
- Carrying Case
- Ultrasound Gel (250g)

Optional Accessories

- MT-808 Luxury Trolley — **MT-808**
- SONY UP-X898MD, S-Video/USB interface.
Black and white video graphic printer — **UP-X898MD**
- Sony UP-25MD, USB interface.
Color and video printer — **UP-D25MD**

Acclarix Series Probes



C5-1Q

APPLICATION: Abdomen, Fetal/Obstetrics, Urology, Gynecology, Musculoskeletal

TRANSDUCER: Convex, Crystal

BANDWIDTH (MHz): 1-7 (-20dB), 2-5 MHz (-6dB)



C5-2Q

APPLICATION: Abdomen, Fetal/Obstetrics, Urology, Gynecology, Musculoskeletal

TRANSDUCER: Convex

BANDWIDTH (MHz): 1-7 (-20dB), 2-5 (-6dB)



L12-5Q

APPLICATION: Small Parts, Peripheral Vascular, Musculoskeletal

TRANSDUCER: Linear

BANDWIDTH (MHz): 3-13 (-20dB), 5-12 (-6dB)



L12-7HQ

APPLICATION: Small Parts, Peripheral Vascular, Musculoskeletal

TRANSDUCER: Linear

BANDWIDTH (MHz): 5-19 (-20dB), 7-17 (-6dB)



L17-SQ

APPLICATION: Intra-operative, Musculoskeletal, Peripheral Vascular

TRANSDUCER: Linear

BANDWIDTH (MHz): 4-19 (-20dB), 7-17 (-6dB)



MC8-4Q

APPLICATION: Pediatric, Abdomen, Neonatal, MSK, Peripheral Vascular

TRANSDUCER: Micro-Convex

BANDWIDTH (MHz): 3-10 (-20dB), 4-8 (-6dB)



MC9-3TQ

APPLICATION: Pediatric, Abdomen, Neonatal, MSK, Peripheral Vascular

TRANSDUCER: Micro-Convex

BANDWIDTH (MHz): 2-11 (-20dB), 3-9 (-6dB)



P5-1Q

APPLICATION: Adult Cardiac, Abdomen, Pediatric Cardiac, Adult Cephalic

TRANSDUCER: Phased

BANDWIDTH (MHz): 1-5 (-20dB), 1-5 (-6dB)



P7-3Q

APPLICATION: Adult Cardiac, Pediatric, Abdomen, Pediatric Cardiac, Neonatal Cephalic

TRANSDUCER: Phased

BANDWIDTH (MHz): 2-8 (-20dB), 3-7 (-6dB)



P7-3Q

APPLICATION: Fetal/Obstetrics Abdomen, Gynecology, Urology

TRANSDUCER: Wobbler

BANDWIDTH (MHz): 1-7 (-20dB), 2-5 (-6dB)



E8-4Q

APPLICATION: Fetal/Obstetrics Gynecology, Trans-Vaginal, Trans-Rectal, Urology

TRANSDUCER: Intra-Cavity

BANDWIDTH (MHz): 3-12 (-20dB), 4-8 (-6dB)



E10-3BQ

APPLICATION: Fetal/Obstetrics Gynecology, Trans-Vaginal, Trans-Rectal, Urology

TRANSDUCER: Intra-Cavity

BANDWIDTH (MHz): 3-12 (-20dB), 3-10 (-6dB)



E10-3HQ

APPLICATION: Fetal/Obstetrics Gynecology, Trans-Vaginal, Trans-Rectal, Urology

TRANSDUCER: Intra-Cavity

BANDWIDTH (MHz): 3-12 (-20dB), 3-10 (-6dB)

Specifications

PHYSICAL SPECIFICATION

AX18: 375 mm×380 mm×58 mm
Weight: 4.2kg (not including battery, power adapter and transducers)

AX28: 375 mm×380 mm×64 mm
Weight: 4.2kg (without battery & any other accessory)

DISPLAY

15.6" high resolution LCD monitor
Resolution: 1920 x 1080
Open angle: 0° - 180°

Touch Screen:
10.1" Touch screen
Gesture-control
Virtual TGC sliders
Support QWERTY keyboard for text input
Brightness adjustable

POWER SUPPLY

TWSLB-003 Lithium Battery:

Capacity: 5000 mAh
Working Time (AX2):
1 hour: One fully charged battery
2 hours: Two fully charge batteries

Charging time (AX2):
~2.5 hours: One battery
~5 hours: Two batteries

TWSLB-018 Lithium Battery:

Capacity: 6800 mAh
Working Time (AX2/AX3):
1.5 hour: One fully charged battery
3 hours: Two fully charge batteries

Charging time (AX2/AX3):
~3.5 hours: One battery
~6.5 hours: Two batteries

AC POWER REQUIREMENTS

Voltage: 100~240 V
Frequency: 50Hz/60 Hz

SYSTEM ARCHITECTURE

Physical Channels: 64
Beam Forming: Quad beam
Processor: ARM
Memory: 2 GB
Hard Drive: 120G SSD
Operating System: Android
System Boot-up: About 30s
Boot-up from sleep: 5s
Shutdown: 3s

IMAGE FIELD

Mechanical Index (MI)
Thermal Index (TI)
Imaging parameters
Gray Scale bar
Depth Scale
Center Mark
Measured result window
TGC curve

NETWORK

Wired network connection
Wi-Fi connection

DICOM 3.0

Connectivity to DICOM server for storage of all static image with patient information
Manual-Transfer in background on demand
Transfer management UI for viewing transfer task status.

DICOM Modality Worklist:

Enables query of the patient worklist schedule from hospital information system to the ultrasound system via DICOM network connection.

Query of worklist on demand or on start of exam.

Populates with Patient Information screen with patient demographic information automatically when one patient is selected.

DISPLAY MODES (AX18)

B Mode: B, 2B
Color Mode: B/C(Single, Dual);
B+B/C(Dual Live);
B/C/PW (triplex mode)
PDI/DPDI Mode:
B/PDI(DPDI) (Single, Dual);
B+B/PDI(DPDI) (Dual Live);
B/PDI(DPDI)/PW (triplex mode)
PDI/DPDI Mode:
B/PDI(DPDI) (Single, Dual);
B+B/PDI(DPDI) (Dual Live);
B/PDI(DPDI)/PW (triplex mode)

PW Mode:
B/PW;(Update)
B/PW; (duplex, simultaneous)
B/C/PW(Update)
B/C/PW, B/PDI(DPDI)/PW;
(triplex mode)

CW Mode:
B/CW;
B/C/CW, B/PDI(DPDI)/CW;
M Mode: B/M (Display layout:
Up/down, Left/right)

DISPLAY MODES (AX28)

B Mode: B, 2B, 4B
Color Mode: B/C(Single, Dual);
B+B/C(Dual Live);
B/C/PW (triplex mode)
PDI/DPDI Mode:
B/PDI(DPDI) (Single, Dual);
B+B/PDI(DPDI) (Dual Live);
B/PDI(DPDI)/PW (triplex mode)

PW Mode:
B/PW;(Update)
B/PW; (duplex, simultaneous)
B/C/PW(Update)
B/C/PW, B/PDI(DPDI)/PW;
(triplex mode)

CW Mode:
B/CW;
B/C/CW, B/PDI(DPDI)/CW;

M Mode:
B/M (Display layout: Up/down,
Left/right)

TDI Mode:
B+ TVI (Dual Live)
B+ TVI + TEI (Dual Live)
B+ TVI + TVI (Update)
B+TVI + TVD ((triplex mode)
B+TVM
3D/4D: 3D Rendering, 3 Sectional Planes
Elastography:
E, B+E(Display layout: Up/down, Left/right, 1:1);

IMAGING PARAMETERS

B-mode (Live imaging)

Image Type:
Detail/General/Penetration
Auto: TGC, Gain
Digital Zoom: x0.8-x2.0, x0.5-x16.0 (Tender)
Display Depth: 1-45cm
Frequency:

1-17MHz,
1-19 MHz (Tender)
3 fundamental +
2 harmonic
5 fundamental +
5 harmonic (tender)

eSRI: Off, Low, Med, High
FOV: Small, Med, Large, Full
Steer: 0°±10°
Gain: 0-100dB, 0-260dB (tender)
TCG: 8 Segments
Dynamic Range:

40-96dB
20-320 dB (tender)

Line Density: Low, Med, High
Max. Frame Rate:
551/s, depends on transducer
Map: 11 Types, 20 Types (tender)
Persistence: Off, Low, Med, High
Focus Position:
Max. 16 positions, adjustable
Focus Number:

1-3, adjustable
1-4, adjustable

Colorize: On/Off
Tint: 5 Types, 20 Types (tender)
Spatial Compounding:
On, Off (max 3 angles)
Trapezoid: On/Off
Acoustic Power: 10%-100%

M-mode (Live imaging)

Sweep Speed:
Fast/High/Med/Low/Slow
Corresponds to sweep time
of 1s, 2s, 4s, 8s, and 12s per
screen respectively

Line Persist: Off, Low, Med, High
Map: 11 Types
Colorize: On/Off
Tint: 5 Types, 20 Types (tender)
Gain: 0-100dB, 0-260dB (tender)
Frequency:

1-17 MHz
1-19 MHz (tender)
3 fundamental+2 harmonic
5 fundamental+5 harmonic

Dynamic Range: 40-96 dB, 20-320 dB (tender)
Strip Size: Small, Med, Large, Full
Side-by-side: On (Left/Right), Off (Up/Down)
Acoustic Power: 10%-100%

Color/PDI/DPDI Mode

(Live imaging)

Image Type:
HighFlow/MidFlow/LowFlow
Frequency: 2 levels, 5 levels (tender)
Gain: 0-100dB
Line Density: Low, Med, High
Dynamic Range:
0-70 dB
Not available for Color mode

Max. Frame Rate:
257/s, depends on transducer
Persistence: Off, Low, Med, High
Smooth: Off, Low, Med, High
Wall Filter: Low, Med, High
Color Map: 8 Types, 20 Types (tender)
Steer Angle:

0°±10°, ±20° (L12-5Q)
0°±15°, ±30° (L12-5Q)
0°±5°, ±10° (L17, 7Q)
0°±10°, ±20° (L17-7HQ)

PRF: 0.6-11.4kHz
Baseline: 25 levels
(Not available for PDI mode)
Threshold: 0-100
Invert: On, Off
(Not available for PDI mode)
Acoustic Power: 10%-100%

PW-mode (Live imaging)

Image Type:
HighFlow/MidFlow/LowFlow
HPRF:

Automatic invocation to
maintain gate location/scale

Frequency: 2 levels, 5 levels (tender)
PRF: 0.9-14.7kHz
Gain: 0-100dB
Dynamic Range: 10-70 dB
Wall Filter: Low, Med, High
Sweep Speed:

Fast/High/Med/Low/Slow
Corresponds to sweep time
of 2s, 3s, 4s, 6s and 8s per
screen respectively

Baseline: 9 levels
Angle Correction: -80° to 80°
Quick Angle: -60°/0°/60°
Steer:

0°±10°, ±20° (L12-5Q)
0°±5°, ±10° (L17-7Q)
0°±10°, ±20° (L17-7HQ)

Volume: 0-99
Map: 11 Types
Colorize: On/Off
Tint: 5 Types, 20 Types (tender)
Gate Size: 0.5-20 mm
Strip Size: Small, Med, Large, Full
Acoustic Power: 10% - 100%

CW-mode (Live imaging)

Image Type:
HighFlow/MidFlow/LowFlow
PRF: 1-100 kHz
Gain: 0-100 kHz
Dynamic Range: 10-70 dB
Wall Filter: Low, Med, High
Speed Sweep:

Fast/High/Med/Low/Slow
Corresponds to sweep
time of 2s, 3s, 4s, 6s and 8s
perscreen respectively

Baseline: 9 levels
Angle Correction: -80° to 80°
Quick Angle: -60°/0°/60°

Volume: 0-99
Map: 11 Types
Colorize: On/Off
Tint: 5 Types, 20 Types (tender)
Gate Size: 0.5-20 mm
Strip Size: Small, Med, Large, Full
Acoustic Power: 10% - 100%