ESE-i50

Best choice for B/W Ultrasound System

System Overview

Clinical Applications

Abdomen
Obstetrics
Gynecology
Urology
Cardiology
Small Parts
Vascular

Features

Outstanding portable model,compact and streamlined design
12.1-inch high resolution medical LED monitor with 90 degrees rotation
Two activated transducer connectors
Auto-freezing function
Imaging function: B zoom
One key full screen function
Abundant measurement software packages
Auto-generation BMP format report
Support USB import and export
Laser/Ink Jet printer module optional
Optional built-in lithium battery
Optional trolley and suitcase

Imaging Modes

B, 2B, B/M, M, 4B

Advanced imaging Technology

Exclusive Employ Double Wave Form Imaging Technology
Speckle Noise Reduction Technology
Tissue-specific Imaging Technology
Tissue Harmonics Imaging Technology

Physical Specification

Dimension & weight

Main Unit Dimensions:
155mm×360mm×370mm; 6.0kg
Package Dimensions:
460mm×370mm×565mm ; 11.5kg

Probe Parameters

Convex Array Probe UT-C-3.5
Central Frequency: 3.5MHz
Frequency points: 5
Harmonic frequency: THI4.0MHz,
Abdomen/Obstetric/Gynecology/Urology

Linear Array Probe UT-L-7.5
Central Frequency: 7.5MHz
Frequency points: 5
Harmonic frequency: TH10.0MHz
Small Parts/Vascular

Transvaginal Probe UT-C-6.5
Central Frequency: 6.5MHz
Frequency points: 5
Harmonic frequency: THI8.0MHz
THI9.0MHz
Transvaginal

Micro-convex Probe UT-C-3.5-R20
Central Frequency: 3.5MHz
Frequency points: 5
Harmonic frequency: THI 4.0MHz
Cardiac/Generic/Pediatric

Probe Port & Holder

Probe Ports: 2Activated Ports
Probe Holders: 2 Probe Holders

Electrical power

Input Voltage: AC 100V ~240V
Frequency: 50Hz/60Hz
Input power: 100VA
Fuse: F3.15AL250V (φ5×20 mm)

Operating Environment

Ambient Temperature: +5°C ~+ 40°C
Relative Humidity: 25% ~ 80%
Atmospheric Pressure: 70kpa ~106kpa

Transportation & Storage

Ambient Temperature: -20°C ~ +55°C
Relative Humidity: 10% ~ 95%
Atmospheric Pressure: 50kpa-106kpa

Software Specification

System Setup

Brightness : 0-15
Contrast: 0-15
Gamma Corr.: 0-15
ScreenSaver: Adjustable
Auto Freeze: Adjustable
Horizontal Scale: Adjustable
Vertical Scale: Adjustable
Gray bar: Adjustable

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FSI: Adjustable

Language: Chinese, English,Spanish

Date/Time: Adjustable

Hospital: Adjustable

Factory Reset: Adjustable

Max. Depth: 295mm

Parameters

Gain: 0-100

FPS: Adjustable

M speed: 10-63

Frame Corr. 0-255

Smooth: 0-47

TSI: 0-6

Dyn.Range : Adjustable

Noise Restrain: 0-31

Gray Scale: Adjustable

Focus No.: 4

Focus position: Adjustable

Scan Angle: Adjustable

Pseudo C.: Adjustable

S Power: 55-100

THI: Adjustable

Reverse: Adjustable

Mirror: Adjustable

B/W Invert: Adjustable

Central Line: Adjustable

Biopsy: 0° ,30° ,45° ,60°

Save as custom: Adjustable

App.Type

Abdomen

Gynecology

Obstetrics

Urology

Organ

Cardiology

Body Mark

Abdomen: 10 Adjustable

Gynecology: 4 Adjustable

Obstetrics: 22 Adjustable

Urology: 10 Adjustable

Organ: 24 Adjustable

Cardiology: 13 Adjustable

File Mgmt

Memory: 4G

USB: 2+1

Cine loops: 1024frames

Images: at least 500

Save Image: save to U disk

save to TF card

save to local

Browse Image: U disk

TF card

local

Measurements

Generic

Distance

Area & Cir

Depth

Volume

3 Dist.: Distance1,Distance2,Distance3

Volume Calculate

Ellipse Dist.: Ellipse Area,Distance

Volume Calculate

Ellipse

Angle

Distance1, Distance2, Angle Calculate

Len.Ratio

Distance1,Distance2, Len.Ratio Calculate

Area.Ratio

Area 1, Area 2, Area Ratio Calculate

M Meas.

Distance,Time,Heart rate, EF Slope

Special Meas.

Abdomen

Liver

CHD

PV

GB : GBL,GBH,GBW Thick,CBD

Kidney : Lt Kidney L, Lt K.Thick

Lt K.W, Lt R.C Thick

Lt AG L , Lt AG H, Lt AG W

Rt Kidney L, Rt K.Thick

Rt K.W, Rt R.C Thick

Rt AG L ,Rt AG H, Rt AG W

Spleen

Pancreas: PD, PH, PB, PT

AA , AO

Lliac Artery

Gynecology

Uterus: Uterus L,Uterus H, Uterus W

En Thick

Cervix: CX L, CX H, CX W

Ovary: Lt Ov L, Lt Ov H

Rt Ov L, Rt Ov H

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Follicle: Follicle 1
Follicle 2
Follicle 3
Follicle 4
Follicle 5
Follicle 6
Follicle 7
Follicle 8

Bladder: Full Urine BL L
Full Urine BL H
Full Urine BL W
Empty Urine BL L
Empty Urine BL H
Empty Urine BLW

Prostate : Pro L
Pro H
Pro W
Pro Mass

SV: Lt SV L
Lt SV H
Lt SV W
Rt SV L
Rt SV H
Rt SV W

Testicle : Lt Testicle L
Lt Testicle H
Lt Testicle W
Rt Testicle L
Rt Testicle H
Rt Testicle W
Ur Diam

Organ

Lt Thyroid L
Lt Thyroid H
Lt Thyroid W
Lt Thyroid Mass
Rt Thyroid L
Rt Thyroid H
Rt Thyroid W
Rt Thyroid Mass
Isthmus W
Lt Testicle L
Lt Testicle H
Lt Testicle W
Rt Testicle L
Rt Testicle H
Rt Testicle W
Lt Breast Mass
Rt Breast Mass

Cardiology

Cardiology(2D): LA Major
RA Major
LV Major
RV Major
AV Diam
PV Diam
MV Diam
TV Diam
AV A
TV A

Cardiology(M): LA Diam
LVIDd
LVIDs
RVDd
RVDs
LVPWd
LVPWs
RVAWd
RVAWS
AoDiam
AoAscDiam
Ao Isyhmus
MV E Amp
MV A Amp
Distance
Time
Heart Rate
EF Slope

Obstetrics (Q KEY)

Tokyo: BPD
FL
CRL
AC
GS
TIBIA
ULNA
CER
NT

NF
PL
AF
AFI: AFI1
AFI2
AFI3
AFI4
AFI Calculate
YS
EFW: BPD
APTD
TTD
FL
LMP(YY/MM/DD)
Average EDD
Average EFW

Hadlock: BPD
FL
CRL
HC
AC
TIBIA
ULNA
CER
NT
NF
PL
AF
AFI: AFI1
AFI2
AFI3
AFI4
AFI Calculate
YS
EFW: BPD,FL,AC,HC
EFW Calculate
BPD,FL,AC
EFW Calculate
FL,AC,HC
EFW Calculate
FL,AC
EFW Calculate
LMP(YY/MM/DD)
Average EDD
Average EFW

China: BPD
FL
HC
AC
TIBIA
ULNA
CER
NT
NF
PL
AF
AFI: AFI1
AFI2
AFI3
AFI4
AFI Calculate
YS
LMP(YY/MM/DD)
Average EDD
Average EFW

JSUN 2001:BPD
FL
CRL
AC
TIBIA
ULNA
CER
NT
NF
PL
AF
AFI: AFI1
AFI2
AFI3
AFI4
AFI Calculate
YS
LMP(YY/MM/DD)
Average EDD
Average EFW

TODA196: BPD
FL
CRL
AC
TIBIA
ULNA

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CER
NT
NF
PL
AF
AFI: AFI1
AFI2
AFI3
AFI4
AFI Calculate
YS
LMP(YY/MM/DD)
Average EDD
Average EFW

HAD84: BPD
HC
AC
TIBIA
ULNA
CER
NT
NF
PL
AF
AFI: AFI1
AFI2
AFI3
AFI4
AFI Calculate

Shepard: BPD, AC
EFW Calculate

System Inputs & Outputs

USB :
Connect to Devices that Abide by the USB Protocol

Video:
Output video signals,used to connect video, printers,ultrasound workstation, ect;

VGA Port:
Serial port;

Ethernet Port:
Network ports ,used to connect the network or other DICOM protocol equipment;

Equipotential:
Balance the protective grounded potential;

DC IN:
DC-19V

Power Switch:
Turn on/off the system power

Standard Package

Main Unit
One probe as standard
Power cord/grounding cable
Fuse (2)
User's Manual
Coupling Gel (0.25L)

Optional Accessories

Convex Array Probe UT-C-3.5
Linear Array Probe UT-L-7.5
Transvaginal Probe UT-C-6.5
Micro-convex Probe UT-C-3.5-R20
Micro-convex Probe UT-C-5.0-R20
USB disk
Suitcase
Lithium battery
Pedal Switch
Biopsy
Trolley

Certificates

Quality Standards
ISO9001
CMD
ISO13485
CE

CE Declaration

ZONCARE-i50 has been assessed with respect to the conformity assessment procedure described in Article 11.3.a and Annex II excluding section 4 (Module H) of Council Directive 93/42/EEC on Medical Devices, as amended, and found to comply *(Notified Body No.:2460)*

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