

Console Design

- ♦ Humanized appearance
- ♦ Backlit keyboard, 8 TGC
- ♦ Two active probe connectors
- ♦ Two probe holders
- ♦ 12-inch LCD monitor

Transducer Types

- ♦ Electronic convex probe
- ♦ Electronic microconvex probe
- ♦ Electronic linear probe
- ♦ Electronic transvaginal probe
- ♦ Electronic transrectal probe
- ♦ Electronic volume probe

Port

- ♦ Video out port
- ♦ S-Video out port
- ♦ VGA out port
- ♦ 2 USB ports
- ♦ RJ-45 NIC port
- ♦ Printer control port
- ♦ AC power input port
- ♦ HDMI digital port

Display Modes

- ♦ B, 2B, 4B mode
- ♦ M, B/M mode
- ♦ Pulse Wave Doppler
- ♦ B+PW mode
- ♦ B+CPA, B+DPA mode
- ♦ B+C+PW mode
- ♦ Tissue Harmonic Imaging
- ♦ Trapezoidal Imaging
- ♦ Anatomical M mode (Option)
- ♦ Compound Imaging (Option)
- ♦ Panoramic Imaging (Option in future)
- ♦ Elastography (Option)
- ♦ 3D imaging (Option)
- ♦ 4D imaging (Option)



Focusing:

Continuous dynamic focusing

- ♦ Dynamic apodization
- ♦ Dynamic aperture
- ♦ 1~8 selectable transmit focus
- ♦ Acoustic lens focus

Zooming

- ♦ Realtime zooming
 - 4 steps: X1.5, X2.0, X3.0, X4.0
- ♦ Selectable zooming position
- ♦ 4D zooming
 - 3 steps: X1.0, X1.25, X1.625
- ♦ PIP zoom in real-time and freeze
- ♦ (picture in picture)

Memory

- ♦ Cine-Memory
 - B-mode (max. 2000 frames)
 - M-mode (max. 40 minutes)
- ♦ Hard disk 160GB

2D Mode Imaging Processing

- ♦ 8-step TGC slidepots
- ♦ Gain control (0~100)
- ♦ Dynamic range adjustable: 30-180db
- ♦ Edge enhancement (0~3)
- ♦ Persistence (0~7)

- ♦ Chroma (0~7)
- ♦ Maps (0~23)
- ♦ Grayscale
- ♦ Acoustic output power (-17~0dB, 0~100%)
- ♦ Adjustable depth, angle and width
- ♦ Image Orientation
 - Left / right
 - Up / down

M-mode Imaging Processing

- ♦ Gain (0~100)
- ♦ Sweep Speed (10S, 5S, 2.5S, 1.25S)
- ♦ Maps (0~23 steps)
- ♦ Chroma (0~7)

Color Flow Doppler Imaging Processing

- ♦ Gain control (0~100)
- ♦ Pulse repetition frequency (0.25KHz~6.0KHz)
- ♦ Wall filter (1~50 steps)
- ♦ Median Filter (0~3)
- ♦ Maps (0~7)
- ♦ Smooth (-3~3)
- ♦ Color persistence (0~7)

PW/CW Doppler mode Imaging Processing

- ♦ Sample volume angle correction (-80°~80°)
- ♦ Doppler Gain (0~100)
- ♦ Wall filter (1~50 steps)
- ♦ Sample volume (1mm~10mm)
- ♦ Spectrum smoothing (0~3)
- ♦ Auto-trace
- ♦ Auto-calculation
- ♦ Scale
- ♦ Basic line shift (16 steps)
- ♦ Sweep speed (3 steps)
- ♦ Volume (0~100%)
- ♦ Pulse repetition frequency (1.0KHz~12.0KHz)
- ♦ Measurable speed range (1mm/s~7.6m/s)

Display Items

- ♦ User-definable annotations
- ♦ Display parameters related to diagnosis
 - Hospital name: ≥24 characters
 - Patient name: 40 characters
 - Patient ID: 50 characters

- Date: 3 formats selectable
DD-MM-YYYY
MM, DD, YYYY
YYYY/MM/DD
- Time: 12/24 hours mode
- Exam type
- Active probe type
- Probe orientation
- ♦ Display parameters related to imaging
 - Depth
 - Frame rate
 - Probe operating frequency
 - TGC curve
 - Depth scale (30cm depended on probes)
 - Gain control
 - Persistence
 - Grayscale transform
 - Dynamic range
 - Edge enhancement
 - Acoustic output, power
 - Local zoom
 - Mechanical index (MI)
 - Thermal index (TI)

Image and Patient Data Storage

- ♦ Hard disk
- ♦ USB memory stick
- ♦ Record devices:
 - B/W or color Video printer (Option)
 - Laserjet or inkjet printer (Option)

Measurements & Calculations

B-mode

- ♦ Distance
- ♦ Circumference
- ♦ Area (Ellipse, trace)
- ♦ Volume
- ♦ Angle
- ♦ A/R Reduction

M-mode

- ♦ Distance
- ♦ Time
- ♦ Slope
- ♦ Heart Rate
- ♦ LV calculation formula
 - Teichholz

PW-mode

- ♦ Velocity
- ♦ Average velocity
- ♦ Acceleration
- ♦ Resistive Index (RI)
- ♦ Pulsatility Index (PI)
- ♦ S/D (Systolic/Diastolic)
- ♦ A:B (velocity ratio)
- ♦ HR
- ♦ Auto-trace

Applications

- ♦ Abdomen
- ♦ Urology
- ♦ Obstetrics
- ♦ Gynecology
- ♦ Small parts
- ♦ Vascular
- ♦ Cardiology
- ♦ Neonatology
- ♦ Orthopedics

Measurements

- ♦ Abdomen
- ♦ Obstetrics
- ♦ Small parts
- ♦ Urology
- ♦ Orthopedics
- ♦ Cardiology
- ♦ Peripheral vascular

Operation Conditions

- ♦ Ambient temperature: 0°C to +40°C
- ♦ Relative humidity: 30% to 85%
- ♦ Atmospheric Pressure: 70kPa to 106kPa

Software, Accessories & Probes**Standard Accessories**

- ♦ Power Cable
- ♦ Potential equalization conductor
- ♦ Printer control cable
- ♦ S-Video cable
- ♦ Fuse
- ♦ Operation Manual
- ♦ Dust-proof cover

Optional Accessories and Software

- ♦ B/W or color Video printer
- ♦ Laserjet or inkjet printer
- ♦ Biopsy guide for convex or linear probe
- ♦ Biopsy guide for transvaginal or transrectal probe
- ♦ DICOM 3.0 software
- ♦ BNC cable
- ♦ Foot switch (JT-2)

Physical Features**Dimension**

- ♦ 325mm(H) X 310mm(W) X 215mm(D)

Weight

- ♦ Approximately 8kg

Power Requirements

- ♦ Voltage: AC 100V to 240V
- ♦ Frequency: 50 / 60Hz
- ♦ Rated Power: 250VA

Probes

Model name	Applications	Transmit frequency (MHz)	Max. depth	Band width	View field	Array radius	Biopsy guide
<Convex probe>							
<u>C3L60K</u>	Abdomen Gynecology Obstetrics Urology	2.0/2.5/3.3/4.2/5.0	25.2cm	≥60%	70°	R60	Available
C3L40K *	Abdomen Gynecology Obstetric Urology	2.0/2.5/3.3/4.2/5.0	24cm	≥60%	85°	R40	Available
C3I20K *	Cardiology Pediatrics Abdomen	2.0/2.5/3.3/4.2/5.0	25.2cm	≥60%	110°	R20	Invalid
C5I20K *	Cardiology Pediatrics Abdomen	4.0/4.7/5.5/6.2/7.0	14cm	≥60%	110°	R20	Invalid
<Volume probe>							
4DL40K *	Obstetrics	4.0/4.7/5.5/6.2/7.0	25.2cm	≥60%	68°	R40	Invalid
<Linear probe>							
<u>L8L38K</u>	Small Part Peri.Arteries Carotid Orthopaedics Podiatry	5.0/6.6/7.5/10.0/12.0.	9cm	≥60%	38mm		Available
<u>L8L50K</u> *	Small Part Peri.Arteries Carotid Orthopaedics Podiatry	5.0/6.6/7.5/10.0/12.0	9cm	≥60%	50mm		Available
L10L25K *	Small Part Peri. Arteries Orthopaedics	8.0/9.0/10.0/11.0/12.0	6cm	≥55%	26mm		Available
<Transvaginal probe>							
<u>V6L11K</u> *	Gynecology 1 Trimester Urology	4.0/5.0/6.0/7.0/9.0	12cm	≥55%	157°	R11	Available
<Transrectal probe>							
U5L50K *	Urology	4.0/4.7/5.5/6.2/7.0	9cm	≥60%	50mm		Available

Notes:

- a) Probes with ‘ * ’ are optional parts.
- b) Probes with ‘ ____ ’ have CE mark.
- c) Specifications and appearance are subject to be changed.