



# ESE-M50

## Multipurpose Color Ultrasound System



IMAGING SYSTEMS



# ESE-M50

## Multipurpose Color ultrasound System



With its advanced features and superior image quality designed for women healthcare, the ESE-M50 increases the confidence for all obstetrical, gynaecological and breast exams.

- Innovative, cutting-edge volume imaging processing technology
- First class image quality in OB/GYN application
- Dedicated obstetrical tool package
- 18.5 inch high resolution LED monitor
- 10 inch capacitive touch screen
- Tissue and Phase inversion harmonic imaging
- Vfusion - Spatial Compound Imaging
- Vspeckle - Speckle Reduction Imaging
- Full screen imaging
- Auto optimization
- Auto Trace in PW/CW
- Excellent triplex performance
- STIC (Spatio Temporal Image Correlation)
- Volume calculation tool (VOCAL)

## Innovative RF platform

The revolutionary RF platform removes the need for hardware pre-processing and demodulation of traditional ultrasound platform. This allows all radio frequency signal for computing, which is approximately 40 times of data size than current traditional ultrasound is using, with the advantage of retaining more information and getting more accurate data for post processing. It results in much better image quality in resolution and contrast. This platform also has higher frequency range which can support probe from 1-25MHz.

### HQ (High Quality) 3D/4D rendering

High quality rendering utilize an innovative processing technology, improves spatial resolution and reduces speckle noise.

### SRV (supper resolution volume)

Super resolution volume imaging technology greatly improves contrast resolution. It significantly increase cystic solid lesions diagnostic capability.

### McUT (Tomographic display)

MCUT use all scanned volume data to display 2D image in any angle slice and it also allows to display multiple parallel slices for an easier analysis.

### Auto NT (Auto Nuchal Translucency measurement)

Auto NT automatically detect and report Nuchal Translucency thickness in interest area.

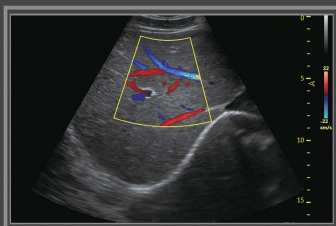
### U5-15L probe

52mm footprint, 256 element Xcen technology wideband super high frequency linear probe U5-15L is dedicated for breast application.

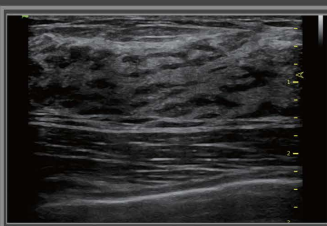
# Clinic Value & Applications



Arterial Intima



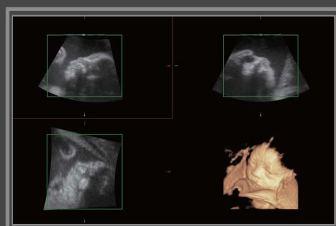
Cavity Probing  
Pregnant Bursa



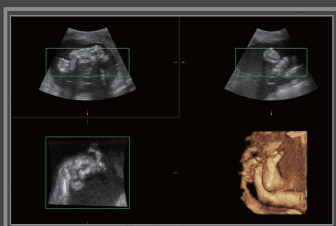
Ductal Extension



Fetus



3D Fetal Face



4D Fetal Foot



Fetus



3D Fetal face

## Tecnical Features

### Standard Main Unit

- Innovative RF platform
- 18.5 inch high resolution monitor
- 10 inch touch screen
- Pulse Wave Doppler & HPRF
- Color/Power/Directional Power Doppler Flow Imaging
- Phase-inversion/ Tissue Harmonic Imaging
- Vfusion (Spatial Compound Imaging)
- VSpeckle (Speckle Reduction Imaging)
- Tview (Trapezoid Imaging)
- VTissue
- Easy Compare
- RF-based Zoom
- Full Screen Imaging
- Triplex 2D/Color/PW
- Auto Optimization
- Auto trace in PW/CW
- B+CF simultaneously
- SGC(scanning gain compensation)
- 500G Hard Disk
- DVD-RW and 4 USB Ports
- B/W video printer slot
- 4 easy access transducer ports (three active and one dummy)
- Patient database
- Quick store

- Network storage and printing
- Auto track in PW/CW
- Vascular calculations
- Cardiac calculations
- OB calculations and tables
- Gynecological calculations
- Urological calculations
- Renal calculations
- Patient database
- Quick store
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- Gynecological calculations
- Urological calculations
- Renal calculations

### Standard Modules

- Smart 3D
- 4D Module
- Tomographic display (Mcut)
- Auto NT (Auto Nuchal Translucency measurement)
- Magic cut
- Inversion mode
- Smart touch panel 3D/4D operation
- Parameter adjustable after freeze in 3D/4D

### Optional Modules

- Physical keyboard
- MAM (multi angle M mode, not available in Germany, France, Italy, Norway, USA, Japan)
- Color M mode (not available in USA, Canada, Australian, Europe, Japan)
- CWD
- Pview
- Elastography imaging
- Contrast imaging
- Needle enhancement
- Wireless kit, wireless connection package (need to be installed in the factory)
- Support Mobile data transmission via Bluetooth and E-Mail (such as 3D/4D baby face)
- HQ (High Quality) 3D/4D
- Spatio Temporal Image Correlation (STIC)
- Free view
- DICOM 3.0 export and storage, printer, worklist

### Optional Transducers

<b>F2-5C</b>	128 element Convex probe
<b>G2-5C</b>	128 element wideband Convex probe
<b>D3-6C</b>	128 element wideband 3D/4D Convex probe
<b>D3-6CX</b>	128 element wideband 3D/4D Convex probe
<b>G4-9E</b>	128 element wideband Endocavity probe
<b>D4-9E</b>	128 element wideband Endocavity 3D/4D probe
<b>G4-9M</b>	128 element wideband Micro Convex probe
<b>X4-12L</b>	192 element Xcen technology wideband high frequency Linear probe
<b>X6-16L</b>	192 element Xcen technology wideband super high frequency Linear probe

<b>U5-15LE</b>	256 element Xcen technology wideband super high frequency Linear probe for breast application, 52mm footprint
<b>F4-12L</b>	128 element wideband high frequency linear probe
<b>G1-4P</b>	64 element Phase Array probe
<b>I4-11T</b>	128 element interoperation Linear probe
<b>G2-5C</b>	resuable stainless Biopsy guide
<b>G1-4P</b>	resuable stainless Biopsy guide
<b>G4-9E</b>	resuable stainless Biopsy guide
<b>X4-12L</b>	resuable stainless Biopsy guide
<b>X4-16L</b>	resuable stainless Biopsy guide
	USB single button foot switch pedal
	USB dual button foot switch pedal



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