



- User Programmable Preset : Over 30 Presets
- หัวข้อ 3.5 User Programmable Key: 4 Keys
- Touch Screen Menu Editable Function
- หัวข้อ 4.2 SonoView™
- Data Backup / Restore
- Image Exporting and Importing
- PW Velocity Range: 0.1cm/s ~ 8.8m/s
- CW Velocity Range: 1cm/s ~ 19.3m/s

- Gel Warmer
- Printer Tray (Large / Small)
- 3P connector PSA
- 3P Connector PSA (with Pencil Probe Port)
- 4P Connector PSA
- 4P Connector PSA (with Pencil Probe Port)

**SYSTEM OPTIONS**

- 4D
- 3D XI™
- Auto IMT+
- Cardiac Measurement
- CW Function
- DICOM 3.0
- ElastoScan
- EZ Exam+
- Hello Mom
- Needle Mate+
- Panoramic
- SD NT
- SD Follicle
- RealisticVue
- XI STIC
- MultiVision
- Strain+
- SEE Stream (RU region only)
- RUS restricted mode (RU region only)
- DVD-RW
- ECG (AHA / IEC)
- Foot Switch

**DISPLAY**

- Application
- Preset
- Mode
- Date: 3 types (Selectable)
  - YYYY-MM-DD
  - MM-DD-YYYY
  - DD-MM-YYYY
- Time: 2 types (Selectable)
  - 24 hours
  - 12 hours
- Patient (General Information)
  - Patient ID
  - Patient Name (First, Middle & Last)
  - Gender: Female, Male, Other
  - Birth / Age
  - Accession Number
  - Diag. Physician
  - Ref. Physician
  - Operator
  - Indication
  - Study Information
  - E-mail

หัวข้อ 3.1.2 Biometry Assist

Gestational Age: LMP/EDD/GA  
Institute

**Quantum**  
HEALTHCARE  
บริษัท ควอนตัม เฮALTHCARE (ไทยแลนด์) จำกัด  
Quantum Healthcare (Thailand) Co., Ltd.

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*Scan*

Operator - English, French, German, Italian, Russian, Nordic  
 Probe Name (Norwegian, Finnish, Swedish, Danish)

Probe Orientation

Depth / Width

**OPERATING ENVIRONMENT**

Focal Zone

Temperature: 10°C ~ 35°C

Focal Number

Humidity: Up to 90%

TGC Line

Pressure: 700 ~ 1060 hPa

FPS (Hz)

Frequency

Gain

**PROCESSING**

Dynamic Range

Map

**DATA PROCESSING**

Frame Average

④ 3.1 System Processing Channel: 573,440

Power

④ 3.16 Raw Data Image Analysis

ClearVision Index

Cine

MultiVision Index

- Function: save / review / play / stop / pause / export /Trim

Gray Bar

Start / Trim End

Acoustic Index: T1s, T1b, T1c

Clipboard: displays thumbnail images of the acquired

Mechanical Index: MI

data for the current exam

Caliper & Measurement Result

④ 3.15 Enlarged Preview of the image

Indicator

Image Archive / Connectivity

Pointer

④ 4.3 Image format: AVI, MPEG, JPEG, BMP, TIFF, DICOM

Body Marker

④ 4.2 Image Viewer (Sonoview™)

ROI Position / ROI Size

Measurements, Calculations and Annotations on CINE Playback

Wall filter

④ 3.14 Measurements Auto Sequence

Zoom / Panning

Number of Image Storage : max. 350,000 images

Biopsy Guide Line (Probe dependent)

(RAW format)

Image Preview

Cine Image Preview

Recalling Image from the Clipboard

Scrolling Timeline Memory

Start and End Frame Selections for Loop Playback

**LANGUAGE**

Display Language

- English, French, German, Italian, Spanish, Portuguese,

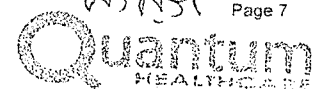
Chinese, Russian

Input Language



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PRE-PROCESSING

- B/M-Mode
- Dynamic Range
- Frame Average
- Frequency
- Gain
- Tissue Harmonic Imaging
- Pulse Inversion Harmonic (Probe dependent)
- Line Density
- Power
- Reject
- Scan Area
- TGC
- Write Zoom
- MultiVision (Probe Dependent)
- Beam Steering (Probe Dependent)
- Trapezoid (Probe Dependent)
- Free Angle Plane
- PW Mode
- Filter
- Frequency
- Gain
- Power
- PRF (Scale)
- Sample Volume Angle
- Sample Volume Position
- CW Mode
- Sample Rate
- Filter
- Gain
- Power
- Sample Volume Angle

- Sample Volume Position
- Color Doppler / Power Doppler mode
- Filter
- Frame Average
- Frequency
- Gain
- Line Density
- Power
- PRF (Scale)
- Smoothing
- Sensitivity
- Steer Angle
- 3D / 4D Mode
- Scan Quality
- Volume Angle
- ElastoScan Mode
- Frame Average
- Frequency
- Line Density

POST-PROCESSING

- B-Mode
- Chroma Map
- Gray Map
- Image Size
- Read Zoom
- ClearVision
- Sweep Speed
- M-Mode
- Chroma Map
- M Mode Map
- Read Zoom



16/11/22



- Sweep Speed
- PW / CW Mode
- Base line
- Chroma Map
- Doppler Map
- Invert
- Read Zoom
- Sound
- Trace Direction
- Trace Method
- Color Doppler / Power Doppler Mode
- Balance
- Baseline
- Chroma Map
- Color Map
- Hide Color
- Invert
- Read Zoom
- 3D Mode
- 3D
- 3D XI™
- Accept ROI
- Chroma Map
- MagiCut™
- VOCAL™
- XI VOCAL™
- 5D NT
- XI STIC™
- ElastoScan Mode
- E-Gain
- Contrast
- Color Map

- Alpha Blending
- Blending Level
- Enhancement

CONNECTIVITY

DICOM

- DICOM 3.0
- DICOM Media
- DICOM Performed Procedure Step (PPS)
- DICOM Print
- DICOM Storage
- DICOM Storage Commitment (SC)
- DICOM Structured Reporting (SR)
- DICOM Verification
- DICOM Worklist Management
- DICOM Q/R
- Multi Frame
- Single Frame
- 3D Volume Frame
- Transfer Mode
- Send after acquisition
- Send on end exam
- Send manually
- VOI LUT Setup

IHE

- Scheduled Workflow (SWF)
- Patient Information Reconciliation (PIR)
- Portable Data for Imaging (PDI)
- Evidence Documents (ED)

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PERIPHERAL INTERFACE

- Audio in L/R
- Audio out L/R
- D-SUB output
- S-Video output
- ข้อ 4.4 HDMI output
- ข้อ 2.5 USB 2.0 (6 ports)
- Ethernet 10/100/1000BASE-T
- Foot Switch: USB 2.0 (IPX 8)
- DVD Recorder: Sony DVO-1000MD
- S-video, NTSC/PAL
- Recording only
- Printers
- Digital BW Video Printer: Sony UP-D897, Sony UP-D898MD, Sony UP-X898MD, Mitsubishi P95DW, Mitsubishi P95D
- Digital Color Video Printer: Sony UP-D25MD, Mitsubishi CP30DW
- USB Line Printer: Samsung CLP-620NDK, ML-2950

- Flip: L/R, U/D
- Focus Number: 1 ~ 4
- Frequency Compounding
- Frequency: 3 ~ 5 steps (Probe Dependent)
- Pen2, Pen1, Gen, Res1, Res2
- ข้อ 3.2.2.5 Gain: 0 ~ 100 dB (Selectable in 1 increment), Post Gain -20 to 20
- Gray Map: 1 ~ 12
- Harmonic: On, Off
- Image Size: 70 ~ 100%
- Line Density: Low, Med, High
- ข้อ 3.6 Number of TGC Level: 8
- ข้อ 3.2.2.3 Edge Enhance : -3 ~ 3
- ข้อ 3.2.2.4 Power: 2 ~ 100
- Tissue Harmonic Imaging : On, Off (Probe dependent)
- ข้อ 3.11 QuickScan™
- ข้อ 3.2.2.2 Reject Level: 0 ~ 30
- ข้อ 3.9 MultiVision Index: Off, Low, Med, High
- ข้อ 3.8 ClearVision Index: Off, 1 ~ 5
- Trapezoid: On, Off (Linear Probes only)
- Scan Area: 40 ~ 100%

SCANNING PARAMETERS

ข้อ 3.22 2D MODE

- Angle Steering: 0°, +/-7°, +/- 12°
- Chroma Map: off, 1 ~ 11
- Cine Play: On, Off
- Cine Speed: 6, 12, 25, 50, 100, 150, 200, 300
- ข้อ 3.22.6 Depth: 2 cm ~ 38 cm (Probe dependent)
- Dual Live
- Frame Average: 0 ~ 9
- ข้อ 3.22.1 Dynamic Range: 30 ~ 256

ข้อ 3.23 M MODE

- ข้อ 3.23.3 Chroma Map: Off, 1 ~ 11
- ข้อ 3.23.1 Display format
- M-mode only
- Up/down, Side by side
- ข้อ 3.23.4 - Size: 50/50, 70/30, 30/70

- ข้อ 3.2.2.7 Zoom
- Read Zoom: 100 ~ 800 %
- Write Zoom
- Panning
- Free Angle Plane

*for*



Dynamic Range: 30 ~ 256

Gain: 0 ~ 100

M Mode Map: 1 ~ 12

Power: 2 ~ 100

QuickScan™: Off, On, Update

หัวข้อ 3.2.3.2 Sweep Speed

Color M

Anatomical M

หัวข้อ 3.2.4 COLOR MODE

Balance: 0 ~ 16

Baseline: -8 ~ 8 : Live, Frozen

หัวข้อ 3.2.4.1 Color Map: 1 ~ 12

หัวข้อ 3.2.4.4 Line Density: Low, Med, High

หัวข้อ 3.2.4.2 Dual Live: On, off

Sensitivity: 0 ~ 5

Frame Average: 0 ~ 5

Frequency: 2 steps

Gain: 0 ~ 100

Hide Color: On, Off

หัวข้อ 3.2.4.3 Invert: On, off

Frame Average: 0 ~ 10

Power: 2 ~ 100

หัวข้อ 3.2.4.5 PRF: 0.1kHz ~ 19.5kHz (Probe dependent)

Sensitivity: 0 ~ 5

Smoothing: 0 ~ 5

Steer Angle: 0°, ±15°, ±20°, ±30°

Velocity

Filter: 1 ~ 4

Vel + Variance Map

หัวข้อ 3.2.5 PWD MODE

หัวข้อ 3.2.5.5 Auto Calc: Off, Live, Frozen (PSV,EDV,RI,PI,S/D,VTI,HR)   หัวข้อ 3.2.5.6

Base Line: -8 ~ 8: Live, Frozen

Chroma Map: Off, 1 ~ 11

หัวข้อ 3.2.5.1 Display format: Up/down, Side by side, Doppler Only

Display Size: 70/30, 50/50, 30/70

Doppler Map: 1 ~ 12

Dynamic Range: 30 ~ 256

Frequency: 2 Steps

Gain: 0 ~ 100

Invert: On, Off

Power: 2 ~ 100

PRF: 1.0 ~ 22.5 kHz (Probe dependent)

หัวข้อ 3.11 QuickScan™: On, update

หัวข้อ 3.2.5.2 Simultaneous: On, Off

Doppler scale unit : Velocity , Frequency

หัวข้อ 3.2.5.3 Angle Correction: -80° ~ 80°

SV Position control, Relative focal position

หัวข้อ 3.2.5.7 SV Size: 0.5 ~ 25mm

Quick Angle: 0°, 60°, -60°

หัวข้อ 3.2.5.4 Sweep Speed: 15 ~ 117 mm/s

Trace

- Method: Off, Mean, Max

- Trace Direction: Both, Above, Below

HPRF

Filter: 1 ~ 4

CWD MODE

Auto Calc.: Off, Live, Frozen

Base line: -8 ~ 8

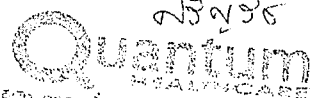
Chroma Map: Off, 1 ~ 11

Display Format: Up/down, Side by side, Doppler Only

Display Size: 70/30, 50/50, 30/70



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- Doppler Map: 1 ~ 12
- Dynamic Range: 30 ~ 256
- Gain: 0 ~ 100
- Invert: On, Off
- Power: 2 ~ 100
- Sample Rate: 1.8kHz ~ 57kHz (probe dependent)
- QuickScan™: On, update
- Sound: 0 ~ 100
- Angle Correction: -80° ~ 80°
- SV Position Control
- Quick Angle: 0°, 60°, -60°
- Sweep Speed: 18 ~ 142 mm/s
- Trace
  - Method: Off, Mean, Max
  - Direction: Both, Above, Below
- Filter: 1 ~ 4
- Steer Angle: 0°, +/-15°, +/-20°, +/-30°
- Filter: 1 ~ 4

3D/4D MODE

- 3D
- 4D (Live 3D)
- Color 3D
- 3D XI™
- MSV
- Oblique View™
- XI VOCAL™
- 5D NT
- MagiCut™
- Orientation Help
- Curved ROI
- 3D Cine
  - Rotation Angle: 30°/45°/60°/90°/180°/360°
  - Step Angle: 1°/3°/5°/15°
- 4D Cine
  - Cine Type: Volume, Image
  - Layout
  - Play Mode: Loop, Yoyo
  - Speed: Very Slow, Slow, Normal, Fast, Fastest
  - Trim Start, Trim End
  - Volume Index
- MPR
- 2D
- Render
- Accept ROI
- Init
- Layout
- Ref. Image: A/B/C/OH

หัวข้อ 3.26 PD MODE

Balance: 0 ~ 16 step

หัวข้อ 3.26.1 Color Map: 1 ~ 12

Line Density: Low, Med, High

หัวข้อ 3.26.2 Dual Live: On, off

Filter: 1 ~ 4

Frame Average: 0 ~ 5 step

Frequency: 2 steps (probe dependent)

Gain: 0 ~ 100

Hide Color

Invert: On, Off (S-Flow™ only)

Power: 2 ~ 100

PRF: 0.1 ~ 19.5 kHz (Probe dependent)

Sensitivity: 0 ~ 5

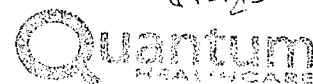
Smoothing: 0 ~ 5

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- 3D Rotation: -90°/90°/180°
- Select
- Position
- Bias
- Mix
- Vol. Index
- Th. Low
- Transparency
- MSV
- Layout
- Ref. Image: A / B / C / MSV OH
- Page
- Init
- Orientation Dot
- Position
- Bias
- Selected Slice
- Vol. Index
- Slice Thick.
- Ruler
- Oblique View™
- Layout
- Auto Increment
- OVIX™
- Init
- Clear Line
- Cut Type: Line / Contour / Parallel / Plumb
- Image Rotation: -90° / 90° / 180°
- VOCAL™
- Solid / General / Prostate / Cystic / Sphere / Manual
- Init
- Ref. Image: A / B / C

- Step Angle: 12° / 18° / 30°
- Start
- Pole 1 / Pole2
- XI VOCAL™
- Solid / Cystic / General / Manual
- Init
- Ref. Image: A / B / C / Ref. Contour
- Slice Direction
- Start
- Number of Slice
- Chroma Map
- 2D Chroma Map: Map 1 ~ Map 10
- 3D Chroma Map: Map 1 ~ Map 10
- Post Processing
- Negative / Auto Contrast / Threshold / Sharpen / 3D CI
- Preset (Probe dependent)
- Default / Surface / Skeleton / Extremity / Brain / User1~3
- Load / Save / Rename / Reset
- ROI Size / ROI Position
- Rendering Preset: Default / Surface / Skeleton / Extremity / Brain / User1~3
- Scan Quality: Low, Med1, Med2, High
- Volume Angle: 10 ~ 90 (Probe dependent)
- XI STIC™
- Scan Time (7 ~ 15 sec)
- Trimester (1Trim, 2Trim, 3Trim)
- Speed (Very Slow, Slow, Normal, Fast, Fastest)
- Vol. Index
- SD NT
- SD Follicle
- RealisticVue



๑๓/๖/๑๖

โธมัส





- Light direction (9 directions)
- Move light
- Set color (Hue, Saturation, Lightness)

Radius of curvature : Flat  
 Field of view : 52 mm  
 Number of elements : 128  
 Biopsy Guide : Available

ELASTOSCAN MODE

- Line Density: Low, Med, High
- Invert: On, off
- Dual Live: On, off
- Frequency
- Gain: 0 ~ 100
- Contrast: 0 ~ 100
- Frame Average: 0 ~ 100
- Color Map: 1 ~ 5
- Alpha Blending: On, off
- Blending Level: 0 ~ 100
- Enhancement: 0 ~ 100

Application : Abdomen, MSK, Small Parts, Vascular, OB,  
 GYN, Pediatric  
 Safety Class: BF

CONVEX

ข้อ 5.1 C2-8

Band Width: 2 ~ 8 MHz  
 Radius of curvature : 51.07 mm  
 Field of view : 68.176 °  
 Number of elements : 128  
 Biopsy Guide : Available  
 Application : Abdomen, MSK, OB, GYN, Pediatric,  
 Vascular, Urology  
 Safety Class: BF

TRANSDUCERS

LINEAR

LN5-12

Band Width : 5~ 12 MHz  
 Radius of curvature : Flat  
 Field of view : 38.1 mm  
 Number of elements : 128  
 Biopsy Guide : Available  
 Application : Abdomen, MSK, Small Parts, Vascular, OB,  
 GYN, Pediatric  
 Safety Class: BF

C2-5

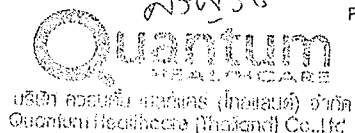
Band Width: 2 ~ 5 MHz  
 Radius of curvature : 39.64 mm  
 Field of view : 75 °  
 Number of elements : 128  
 Biopsy Guide : Available  
 Application : Abdomen, MSK, OB, GYN, Pediatric,  
 Vascular, Urology  
 Safety Class: BF

L5-12/50

Band Width : 5 ~ 12 MHz

CF4-9

Band Width: 4 ~ 9 MHz  
 Radius of curvature : 14 mm  
 Field of view : 92 °



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Number of elements : 128  
Biopsy Guide : Not available  
Application : Abdomen, MSK, OB, GYN, Pediatric,  
Vascular, Urology  
Safety Class: BF

**ENDOCAVITY**

ข้อ 5.2 **EVN4-9**

Band Width : 4 ~ 9 MHz  
Radius of curvature : 10.073 mm  
Field of view : 148.092 °  
Number of elements : 128  
Biopsy Guide : Available  
Application : OB, GYN, Urology  
Safety Class: BF

**ER4-9**

Band Width : 4 ~ 9 MHz  
Radius of curvature : 10.073 mm  
Field of view : 148.092 °  
Number of elements : 128  
Biopsy Guide : Available  
Application : OB, GYN, Urology  
Safety Class: BF

**VOLUME**

**VN4-8**

Band Width: 4 ~ 8 MHz  
Radius of curvature : 38.10 mm  
Field of view : 77.24 °  
Number of elements : 128  
Biopsy Guide : Available  
Application : Abdomen, OB, GYN  
Safety Class: BF

**PHASED ARRAY**

**PN2-4**

Band Width : 2 ~ 4 MHz  
Radius of curvature : Flat  
Field of view : 90 °  
Number of elements : 64  
Biopsy Guide : Not available  
Application : Abdomen, Cardiac, Vascular, Pediatric  
Safety Class: BF

**PENCIL**

**DP2B**

Center frequency : 2.0MHz  
Application : Cardiac  
Safety Class : BF

**MEASUREMENT**

- Caliper
- Abdomen
- Cardiac
- Vascular
- Gynecology
- Obstetrics
- Fetal Heart
- Urology
- MSK
- Small Parts
- Pediatric

**CALIPER**

- 2D Distance
- M Distance



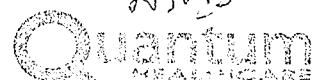
|                                |                             |
|--------------------------------|-----------------------------|
| 2D Trace                       | Pancreas                    |
| 2D Trace length                | Bowel                       |
| Doppler Manual Trace           | Kidney Vol. (Right / Light) |
| Doppler Limited Trace          | Liver                       |
| 2 Lines Angle                  | Spleen                      |
| 3 Points Angle                 | Aorta                       |
| Ellipse (Area / Circumference) | RA (Right / Left)           |
| Spline                         | Seg. A (Right / Left)       |
| Open Spline                    | Arc. A (Right / Left)       |
| Closed Spline                  | Celiac A                    |
| %Stenosis (Diameter)           | Splenic A                   |
| %Stenosis (Area)               | Hepatic A (C / R / L)       |
| 1 Distance Volume              | Hepatic V (R / M / L)       |
| 2 Distance Volume              | Portal V (R / M / L)        |
| 3 Distance Volume              | SMA                         |
| Ellipse Volume                 | IMA                         |
| Ellipse + Distance Volume      | IVC                         |
| Disk Volume                    | IMV                         |
| Slope                          | SMV                         |
| Heart Rate (M, Doppler)        |                             |
| Time (M, Doppler)              |                             |
| Velocity                       |                             |
| Acceleration                   |                             |
| RI                             |                             |
| Volume Flow (Diameter)         |                             |
| Volume Flow (Area)             |                             |
| Auto Trace                     |                             |
| Manual Trace                   |                             |
| Limited Trace                  |                             |

**CARDIAC**

|                   |
|-------------------|
| LV (2D)           |
| LV Vol. (Simpson) |
| LV Vol. (A/L)     |
| LV Vol. (Bullet)  |
| LV Mass           |
| RV (2D)           |
| Aorta             |
| LA                |
| LA Vol. (Simpson) |
| RA                |
| LVOT              |

**ABDOMEN**

|             |
|-------------|
| Gallbladder |
|-------------|



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|                |                                   |
|----------------|-----------------------------------|
| RVOT           | Internal Jugular V (Right / Left) |
| AV             | Innominate V (Right / Left)       |
| MV             | Subclavian V (Right / Left)       |
| TV             | Axillary V (Right / Left)         |
| PV             | Brachial V (Right / Left)         |
| Shunt          | Cephalic V (Right / Left)         |
| IVC            | Basilic V (Right / Left)          |
| Tei Index      | Radial V (Right / Left)           |
| Plum. Vein     | Ulnar (Right / Left)              |
| Hepatic Vein   |                                   |
| Tissue Doppler |                                   |
| Qp/Qs          |                                   |
| LV (M)         |                                   |
| RV (M)         |                                   |

**CAROTID**

|                                    |
|------------------------------------|
| Subclavian A (Right / Left)        |
| CCA (Right / Left/Prox./Mid./Dist) |
| Bulb (Right / Left)                |
| ICA (Right / Left/Prox./Mid./Dist) |
| ECA (Right / Left)                 |
| Vertebral A (Right / Left)         |

**UE ARTERY**

|                             |
|-----------------------------|
| Subclavian A (Right / Left) |
| Axillary A (Right / Left)   |
| Brachial A (Right / Left)   |
| Radial A (Right / Left)     |
| Ulnar A (Right / Left)      |
| SPA (Right / Left)          |

**UE VEIN**

**LE ARTERY**

|                             |
|-----------------------------|
| CIA (Left / Right)          |
| IIA (Left / Right)          |
| EIA (Left / Right)          |
| CFA (Left / Right)          |
| SFA (Left / Right)          |
| DFA (Left / Right)          |
| Popliteal A (Left / Right)  |
| ATA (Left / Right)          |
| PTA (Left / Right)          |
| Peroneal A (Left / Right)   |
| DPA (Left / Right)          |
| MPA (Left / Right)          |
| LPA (Left / Right)          |
| Metatarsal A (Left / Right) |
| Digital A (Left / Right)    |

**LE VEIN**

|                    |
|--------------------|
| CIV (Left / Right) |
| IIV (Left / Right) |
| EIV (Left / Right) |
| CFV (Left / Right) |



PFV (Left / Right)  
SFV (Left / Right)  
GSV (Left / Right)  
Popliteal V (Left / Right)  
LSV (Left / Right)  
ATV (Left / Right)  
PTV (Left / Right)  
Peroneal V (Left / Right)  
MPV (Left / Right)  
LPV (Left / Right)  
Metatarsal V (Left / Right)  
Digital V (Left / Right)

Fetal Cranium  
Fetal Long Bone  
Fetal others  
AFI  
CTAR  
Maternal Others  
Ratio  
Umbilical Artery  
Mid Cereb A  
Uterine A (Right / Left)  
Placenta A  
Fetal Carotid (Right / Left)

**GYNECOLOGY**

Uterus  
Cervix  
Cyst (Right / Left)  
Ovary (Right / Left)  
Follicles (Right / Left / 1 ~ 12)  
Mass 1 ~ 3  
Ovarian A (Right / Left)  
Uterine A (Right / Left)  
Pericystic Flow  
Endometrial Flow  
Endo. Polyp  
Ovarian Mass (Right / Left)  
Uterine Tumor 1 ~ 3  
Cervical Tumor  
Ectopic Pregnancy

Fetal Aorta  
Renal A (Right / Left)  
Duct Venosus  
Fetal HR  
PLI

**FETAL HEART**

LV Vol. (Simpson)  
2D Echo  
CTAR  
MPA  
Duct Artriosus  
IVC  
Duct Venosus  
Asc Aorta  
Dsc Aorta  
MV  
TV  
PLI  
TEI

**OBSTETRICS**

Fetal Biometry

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Fetal HR

M Echo

**UROLOGY**

WG Prostate

T-Zone Vol

Bladder Vol.

Residual Vol

Renal Vol. (Right / Left)

**BREAST**

Mass 1 ~ 10 (Right / Left)

Breast Flow (Right / Left)

**MSK**

Shoulder (Right / Left)

Wrist (Right / Left)

Knee (Right / Left)

Ankle (Right / Left)

**THYROID**

Thyroid Vol. (Right / Left)

Thyroid Flow (Right / Left)

Mass 1 ~ 5 (Right / Left)

**TESTICLE**

Testis Vol. (Right / Left)

Epididymis (Right / Left)

Testis Flow (Right / Left)

Mass 1 ~ 5 (Right / Left)

**SUPERFICIAL**

Superficial Vol (Right / Left)

Superficial Flow (Right / Left)

Mass 1 ~ 5 (Right / Left)

**PEDIATRIC**

Hip Angle (Right / Left)

**SAFETY / EMC**

**CLASSIFICATIONS**

**SAFETY**

- Type of protection against electrical shock: Class I
- Degree of protection against electrical shock (Patient connection): Type BF or CF Applied Part

**EMC**

- RF Emission CISPR 11: Class A
- Degree of protection against harmful ingress of water: Ordinary equipment (All of applied parts (IPX7) except for ECG, and Foot switch (IPX8))

RoHS Compliant

WEEE Compliant

**APPLIED STANDARDS**

**ข้อ 2.6 Safety**

- IEC/EN 60601-1: Ed. 3.0:2005 + A1:2012
- IEC/EN 60601-1: Ed. 2.0:1988 + A1:1991 + A2:1995
- IEC/EN 60601-1-1: Ed. 2.0:2000
- IEC/EN 60601-1-2: Ed. 2.0:2001 + A1:2004 + Ed. 3.0:2007





- |  |  |
|--|--|
| - IEC/EN 60601-1-4: Ed. 1.1:1996 + A1:1999                   | Disable USB Autorun Feature  |
| - IEC/EN 60601-1-6: Ed. 2.0:2006 + Ed. 3.0:2010              | - Executable applications in USB stick are never launched  |
| - IEC/EN 60601-2-37: 2001 + A1:2004 + A2:2005 + Ed. 2.0:2007 | - Prevent autorun virus through USB stickDedicated Output Display on the system monitor display of output acoustic |
| - IEC/EN 60601-2-37: Ed. 1.0:2001 + A1:2004 + A2:2005        | Block Network Port (Except DICOM communication port)   |
| - IEC/EN 62366: Ed. 1.0:2007                                 | - Ultrasound Machine allow only DICOM data through DICOM port  |
| Biocompatibility   | - The network data of other network ports are rejected by Windows firewall   |
| - ISO/EN 10993-1: 2009                                       | Prohibit user from accessing windows application (such as Explorer)  |
| Labeling   | - Impossible to execute applications which is not allowed  |
| - EN 980: 2008   | - Impossible to access internet web pages  |
| - EN 1041: 2008  |  |
| - ISO 15223-1: 2012  |  |
| NEMA/AIUM  |  |
| - NEMA/AIUM UD-2: 2004                                       |  |
| - NEMA/AIUM UD-3: 2004                                       |  |

**ACOUSTIC OUTPUT MANAGEMENT**

- User selectable, transducer and scanning mode dependent
- Dedicated Output Display on the system monitor display of output acoustic
- Power level, as well as thermal and mechanical indices:
  - PWR – Output Power level. Range: From 2 % of maximum output
  - Level is increased by 2% in each step.
  - Mechanical Index (MI): 0.01~1.90 Range
  - Thermal Index (TI): 0.01~6.00 Range
  - TIC – Thermal Index, Bone at Surface
  - TIB – Thermal Index, Bone at Focus
  - TIS – Thermal Index, Soft Tissue

SAMSUNG MEDISON Marketing Strategy Team.

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**XH40**



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