



Forever Medical

## Technical Specifications of YJ-C60 color doppler

### System Overview

#### Application

Abdomen / Obstetrics / Gynecology /  
Urology / Andrology / Small Parts / Vascular /  
Pediatrics / Musculoskeletal

#### Electrical Power

Voltage: 100 V~240 V  
Power: DC12.8V 3A  
Frequency: 50/60 Hz

#### Physical Specifications

Equipment size: 375mm×360mm×75mm  
Equipment weight: 6.7kg  
Packing size: 610mm×310mm×500mm  
Packing weight: 18kg



#### Conditions

Operating

Temperature: 5°C~40°C

Humidity: ≤80%

Pressure: 700hPa~1060hPa

Storage

Temperature: -5°C~40°C

Humidity: ≤80%

Pressure: 500hPa~1060hPa

#### Connectivity/Media/Peripherals

Transducer Ports: 1

USB Ports: 2

Hard Disc: 60GB (SSD)

120G/256GB SSD (Optional)

Footswitch: USB

Ethernet Port: 2(100Mb/1000Mb)

External Display: VGA

HDMI

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USB Printer  
Digital Laser Printer  
Digital B/W Thermal Printer

**Cine/Image Memory**

Cine Memory: 1200 frame  
Cine Review Speed: 1-5  
Cine Review Loop  
Cine Capture Function

**DICOM Connectivity**

DICOM3.0 Compliant

**Image Storage**

Storage Format:  
PNG, AVI, BMP, JPEG, DICOM  
Export Video Format: AVI  
Export Image Format:  
PNG, JPEG, BMP, DICOM  
USB Flash Drive

**Technology**

Panoramic Imaging Tech  
All-digital signal processing Tech  
Multibeam formation Tech  
Speckle Reduction Tech  
Tissue Harmonic Imaging Tech  
Dynamic Tissue Optimization Tech  
Duplex & Triplex Synchronous Display  
Directional Power Doppler  
Imaging Parameters Preset

**General Performance**

Digital Broadband: 12288 channels  
Beam-former: Re-programmable  
Transmit Voltage: Adjustable (15 steps)  
Beam-former Frequency Range: 1~40 MHz

**Pan/Zoom**

Real-Time Image Zoom  
Zoom Range: 100%~400%

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Up/Down/Left/Right Inversion

## Hardware Specification

### **LCD Monitor**

Size (Diagonal): 15"  
Contrast Ratio: 800:1  
Resolution: 1024×768 pixels  
Brightness: 230 cd/m<sup>2</sup>  
Color Depth: 24bit  
Rotate Angle: ± 90°  
Grey Levels: 256

### **Embedded Speakers**

Impedance: 4Ω  
Power: 5 W

### **UPS (Optional)**

### **Imaging Performance**

Startup Time (Max):  
Avg. < 90 seconds  
Preset Switching Time:  
Avg. < 1 second  
Storage Time (Image to Disk):  
Avg. < 0.5 second

### **Transducers**

#### **Convex Probe**

Frequency: Central 3.5 MHz  
Min. 2.0 MHz  
Max. 10.0 MHz  
Pitch: 0.516 mm  
Radius: 60 mm  
Number of Elements: 96

#### **Linear Probe:**

Frequency: Central 7.5 MHz  
Min. 2.0 MHz  
Max. 10.0 MHz  
Pitch: 0.352 mm

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Radius: N/A

Number of Elements: 96

**Trans-vaginal Probe:**

Frequency: Central 6.5 MHz

Min. 2.0 MHz

Max. 10.0 MHz

Pitch: 0.216 mm

Radius: 10 mm

Number of Elements: 96

## User Interface

- Intuitive Windows-based operating principles
- User-centric control panel with HomeBase layout and control customization
- On/Off task light and back-lit illumination of control panel
- Variable brightness indicates active state of function keys
- Easily accessible, full size QWERTY keyboard for text entry, function keys and system programming
- Cine Playback, Multiple Arrows, Configurable Worksheets, Exam Review, Pictograms (Body Marks), System Setup Menu

## Imaging Modes

B, 2B, 4B, M, B/M, B/C, B/D,

B/C/D, B/CFM/D, PDI

Color, Dual Color

Simultaneous 2D/Color Compound

PW, CFM, CDE, PD, Directional PD, CD

**B-Mode**

Maps: 17

Focus Count: Max. 4

Gain: 0~255

TGC: 8 Sliders

Dynamic Range: 0~150dB

Depth: Max. 30cm

Acoustic Power: 0 ~ 15

Chroma: 0~7

Grayscale Levels: 256

Frame Rate: Max. 1028Hz

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Persistence/ Frame Average: Up to 7

Image Optimization: 0~6

Top/Bottom/Left/Right Reverse

Speckle Reduction

Second Harmonics

#### **M-Mode**

Maps: 16

Chroma: 16

Sweep Speed: 3

Gain: 0~255

Distance: Point-to-Point

Max Steer Angle: 15°

Diameter Reduction: Point-to-Point

Heart Rate/Time/Distance/Slope

Side-by-Side/Bottom

#### **Color Mode**

Gain: 0~255

Color Maps: 0~6

Doppler Steer Angles: 7 Steps

Wall Filter: 0~3

Spatial Filtering: 0~3

Acoustical Power: 0 ~ 15

Doppler Multi-Frequency: 2MHz~10MHz

Line Density Max: 256 Lines

Persistence/Frame Average: 0~7

Bloodstream Gain: 0~127

Packet Size: 8~15

Baseline/Invert/Color ROI/M-Mode

#### **PW Mode**

Gain: 0~255

D Linear Velocity: 0~2

Doppler Steer Angles: 7 Steps

Edge Enhancement: 0~7

Wall Filtering: 0~3

Audio: 0~255

Correction Angle: 80°/-80°

Doppler Multi-Frequency: 2MHz~10MHz

Pulse Repetition Frequency: 2khz~6khz

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Chroma: 0~7

Baseline Adjustment: 0~6

Three Synchronizations

Spectrum Inversion

## Measurement Specifications

### Analysis Packages

Basic

Obstetrics

Gynecology

Urology

Andrology

Peripheral Vascular

Venous

Small Parts

Orthopedic

### Basic Measurement

B-mode basic measurement: Distance, Angle, Perimeter and Area (ellipse or track-based method), Volume, Histogram, Sectional Map

M-mode basic measurement: Heart Rate, Time, Distance, Speed

### Obstetrics

All general measurements and calculations

Obstetrical data versions to calculate gestational age:

— Two fixed data revisions: Asia & Europe

— One editable data version: User Custom

— Each version can estimate the gestational age and expected date of confinement based on measured gestational sac (GS), biparietal diameter (BPD), crown-rump length (CRL), femur length (FL), humeral length (HL), abdominal transverse diameter (ATD), vertebral length (LV), occipitofrontal diameter (OFD), abdominal circumference (AC) and head circumference (HC)

Obstetrical Report

Amniotic Fluid Index (AFI)

BPD/OFD, FL/AC, FL/BPD and HC/AC ratio

Estimate Weight Of Fetus

Gestational Age

Expected Date Of Confinement (LMP/BBT)

Fetal Biophysical Score

Fetus Growth Curve

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**Gynecology**

All general measurements and calculations

Uterus, Ovary, Follicle

Gynecology Report

**Urology**

All general measurements and calculations

Kidney, Bladder, Residual Urine Volume

Urology Report

**Andrology**

All general measurements and calculations

Prostate, Testis

Prostate Specific Antigen (PSA)

Prostate Specific Antigen Density (PSAD)

Andrology report

**Small Parts**

All general measurements and calculations

Thyroid, Mammary Gland, Nodule

Small Parts Report

**Peripheral Vascular**

All general measurements and calculations

Area Stenosis

Vessel Diameter Stenosis

Peripheral Vascular Report

**Venous**

All general measurements and calculations

Right and left extremity measurements

Venous patient report

**Orthopedic**

All general measurements and calculations

Right and left hip angle measurement

Hip angle patient report

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**Case is Standard Construction**

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