

ECO 5

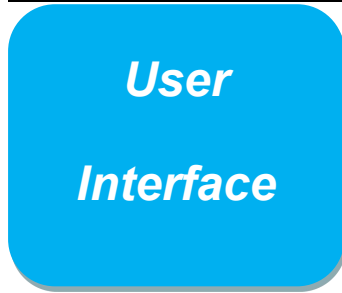
**General
Information**

Dimensions and Weight

- Dimensions of main unit (approx.):
335 mm (Length) * 155 mm (Width) * 350 mm (Height)
- Net weight of main unit (approx): 6.5 kg (no probe included)

Electrical Power

- Adapter Power supply voltage: AC100-240V 50/60Hz
- Main system power input: 19V 3.16A
- Battery type:BT-2500 Li-ion 14.8V 4400mAh



Operation Keyboard

- Fold-up Control Panel and Alphanumeric Keyboard
- Back-lit Keyboard for Good Visibility in Dark Room
- Interactive Back-Lighting
- Indicator Lights Identify Activated Keys
- 8 TGC Slides for Easy Adjustment
- Short Cut knob for Quick Adjustment
- Neat & Clear Keyboard Layout, Doctor Can Remember Easily
- Print Directly from the Keyboard

Display Screen

- High resolution color LED
 - Diagonal dimension: 12 inch
 - Resolution: 1024X768
 - Angle adjustable: 0-30°

System Overview

Applications

- Abdomen
- Cardiology
- Obstetrics
- Gynecology
- Urology
- Vascular
- Small Parts
- Pediatrics
- MSK
- Nerve

Scanning Method

- Electronic convex
- Electronic linear
- Electronic micro-convex

Transducer Types

- C3-A convex probe, center frequency 3.5MHz
- V6 -A micro-convex probe, center frequency 6.5MHz
- L7M -A linear probe, center frequency 7.5MHz
- MC3-A micro-convex probe, center frequency 3.5MHz
- L7S-A linear probe, center frequency 9.0MHz
- R7-A rectal probe, center frequency 7.5MHz
- MC6-A micro-convex probe, center frequency 6.5MHz

Image Modes

- B mode
- M mode
- CFM mode
- PW mode

Display Mode

- Quad/dual display (for B mode)
- Duplex mode: B+CFM, B+PW, B+CFM+PW, B/M

Display Annotation

- Institution/Hospital name
- Date/Time
- Patient Name and Patient ID
- System status (real-time or frozen)
- Gray bar
- Cine guide
- Scanning direction
- Measurement summary window
- Measurement results window
- Probe type
- Application name
- Menu indication
- Imaging parameters displayed on the screen

Standard Configuration

- High resolution 12 Inch LED display
- 2 active probe port
- 8G high speed memory (320G optional)
- USB ports : left side 2, back 1
- Ethernet port
- video out port
- VGA port
- Footswitch port
- General measurement package

- Clinical measurement package
- Multi-language screen display
- EASYVIEW™: image archive system
- Patient information management system
- Building reporting system
- Intelligent Zoom
- Multiple Compound Imaging (MCI)
- Speckle Reduction Imaging(SRA)
- i-image
- BT-2500 li-ion battery

Software Options

- DICOM 3.0
- Full screen show

Hardware Options

- C3-A convex probe, center frequency 3.5MHz
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- MC3-A micro-convex probe, center frequency 3.5MHz
- L7S-A linear probe, center frequency 9.0MHz
- R7-A rectal probe, center frequency 7.5MHz
- MC6-A micro-convex probe, center frequency 6.5MHz
- Biopsy guide for C3-A, L7M-A, V6-A
- Carry bag BG-100
- Trolley TR-9000

Peripherals

- Video printer: Mitsubishi P93W; Sony UP-897MD, Sony UP-D711MD
- PC printer : HP LaserJet P1102,HP LaserJet 200 Color M251n , HP LaserJet P2055d

Imaging
Processing and
Presentation

B Mode

- Acoustic power (16 steps)
- Gain (0~255)
- TGC (8 segments)
- Frequency(depend on the probe types)
- Depth (3.7~23.6cm, depend on the probe types)
- Focus number (1~4, depend on the probe types)
- Focus position (depend on the probe types)
- Scan width (14%~100%)
- Density (Low ,High)
- Dynamic (30~90dB)
- Smooth (0~7)
- Edge enhancement (0~7)
- Compound (On, Off)
- SRA (On, Off)
- MB (On, Off)
- 2D map 5 types
- Gama(0-8)
- B rejection(0-256)
- Invert (left/right, up/down)
- Zoom coef(8 steps)
- Chroma(0-39)

M Mode

- Sweep speed (4 steps)

Cineloop

- Support 2D, M, PW, CFM

- Cineloop auto/manual
- Capacity:256 frames

Storage

- 8G high speed memory(320G optional)
- USB ports
- Still images storage format: image and jpg
- Cine loops storage format: Cine (256frames/8s)

EASYVIEW™

- Image review Layout: 1X1; 2×2; 4×4;
- Image management
 - Delete selected image
 - Export selected image
 - Recall selected image
 - Collapse all
 - Send selected image by DICOM
 - Multi Select

**Measurement
&
Calculation**

General Measurement Package

- Software packages for various specific clinical use
- Comprehensive analysis methods
- Clinical analysis reports
- **General measurement package**
- General B mode measurement
 - Distance
 - CIR/Area (Ellipse)
 - CIR/Area (Trace)
 - Volume(1Distance)
 - Volume(1Ellipse)
 - Volume (2Distance)
 - Volume (3Distance)
 - Volume(1Distance1Ellipse)
 - Ratio(distance/ellipse area/trace area)
 - Angle
 - Histogram(rectangular/ellipse/trace)
 - profile
- General M mode measurement
 - M distance
 - M Time
 - Velocity
 - Heart_Rate

Clinical Analysis Packages

- Obstetrics
 - Distance
 - FetalBiometry
 - GS (Gestational Sac Diameter)
 - CRL (Crown Rump Length)

YS

BPD (Biparietal Diameter)

OFD (Occipitofrontal Diameter)

HC-Ellipse (Head Circumference)

APD

TAD (Transverse Abdominal Diameter)

AC-Ellipse (Abdominal Circumference)

FTA

FL (Femur Length)

SL

APTD (Anteroposterior Trunk Diameter)

TTD (Transverse Trunk Diameter)

THC

-Fetal Long Bones

Humerus (Humerus Length)

ULNA

Tibia (Tibia Length)

RAD

FIB

CLAV

-Fetal Cranium

CER (Cerebellum)

CM

NF

NT

OOD

IOD

NB

Lvent

HW

-OB Others

LtKid

RtKid

LtRenalAP

RtRenalAP

LVWrHEM

MAD

-AFI

-FBP

EFBW(Estimated Fetal Birth Weight)

AFI(Amniotic Fluid Index)

EDD(Expected date of delivery)

Growth curve

- GYN

- Distance

- UT__D

- UT-L

- UT-W

- UT-H

- CX-L

- Cervix Volume

- Length

- Width

- Height

- ENDO (Endometrium)

- ovary

- Urology

- kidney

- Volume(left)

- Volume(right)

- Bladder

- Volume(L*W*H)

- Volume(biplane)

- Prostate

- Residual Volume

- Abdomen

- Distance

- CBD

- GB wall
- Liver length
- Prox Aorta
- Mid Aorta
- Distal Aorta
- Spleen
- Renal Volume
- iliac

- Cardiac B mode
 - SinglePlane
 - BiPlane
 - bullet__Volume
 - Modi__Simpson

- Cardiac M mode
 - Distance
 - Heart rate(one circle, two circle)
 - LV function
 - IVSd
 - LVIDd
 - LVIDs
 - LVPWd
 - IVSs
 - LVPWs
 - Mitral valve
 - EF speed
 - AC speed
 - A/E
 - QMV
 - Aorta Valve
 - LAD/AOD
 - AVSV

- Vascular
 - Distance
 - Perimeter/Area
 - Volume
 - Ratio
 - %Stenosis

-Angle

- Small Part

- Thyroid

- Angle

- Ratio

- Orthopedic

- Hip Angle

- Pediatrics

- Hip Angle

System Setup

By using system Setup, users could

- Customize hospital information
- Customize date-time and regional
- Customize language
- Customize screen saving type
- Customize comment library
- Customize measurement formula
- Customize exam mode configuration
- Customize output types

Multi-language

- English
- Chinese
- Czech
- Italian
- Russian
- Turkish
- French
- German
- Spanish








Operation System

Windows Linux Embedded

Transducers

Transducer Selection

- Two transducer ports

Probe Name	Outlook	Probe Type	Main Frequency	Frequency Range(MHz)	Application
C3-A		Convex R=60mm	3.5MHz	2.5 3.5 4.5 5.0	ABD,OB/GYN,URO
V6-A		Micro convex R=12mm	6.5MHz	4.5 5.0 6.5 8.0	OB/GYN,URO
L7M-A		Linear L=40mm	7.5MHz	5.3 6.5 7.5 10.0	Vessel, Small Parts, MSK/PT, Nerve
L7S-A		Linear L=30mm	9.0MHz	5.3 6.5 9.0 11.0	Vessel, Small Parts, MSK, PT, Nerve
MC3-A		Micro-Convex R=20	3.5MHz	2.5 3.5 4.5 5.0	Cardiac
MC6-A		Micro Convex R=15	6.5MHz	4.5 5.0 6.5 8.0	ABD, Neonatal(Pediatrics)
R7-A		linear L=40mm	7.5MHz	5.0 6.5 7.5 10.0	URO

*Inputs
&
Outputs*

- video: 1
- VGA: 1
- USB port: 3
- Ethernet: 1
- Remote Port 1
- Footswitch port 1
- System power in: 1
- Power button: 1

Operating Conditions

- Temperature: 10° C ~ 40° C
- Relative Humidity: 30%~75%, non-condensing
- Atmosphere Pressure: 700hPa ~ 1060hPa

Storage Conditions

- Temperature: -25° C ~ 55° C
- Relative Humidity: ≤ 95% non-condensing
- Atmosphere Pressure: 700hPa ~ 1060hPa



- ISO 10993 Biological evaluation of medical devices

Design Standards

- IEC 60601-1 Electrical medical equipment
- IEC 60601-1-1 Electrical medical equipment
- IEC 60601-1-2 Electromagnetic compatibility
- IEC 60601-1-4 Programmable medical systems
- IEC 60601-2-37 Comply with the IEC60601-2-37

Not all features or specifications described in this document may be available in all probes and/or modes.

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