

M7 Hand-carried Diagnostic Ultrasound System



Performance Specifications

System Description

The Mindray M7 Diagnostic Ultrasound System is a premium performance hand-carried color doppler ultrasound imaging system. Mindray research and development engineers employ the System On Chip (SOC) design within the M7. SOC enables complex technologies to be built into the M7's compact laptop style chassis. The M7's exceptional image quality, high speed user experience and versatility have expanded the envelop of performance and flexibility for hand carried ultrasound systems.

Applications

Abdomen, Obstetrics, Gynecology, Cardiology, Peripheral Vessels, Small Parts, Urology, Anesthesia, Emergency Medicine, IC/CCU, Pediatrics, Neonate, Trans-cranial, Interventional, Musculoskeletal, Intra-operative.

General Specification

Dimensions and Weight

Width:	361mm (14.21 inch)
Depth:	357mm (14.06 inch)
Height:	75mm (2.95 inch)
Weight:	Approx. 6.5kg, including batteries.

Electrical Power

AC adapter input

Voltage:	100 – 240V~
Frequency:	50/60Hz
Input current:	1.5 – 0.6A

AC adapter output

Voltage:	12V
Output current:	10A Battery

Battery

Lithium-Ion	
Battery Pack:	11.1V, 4500mAh

Operating Environment

Ambient temperature:	0°C ~ 40°C
Relative humidity:	30% ~ 85% (no condensation)
Atmospheric pressure:	700 hPa ~ 1060 hPa

Storage and Transportation Environment

Ambient temperature:	-20°C ~ 55°C
Relative humidity:	30% ~ 95% (no condensation)
Atmospheric pressure:	700 hPa ~ 1060 hPa

Console Design

Display	
Control Panel	
Handle	
Transducer port	
Transducer locking lever	
IO extend port	
Power input port	
USB port:	2
Ethernet port	
S-Video separate video output	
Wireless LAN support	

User Interface

Control Panel

Alphanumeric keys	
Functional keys	
Navigation Rotary Knob	
Ergonomic soft key operations	
Backlight keys	
8 segment TGC	
Power/Battery indicator	
Blank keys for user-defined functions	
Trackball, sensitivity and color adjustment	
Integrated speakers, audio volume adjustment	

Display Screen

Display:	15 inch LCD, High-Resolution 1024 x 768
Brightness adjustment	
Screen saver:	setting adjustment

Inputs & Outputs

Main Unit

Transducer port:	1 (Connect to a Transducer or the Transducer extend module)
I/O extend port:	1 (Connect to the I/O extend module)
Power input port:	Connect to the power adapter
USB port:	2
S-Video separate video output:	1 (For image signal output)
Ethernet port:	1 (To connect to the network)

I/O Module (optional)

USB port:	2
ECG port:	1
Serial port:	1
Audio output port:	1 L/R
Mic In port:	1
Remote control port:	1
Composite video output port:	1
DVI-I output port:	1

V/A Extend Module (optional)

Audio input port:	L/R
Composite video input port	
Separate video input port	

ECG Module (optional)

ECG lead port	
Connection port:	To connect to I/O module

Mobile System Cart

UMT-200	
UMT-300	
15 inch Extra LCD Display (optional)	
Power supply module (optional)	
External DVD R/W storage (optional)	

Intelligent Workflow

Synchronous navigation:	On-screen instructions
Screen saver mode:	Transducer transmission is turned off
Thumbnail images:	Display saved images during live scan
Soft keys:	Shortcut for easy access to system
Menus and active parameter adjustment	
Report edit and preview function	
Backlight indication	
User account management tool	
Task management tool	

System Overview

Exam Mode

Factory default:	35, user customizable
User Defined:	15
Total:	50 exam modes, all customizable

Scanning Method

Electronic convex	
Electronic linear with steer and trapezoid scanning function	
Electronic sector	
Transducer Type	
Linear array	
Phased array	
Convex array	

Imaging Mode

B	
M	
Free Xros M:	Anatomical M mode
Color	
Power (DirPower)	
PW	
CW	
Smart 3D	
Static 3D	
4D (optional):	Dynamic 3D
iScape™ (panoramic imaging)	
TDI (Tissue Doppler imaging)	
Color M (CM)	

Display Mode

Triplex mode:	B/C/D
Dual live:	B/C, B/TDI
Adjustable 2D/ time line display format	
Single window	
Dual-split:	
Quad-split:	

Performance Specifications

Imaging Technology

Tissue harmonic imaging
 Tissue doppler Imaging
 Steer scanning for linear transducers (B, Color/Power, PW/CW independent)
 Trapezoid imaging for linear transducers
 iBeam™: Spatial compounding imaging for linear transducer
 iClear™: Adaptive speckle suppression imaging for all transducers
 iTouch™: Quick optimization for B or PW/CW image with one button control

HPRF for PW
 Multi-frequency Transducers for 2D and Doppler imaging modes

Imaging Feature

Zoom: Magnification factor 1 – 10
 Full screen (iZoom): Zoom in the image area
 System dynamic range: 30 – 160dB
 Frame rate (Max.): 643 frames/s
 Adjustable focus positions (Max.): 16
 Maximum frame rate in 4D: 30 volumes/s

Languages

Software display, control panel overlay and electronic copy of operation manuals including: Chinese, English, French, German, Italian, Portuguese, Russian, Spanish, Polish, Czech, Turkish, Finnish, Danish, Icelandic, Norwegian, and Swedish.

System Configuration

Standard Configuration

Display: 15 inch LCD display, High resolution

PW
 HPRF
 Color doppler flow imaging
 Power doppler flow imaging
 Directional power doppler flow imaging

Tissue harmonic imaging
 Trapezoid imaging
 iBeam™
 iTouch™
 iStation™
 160G Integrated hard disk
 Multi-language screen display and control panel overlay
 Carrying case with telescopic handle

Software Options

iClear™
 CWD module
 iScape™ module
 Free Xros M (Anatomical M)
 Smart 3D module
 4D module
 TDI (Tissue Doppler imaging) module

Application packages, including exam mode, comments, measurements, body marks and report.

Abdominal package
 Obstetrical package
 Gynecological package
 Cardiac package
 Small parts package
 Urological package
 Vascular package
 Pediatric package
 Nerve blocks package
 Emergency medicine

DICOM basic function module (including: task management, DICOM storage, DICOM print, DICOM storage commitment, DICOM media storage (including DICOM DIR)

DICOM Worklist
 DICOM MPPS
 DICOM OB/GYN structured report
 DICOM vascular structured report
 DICOM cardiac structured report
 DICOM Query/Retrieve

Hardware Options

External USB DVD-RW: SE-S224Q
 IO extend module: IOM-21
 Transducer extend module: PEM-21
 V/A extend module: VAM-11
 ECG module: ECG-21
 ECG lead
 Footswitch: 971-SWNOM
 Mobile trolley: UMT-300
 Pack

Dust-proof cover
 Battery Pack (LI23I001A)
 Wireless-LAN adapter
 Transducers
 Needle-guided brackets
Peripherals Supported
 Black/white video printer
 SONY UP-D897
 Color video printer: SONY UP-D23MD
 Graph/text printer
 HP Deskjet D2568
 HP OfficeJet J3600 (HP Officejet J3608 All-in-One)
 HP Color LaserJet CM1015

Display Annotations

Manufacturer logo
 Hospital name: Display up to 64 characters
 Exam date: 3 types selectable, YY/MM/DD, MM/DD/YY, DD/MM/YY
 Exam time: 2 time formats
 Acoustic output indices: MI, TIC, TIS, TIB
 Freeze icon
 Gender
 Age

ID: Display up to 64 characters
 Name display up to 64 characters

Transducer model
 Current exam mode
 ECG icon (displays when connects with a physiology module)
 Accession#
 Operator: display up to 64 characters
 Menu
 Image
 ECG trace
 Transducer orientation mark
 Time line
 Coordinate axis, including depth, time, velocity/frequency
 TGC curve
 Focus
 Comment
 Body Mark
 Measure caliper
 Gray/color scale bar
 Thumbnail
 Cine icon
 Trackball functionality status icon
 Help information
 Soft Menu
 Status icons
 Biopsy guideline
 Measure result window (up to 8 results can be displayed)
 Image parameters
 B mode (including iScape™)
 Frequency (F)
 Depth (D)
 Gain (G)
 Frame rate (FR)
 B IP (IP)
 Dynamic range (DR)
 Color mode
 Frequency (F)
 Gain (G)
 IP (IP)
 Pulse repeated frequency (PRF)
 Wall filter (WF)
 M mode
 M Speed (V)
 M IP (IP)
 Dynamic range (DR)
 Power mode
 Frequency (F)
 Gain (G)
 IP (IP)
 Pulse repeated frequency (PRF)
 Wall filter (WF)

Performance Specifications

System Configuration (cont'd)

PW mode

- Frequency (F)
- Gain (G)
- Pulse repeated frequency (PRF)
- Wall filter (WF)
- Sample volume depth (SVD)
- Sample volume (SV)

CW mode

- Frequency (F)
- Gain (G)
- Pulse repeated frequency (PRF)
- Wall filter (WF)
- Sample volume depth (SVD)
- Free Xros M (anatomical M)
- Gain (G)
- Velocity (V)

TVI mode

- Frequency (F)
- Gain (G)
- TVI IP (IP)
- Pulse repeated frequency (PRF)
- Wall filter (WF)

TEI mode

- Frequency (F)
- Gain (G)
- TEI IP (IP)
- Pulse repeated frequency (PRF)
- Wall filter (WF)

TVD mode

- Frequency (F)
- Gain (G)
- Pulse repeated frequency (PRF)
- Wall filter (WF)
- Sample volume depth (SVD)
- Sample volume (SV)

3D/4D

- Brightness (B)
- Contrast (C)
- Scan method (only for Smart 3D)
- Quality (Q, for Static 3D and 4D)
- Angle (A)
- Parameter pack: default or user-defined

Setup

General settings

User-defined

functional keys: Print, Save, F1-F6, footswitch

Customize user-defined exam modes in:

- Exam selection of each Transducer
- Configuration of measurement packages, body mark and comment libraries
- Imaging parameters setting as well as layout of menus and soft keys in imaging mode
- 15 User-defined exam modes

Create new measurement items, body marks and comments

Preset data manage: to save, load, export and default

Peripheral devices installation and setting

DICOM settings and network setting

System Maintenance (network updating, remote desktop, system test, log operation and preset)

System information viewing

Imaging and Processing

Display Depth

- Minimum: 18mm, Transducer dependent
- Maximum: 388mm, Transducer dependent

B mode

- Gain: 0 – 100
- TGC: 8 segments, with re-mapping functionality at any depth

iTouch™: -12dB – 12dB

iTouch™ Bright: -2, -1, 0, 1, 2

FOV position

B IP: 1 – 8, combination of dynamic range, iClear™, persistence, smooth

THI IP: 1 – 8, combination of dynamic range, iClear™, persistence, smooth

Rotation: 0°, 90°, 180°, 270°

Colorize/Colorize Map: On/Off, 1 – 10

A. power: 10% – 100%, in increments of 6

FOV: N, W, M1, M2

Line Density: L, M, H, UH

L/R Flip

iClear™: 1 – 4, Off

Persistence: 0 – 7

U/D Flip

TSI: General, Muscle, Fat, Fluid

Smooth: 1 – 4

Gray Rejection: 0 – 5

y: 0 – 3

Curve

High FR: On, Off

Frequency: Transducer dependent

Focus Position

Dyn Ra.: 30dB – 160dB, in increments of 5dB

Gray Map: 1 – 8

Focus Number: 1 – 4

B Steer: -6°, 0°, 6°

Trapezoid: On, Off

iBeam™: On, Off

Img Merge: On, Off

M mode

Gain: 0 – 100

TGC: 8 segments, with re-mapping functionality at any depth

IP: 1 – 8, combination of dynamic range, M soften, edge enhance

A power: 10% – 100%, in increments of 6

Display Format: L/R, 1:1, 1:2, Full

M Soften: 0 – 4

Gray Rejection: 0 – 5

y: 0 – 3

Curve

Colorize/

Colorize Map: On/Off, 1 – 10

Time Mark: On, Off

Focus Position

Frequency: Transducer dependent

Speed: 1 – 6

Dyn Ra.: 30dB – 160dB, in increments of 5dB

Edge Enhance: 0 – 3

Gray Map: 1 – 8

Color mode

Gain: 0 – 100

Color IP: 1 – 8, combination of Smooth and Persistence

A. power: 10% – 100%, in increments of 6

Line Density: L, M, H, UH

B Display: On, Off

Smooth: 0 – 4

Persistence: 0 – 4

Baseline: -8 – +8

Focus Position: 0% – 100%

Packet Size: 0 – 3

B/C Wide: On, Off

Dual Live: On, Off

Map: V0 – V10, VV0 – VV9

Priority: 0 – 100%

WF: 0 – 7

Frequency: Transducer dependent

Scale: Frequency, Transducer and depth dependent

Steer: Transducer dependent

Invert: On, Off

Flow State: L, M, H

Power (DirPower)

Gain: 0 – 100

Packet Size: 0 – 3

Flow State: L, M, H

Dyn Ra.: 10dB – 70dB, in increments of 5dB

Power IP: 1 – 8, combination of Smooth and Persistence

A. power: 10% – 100%, in increments of 6

Line Density: L, M, H, UH

Smooth: 0 – 4

Persistence: 0 – 4

Focus Position: 0% – 100%

B Display: On, Off

B/C Wide: On, Off

Dual Live: On, Off

Map: P0-3 (Power), dP0-3 (DirPower)

Priority: 0% – 100%

Frequency: Transducer dependent

Scale: Frequency, Transducer and depth dependent

Invert: On, Off

WF: 0 – 7

Steer: -12°, 0°, 12°

Performance Specifications

Imaging and Processing (cont'd)

PW/CW

Gain:	0 – 100
V Max:	On, Off
V Mean:	On, Off
Colorize/	
Colorize Map:	On/Off, 1 – 10
Dyn Ra.:	24dB – 72dB, in increments of 2
Audio:	0 – 100%, in increments of 2
Trace Area:	Above, Below, All
A. power:	10% – 100%, in increments of 6
Trace Sensitivity:	0 – 5
Trace Smooth:	Off, 1 – 4
Time Mark:	On, Off
Display Format:	L/R, 1:1, 1:2, Full
T/F Res:	0 – 3
Auto Calc Param:	On, Off
HPRF:	On, Off
Frequency:	Transducer dependent
Scale:	Frequency, Transducer and depth dependent
Baseline:	-4 – +4
Invert:	On, Off
Quick Angle:	-60, 0, 60
Angle:	-80 – 80°, in increments of 1°
SV:	0.5mm – 20mm
SVD	
WF:	0 – 6
Auto Calc:	On, Off
Speed:	1 – 6
Duplex/Triplex:	On, Off
Gray Map:	1 – 8
Post Process:	Curve, Gray Rejection, y
PW Steer:	Maximum ±20° (Transducer dependent)

Free Xros M

Gain:	0 – 100
TGC:	8 segments, with re-mapping functionality at any depth

Colorize/	
Colorize Map:	On/Off, 1 – 10
Post Process:	N, curve, gray rejection
Display Format:	L/R, 1:1, 1:2, Full
Display:	Cur., Full
Mark Adjustment:	Show A, Show B, Show C
Time Mark:	On, Off
Angle	
Speed:	1 – 6
Gray Map:	1 – 8

CM

For parameter details in CM mode, please refer to relevant sections of B, Color and M modes.

TVI

Gain:	0 – 100
Baseline:	-8 – +8
TVI IP:	1 – 8, combination of Smooth and Persistence
A. power:	10% – 100%, in increments of 6

Line Density:	L, M, H, UH
B Display:	On, Off
Smooth:	0 – 4
Persistence:	0 – 4
Focus Position:	0% – 100%
Packet Size:	0 – 3
B/C Wide:	On, Off
Dual Live:	On, Off
Map:	V0 – V10
Priority:	0% – 100%
WF:	0 – 7
Frequency:	Transducer dependent
Scale:	Frequency, transducer and depth dependent
Invert:	On, Off
Tissue State:	L, M, H

TEI

Gain:	0 – 100
Dual Live:	On, Off
TEI IP:	1 – 8, combination of Smooth and Persistence
Focus Position:	0% – 100%
Frequency:	Transducer dependent
Scale:	Frequency, Transducer and depth dependent

Tissue State:	L, M, H
Invert:	On, Off
WF:	0 – 7
Persistence:	0 – 4
Smooth:	0 – 4
Dyn Ra.:	10 – 70dB, in increments of 5
B/C Wide:	On, Off
Map:	P0 – P3, dP0 – dP3
Packet Size:	0 – 3
B Display:	On, Off
Priority:	0 – 100%
Line Density:	L, M, H, UH
A. power:	10% – 100%, in increments of 6

TVD

Gain:	0 – 100
Quick Angle:	-60°, 0°, 60°
WF:	0 – 6
Trace Sensitivity:	0 – 5
Auto Calc Param	
V Max:	On, Off
V Mean:	On, Off
Trace Area:	Above, Below, All
Duplex/Triplex:	On, Off
Colorize/	
Colorize Map:	On/Off, 1 – 10
Gray Map:	1 – 8
Invert:	On, Off
Speed:	1 – 6
Angle:	-80° – 80°, in increments of 1
SV:	0.5mm – 20mm
SVD	
A. power:	10% – 100%, in increments of 6
Display Format:	L/R, 1:1, 1:2, Full

Audio:	0% – 100%, in increments of 2%
Frequency:	Transducer dependent
Scale:	Frequency, Transducer and depth dependent
Baseline:	-4 – +4
Dyn Ra.:	24 – 72dB
Trace Smooth:	Off, 1 – 4
Time Mark:	On, Off
T/F Res:	0 – 3
Post Process:	Curve, Gray Rejection, y

TVM

For parameter details in TVM mode, please refer to relevant sections of B, M and TVI modes.

3D/4D

Method (only for Smart 3D):	Fan, Linear
Direction:	Up/Down, Down/Up, Back/Front, Front/Back, Left/Right, Right/Left
Display Format:	Single, Dual, Quad
Distance (for Smart 3D only):	10 – 200mm, in increments of 10mm
Angle	
Smart 3D:	10 – 80°, in increments of 2°
Static 3D/4D:	Transducer dependent
Quality (for Static 3D/4D only):	Low 1, Low2, Mid, High 1, High2
Inversion:	On, Off
Para pack:	5
Auto Rot.:	On, Off
Reset ROI (For Smart 3D only)	
Adjusting VOI:	On, Off
Accept VOI:	On, Off
Colorize/	
Colorize Map:	Off, 1 – 5
Reset:	On, Off
Quick rotate angle:	0°, 90°, 180°, 270°
Current image:	A/B/C/3D
Brightness:	0 – 100%, in increments of 2
Contrast:	0 – 100%, in increments of 2
Smooth:	0 – 20, in increments of 1
Threshold:	0 – 100%, in increments of 1
Transparency:	0 – 100%, in increments of 5
Render mode:	Surface, Min, Max, X Ray
MPR Line:	Partial, None, Entire
Edit Type:	Inside Contour, Outside Contour, Big Contour, Big Eraser, Small Eraser, Inside Rect, Outside Rect, Inside Polygon, Outside Polygon
Edit Depth:	Full Depth, User Defined (0 – 100%)
Reset Curve	

iScape™ View

Actual Size	
Fit Size	
Ruler:	On, Off
Colorize/	
Colorize Map:	Off, 0 – 10
Rotation:	0 – 360°, in increments of 5°

Performance Specifications

Comments and Body Mark

Text comment

Comment text (option)

Abdomen:	89
OB:	97
Cardiology:	80
GYN:	69
Vascular:	110
Urology:	61
SMP:	124
Pediatrics:	35
Nerve blocks:	52
EM:	126

User-defined Comments

Add

Delete

Arrow

Arrow Size

Arrow position

Arrow orientation

Trace

Control panel operation

Body Mark

Application package (Option)

Abdomen:	13
OB:	25
Cardiology:	13
GYN:	7
Vascular:	17
Urology:	7
SMP:	46
Nerve blocks:	32
EM:	38

User-defined

New

Copy

Export

Load

Delete

Edit

Storage/Connectivity

320G integrated hard disk

External DVD-R/W (Optional)

USB ports

Image archive on hard disk and DVD, temporary saving in cine memory

Live capture:

Retrospective (1 – 120s, or 1 – 120 cycles)

Prospective (1 – 120s, or 1 – 120 cycles)

Thumbnail

Single image formats: BMP, JPG, DCM, FRM, supports off-line analysis

Multi-frame images

formats: AVI, DCM, CIN, supports off-line analysis

Clip length: 1 – 60s, 1 – 16 cycles

Storage area:

Image area: 640×480

Standard area: 800×600

Full-screen: 1024×768

iVision™

Cine review: Auto, Manual (auto review segment can be set), supports linked cine review for 2D, M/D images, 8380 frames (Max.).

Send/print image after End Exam

DICOM:

DICOM Storage

DICOM print

DICOM Worklist

Query/Retrieve

Structured Report (SR)

Storage Commitment

MPPS

Media review

iStation™

Intelligent patient data management platform

Integrated search engine for patient data

Detailed patient information view

Intelligent data backup/ restore

Patient data/ image sending

Patient data deleting

Exam managing: create new exam, activate exam and continue exam

Recycle Bin

Measure/Calc/Study

Caliper

2D mode

M mode

Doppler mode

Application

Optional package for specific clinical uses

Clinical Packages

Abdomen

Obstetrics

Cardiology

Vascular

Gynecology

Urology

Small Parts

Pediatrics

Diagnostic Report

View/add images

Edit report

Obstetric/vascular analysis

Fetal growth curve

Print report

Import/export report

View history report

Physio Input/ Output

ECCG

Display: On, Off

Position: 0% – 100%, in increments of 5

Display HR: On, Off

Gain: 0 – 30

Transducer Specifications

C5-2s

Array type: Convex-wide

Applications: Gynecology and obstetrics, abdomen, vascular, pediatrics

B mode imaging

frequency: 2.5/3.5/5.0MHz

Harmonic

frequency: 5.0/6.0MHz

Doppler frequency

C: 2.5 /3.0MHz

PW: 2.5 /3.0MHz

Convex radius: 49.57mm

Biopsy guide: NGB-015, 25°/35°/45°

7L4s

Array type: Linear

Applications: Small parts, vascular, musculoskeletal, pediatrics, abdomen

B mode imaging

frequency: 5.0/7.5/10MHz

Harmonic

frequency: 8.0/10MHz

Doppler frequency

C: 5.0/5.7MHz

PW: 5.0/5.7MHz

Steer angle: ±6°/12°

Biopsy guide: NGB-007, 40°/50°/60°

L14-6s

Array type: Linear

Applications: Small parts, vascular, musculoskeletal, pediatrics

B mode imaging

frequency: 8.0/10.0/12.0MHz

Harmonic

frequency: 10.0/11.0MHz

Doppler frequency

C: 5.7 /6.6MHz

PW: 5.7 /6.6MHz

Steer angle: ±6°/20°

Biopsy guide: NGB-016, 30°/40°/50°

Performance Specifications

Transducer Specifications (cont'd)

L14-6Ns

Array type: Linear
 Applications: Small parts, vascular, musculoskeletal, pediatrics
 B mode imaging frequency: 8.0/10.0/11.0MHz
 Harmonic frequency: 10.0/14.0MHz
 Doppler frequency
 C: 5.7 /11MHz
 PW: 5.7 /6.6MHz
 Steer angle: $\pm 6^\circ/20^\circ$

L12-4s

Array type: Linear
 Applications: Small parts, vascular, musculoskeletal, pediatrics
 B mode imaging frequency: 6.0/7.5/10.0MHz
 Harmonic frequency: 10.0/11.0MHz
 Doppler frequency
 C: 5.0 /5.7MHz
 PW: 5.0/5.7MHz
 Steer angle: $\pm 6^\circ/12^\circ$
 Biopsy guide: NGB-007

P4-2s

Array type: Sector phased
 Applications: Cardiology, abdomen, transcranial, pediatrics
 B mode imaging frequency: 2.0/2.5/3.0MHz
 Harmonic frequency: 3.2/3.6MHz
 Doppler frequency
 C: 2.0/2.3MHz
 PW: 2.0/2.5MHz
 CW: 2.0MHz
 TVI: 2.5/3.0MHz
 TVD: 2.0/2.5MHz
 TEI: 2.5/3.0MHz
 Biopsy guide: NGB-011, 11°/23°

P7-3s

Array type: Sector phased
 Applications: Cardiology, abdomen, transcranial, pediatrics
 B mode imaging frequency: 3.6/5.0/6.6MHz
 Harmonic frequency: 6.0/7.0MHz
 Doppler frequency
 C: 3.3/4.0MHz
 PW: 3.2/4.0MHz
 CW: 3.3MHz
 TVI: 3.3/4.0MHz
 TVD: 3.2/4.0MHz
 TEI: 3.3/4.0MHz
 Biopsy guide: None

4CD4s

Array type: Convex
 Applications: Abdomen, gynecology, obstetrics
 B mode imaging frequency: 2.5/4.5/6.0MHz
 Harmonic frequency: 5.0/6.0MHz
 Doppler frequency
 C: 2.5/3.0MHz
 PW: 2.5/3.0MHz
 Convex radius: 40mm
 Swing angle (Max.): 70°
 Biopsy guide: None

V10-4s

Array type: Convex
 Applications: Gynecology, obstetrics, urology
 B mode imaging frequency: 5.0/6.5/8.0MHz
 Harmonic frequency: 8.0/9.0MHz
 Doppler frequency
 C: 4.0/5.0MHz
 PW: 4.0/5.0MHz
 Convex radius: 10mm
 Biopsy guide: NGB-004

V10-4Bs

Array type: Convex
 Applications: Gynecology, obstetrics, urology
 B mode imaging frequency: 5.0/6.5/8.0MHz
 Harmonic frequency: 8.0/9.0MHz
 Doppler frequency
 C: 4.0/5.0MHz
 PW: 4.0/5.0MHz
 Convex radius: 10mm
 Biopsy guide: NGB-004

Safety & Conformance

Quality Standards

ISO 9001:2000
 ISO 13485:2003

Design Standards

UL 60601-1
 CSA C22.2 No. 601-1
 EN 60601-1 and IEC 60601-1
 EN 60601-1-1 and IEC 60601-1-1
 EN 60601-1-2 and IEC 60601-1-2
 EN 60601-2-37 and IEC60601-2-37
 EN60601-1-4 and IEC60601-1-4
 EN60601-1-6 and IEC60601-1-6

CE Declaration

M7 system is fully in conformance with the Council Directive Concerning Medical Devices 93/42/EEC. The number adjacent to the CE marking (0123) is the number of the EU-notified body that certified meeting the requirements of Annex II of the Directive.