Hisense Medical

Intelligent Future In Your Hand

Qingdao Hisense Medical Co.,Ltd.
address:No.399,Songling Road., Laoshan,Dist.,QingDao,China.Landline:
+86-352-55753858 Website:http://medical.hisense.com/

Hisense Medical

Make Diagnosis
Much Easier

HD80

Intelligent General Imaging Ultrasound

Intelligent Future In Your Hand

HD80

Intelligent General Imaging Ultrasound

HD80, the new ultrasound series released by Hisense Medical. New imaging platform HPower, CPU&GPU collaborative architecture, new designed core composition of system, software beamforming, work together and make computing power of ultrasound unit exponential increase. It gains you a higher image uniformity and spatial resolution, and increases the image quality and accuracy of every high-end imaging function.

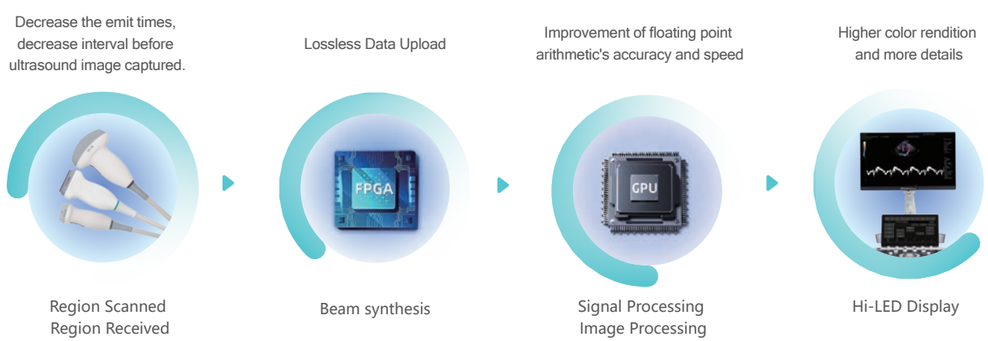
Intelligent Future In Your Hand

- Brand-New Platform
- Intelligent Workflow
- Intelligent Measurement
- Intelligent Diagnosis
- Intelligent Eye

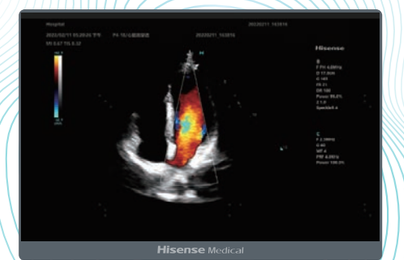
Excellent imaging

One new generation of Hpower platform

Hisense ultrasound use new imaging platform HPower with advanced CPU&GPU collaborative architecture loaded, achieve software beamforming, significantly enhance data upload and floating point arithmetic through wide-area imaging tech, make accuracy and speed of signal processing improve greatly. All of this finally create the images with much higher uniformity, resolution and frames per second.



2nd Generation Hi-LED HD Medical Monitor



Borderless Screen Design

Screen-to-body Ratio Reach **88.3%**

Faster Response

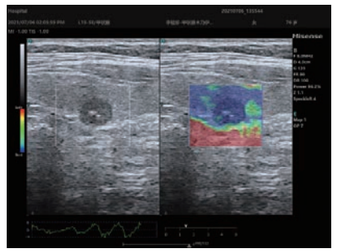
Smoother screen, faster Response,
36% better thanlast generation

Intelligent Eye-protection

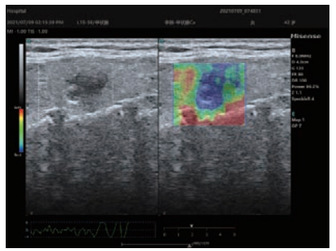
Use eye-protection tech, including
no photo screen flash and anti blue-ray

Advanced Function

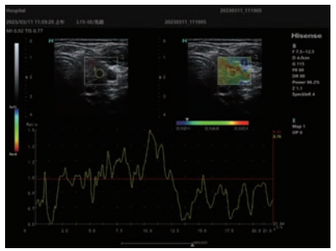
Elastic Imaging



Elastic Imaging - 1



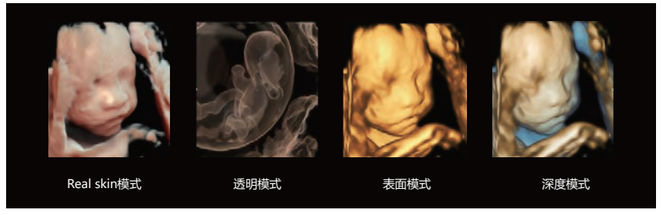
Elastic Imaging -2



Elastic Imaging Quantitative Analysis

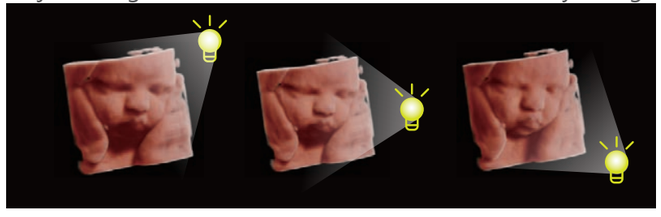
3D/4D Imaging

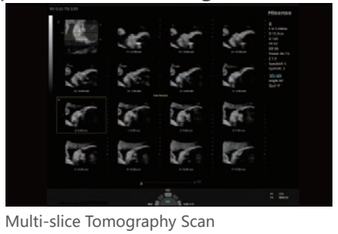
Rich rendering modes, which could adapt different scenes of ob exam.



Free Anatomical Section

Projection light source: Gain different shadow effect by changing position of virtual light source.

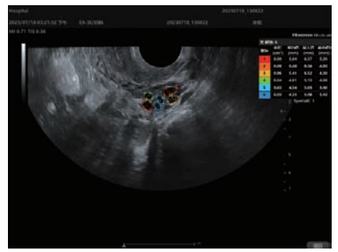




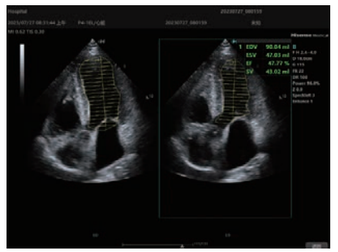
Multi-slice Tomography Scan

Intelligent Measurement

Auto UM Hysteromyoma Auto Measurement



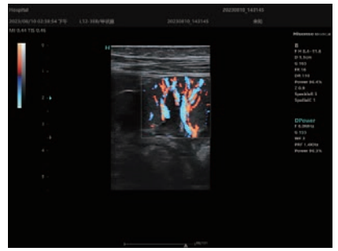
Auto FLC Follicle Auto Measurement



Auto EF Cardiac Function Auto Measurement

Advanced Blood Flow Imaging

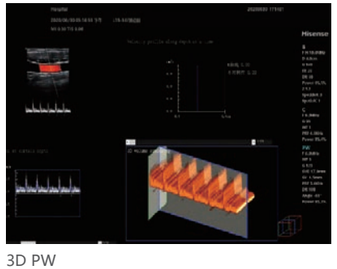
High Resolution Blood Flow



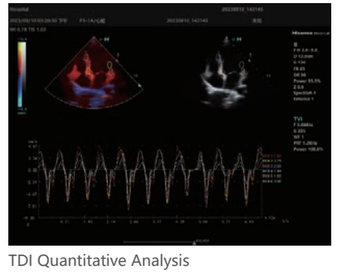
Elaboration Blood Flow

3D Blood Flow

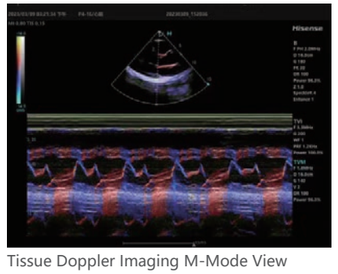
Unique Technology



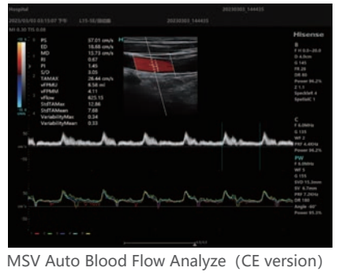
3D PW



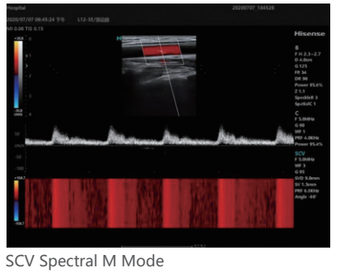
TDI Quantitative Analysis



Tissue Doppler Imaging M-Mode View



MSV Auto Blood Flow Analyze（CE version）



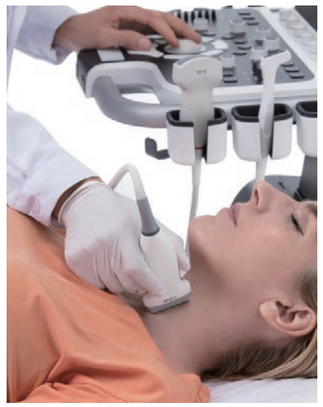
SCV Spectral M Mode

Solutions

Solution for General Medical Examination

Intelligent Examination
Comprehensive and Efficiently

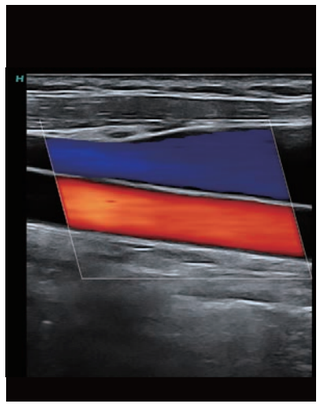
- Clear imaging, High-efficiency Exam
- Comprehensive, Easily, Efficient
- Considerate Design, High Accessibility
- Self-learning, Instantly Improvement



Solution for Geriatric Medical Examination

Intelligent Examination Simple,
and Easy to use

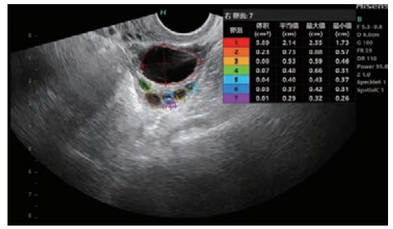
- Simple, Easy to use, Efficient process
- Considerate Design, High Accessibility
- Teaching System, High-efficiency Exam



Solution for Genital Application

Intelligent Auxiliary
Precise Measurement

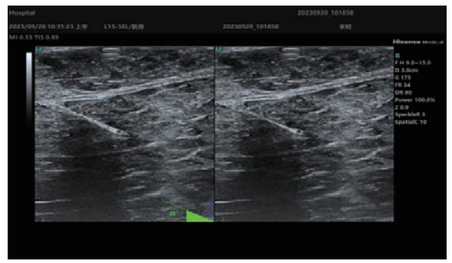
- Intelligent Measurement,
  Quantitative Evaluation
- Specialized Probe, Easy to Use
- Extra Wide Angle, Scan Easily



Solution for Musculoskeletal Application

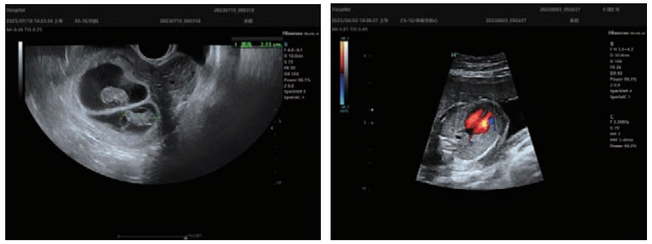
High Frequency Probes
Excellent Imaging

- Diversely Profession Probe design
- Ultra-wide Bandwidth, Clear Image
- Puncture Enhancement, Angle Indicator



Solution for Gynaecology and Obstetrics Application

Care for Women
Intelligent Measurement



- Considerate Design, High Accessibility
- Intelligent Measurement, Convenience and Efficient
- Teaching System, High-efficiency Exam

Flexible & Convenient to Move

Efficient Experience at Your Fingertips

Comfortable and easy to operate

Unique man-machine engineering design, electric lifting,rotationally adjustable control panel, gain you comfort-ableoperating experience, and have a higher work efficiency。Adjustable Height Allows Doctors of Differnt Height to Pereform Scan when Stand.

Diversified Probe Type

- Comprehensive Probe Series cover All Clinical Application
- Single Crystal Probe, High Penetration and High Resolution in One Probe
- Single Crystal Probe, High Penetration and High Resolution in One Probe
- Improve Your Diagnosis Confidence

Hisense Ultrasound HD80 DataSheet

1 Intended Use: For ultrasound diagnosis in abdominal, obstetric, gynecologic, cardiac, small organ, urologic, vascular, pediatric, emergency, anesthesiology, musculoskeletal and other clinical departments.

2 Equipment: Latest models launched with upgradability to meet future clinical application expansion needs.

3 Main Specifications and System Overview

3.1 System Overview

3.1.1 23.8-inch high-resolution medical-grade color LCD monitor

3.1.2 13.3-inch high-sensitivity anti-glare color touchscreen with touchscreen projection capability

3.1.3 Control panel with independent rotation and motorized height adjustment

3.1.4 Integrated host-mounted coupling agent heater

3.1.5 I5 processor, 4GB RAM， GPU core processing module for reduced signal loss, enhanced computational speed, and domain-specific processing/imaging

3.1.6 2D grayscale imaging

3.1.7 Harmonic imaging

3.1.8 M-mode and M+CDFI mode

3.1.9 Anatomical M-mode with 3 adjustable sampling lines

3.1.10 Curved anatomical M-mode **（Optional）**

3.1.11 Color Doppler imaging (including Color, Power, and Directional Power Doppler)

3.1.12 Spectral Doppler imaging： PW, HPRF **（Optional）**, CW

3.1.13 Spatial compound imaging

3.1.14 Speckle noise reduction imaging

3.1.15 Frequency compound imaging

3.1.16 Independent beam steering

3.1.17 Extended field imaging

3.1.18 Real-time dual-screen comparative imaging (2D/Color)

3.1.19 Tissue-specific imaging optimization

3.1.20 High-definition zoom (regional/full-screen)

3.1.21 One-touch image optimization for 2D, Color, and Spectral modes

3.1.22 Micro flow imaging (MFI) **（Optional）**

3.1.23 Tissue Doppler imaging(TDI) & Quantitative Analysis(TDI QA) **（Optional）**

3.1.24 Biopsy enhancement:needle enhancement technology with adjustable needle gain and dual-screen real-time comparison (enhanced vs. non-enhanced) **（Optional）**

3.1.25 Puncture guidance with multi-angle adjustable guidelines, positional calibration, and midline co-display capability **（Optional）**

3.1.26 SCV **（Optional）**

3.1.27 3D spectral imaging for spatial visualization of blood flow velocity distribution(3DPW) **（Optional）**

3.1.28 Elasto and Elasto Analysis, Elasto(Shear waves) **（Included）**

3.1.29 Contrast imaging **（Optional）**

3.1.30 Strain rate imaging **（Optional）**

3.1.31 Freehand 3D Imaging

3.1.32 Multi-sample gate blood flow analysis(MSV): Simultaneous placement of multiple sample volumes within single vessel with automatic flow parameter calculation (image evidence required) **（Optional）**

3.1.33 Ribbon flow imaging **（Optional）**

3.1.34 Color Doppler auto-tracking function **（Optional）**

3.1.35 Panoramic Imaging, including 2D Panoramic, Color Panoramic, Power Panoramic **（Included）**

3.1.36 3D/4D Imaging **（Included）**

3.1.37 Image demonstration

3.1.38 Automated workflow (Hi-Step) **(Optional)**

3.1.39 Middle line

3.1.40 Monitor Share **（Included）**

3.1.41 Teaching software **（Included）**

3.1.42 DVR **（Included）**

3.1.43 Digital storage

3.1.44 Comments and body position maps

3.1.45 ECG **（Optional）**

3.2 Measurement & Analysis

3.2.1 Conventional measurements

3.2.2 Specialized measurement packages for abdominal, cardiac, small organ, vascular, urologic, gynecologic, obstetric, and pediatric applications

3.2.3 Automatic spectral envelope analysis for hemodynamic parameters

3.2.4 Automatic IMT measurement **（Included）**： simultaneous anterior/posterior wall tracing and measurement in single frame

3.2.5 Auto NT measurement **（Included）**： nuchal translucency auto-measurement

3.2.6 Auto EF measurement **（Optional）**： automatic endocardial border detection and cardiac function measurement

3.2.7 Auto OB measurement **（Included）**： obstetric auto-measurement software

3.2.8 Auto SP measurement **（Included）**： obstetric auto-measurement includes at least one type of view of HC view, AC view or FL view

3.2.9 Auto AFI measurement **（Included）**： amniotic fluid index auto-measurement

3.2.10 Auto UM **（Optional）**： gynecological uterine fibroid auto-measurement (intracavity probe compatible)

3.2.11 Auto CNS measurement **（Optional）**： BPD, OFD, HC and HW auto-measurement

3.2.12 Auto FLC measurement **（Included）**： follicle auto-tracking

3.2.13 Auto Pelvic measurement **（Optional）**： pelvic floor auto-measurement

3.2.14 Auto BL measurement **（Optional）**： bladder volume auto-calculation

3.2.15 Auto Hip measurement **（Optional）**： pediatric hip joint auto-measurement

3.2.16 Auto MSK measurement **（Optional）**： musculoskeletal auto-measurement

3.2.17 Nodule measurement **（Optional）**： for breast measurement in time

3.2.18 IVF application

3.2.19 Offline analysis

3.3 Cine Review & Raw Data Processing

3.3.1 Available in all modes with manual/auto playback, backward/forward storage (presettable duration), and image comparison (dynamic/static)

3.3.2 Adjustable cine loop speed

3.3.3 Raw data reprocessing capability for parameter adjustment during review

3.3.4 Up to 113664 single frame images can be stored

3.4 Data Storage & Management

3.4.1 1TB HDD + 256GB SSD storage

3.4.2 Integrated ultrasound workstation： patient record management; storage image files, movie files, patient examination reports, and data import/export; patient information management

3.4.3 Multiple export formats: DICOM/PC-compatible formats for direct viewing without specialized software. Real-time operation maintained during data export/backup

3.4.4 One-touch image archiving

3.4.5 Hi-mobile **（Optional）**

3.5 Connectivity

3.5.1 Network connectivity with built-in WiFi **（Optional）**

3.5.2 DICOM 3.0 compliant

3.5.3 Video/audio I/O ports (VGA/HDMI/S-Video)

3.5.4 6 USB ports

3.5.5 Has a built-in battery backup that lasts for 30 minutes **（Optional）**

4 System Technical Specifications

4.1 General System Features

4.1.1 23.8-inch high-resolution color LCD monitor， resolution1920*1080,viewing angle 178°, adjustable brightness and contrast

4.1.2 13.3-inch high sensitivity anti-glare color touchscreen,resolution1920*1080， viewing angle 170°, adjustable brightness and contrast

4.1.3 Liftable and rotatable control panel

4.1.4 4 fully active interchangeable transducer ports

4.1.5 DVD R/W Drive, video recording **（Included）**

4.2 Transducer Specifications

4.2.1 Available types: Phased array, convex, linear, endocavitary, volume, microconvex

4.2.2 Broadband frequency-agile transducers with independent frequency tuning for 2D/harmonic/Doppler/Color modes

4.2.3 Abdominal convex, single crystal, bandwidth: 1.5-7.1 MHz

4.2.4 Linear, bandwidth: 3.6-13.9 MHz, trapezoid

4.2.5 Linear, bandwidth: 3.8-19.3 MHz, trapezoid **（Optional）**

4.2.6 Intracavity, bandwidth: 2.8-9.8 MHz

4.2.7 Volume probe, bandwidth: 2.0-7.1 MHz

4.3 2D Grayscale Imaging

4.3.1 Preset configurations optimized for specific anatomical structures

4.3.2 5-step fundamental frequency tuning

4.3.3 3-step harmonic frequency tuning
4.3.4 Independent B/M/D gain adjustment (0-255dB)
4.3.5 18 grayscale maps
4.3.6 Max penetration depth: ≥42cm
4.3.7 Maximum frame rate: 2500f/s
4.3.8 8-band TGC
4.3.9 8-band LGC
4.3.10 Dynamic range: 30-320dB or wider, frequency response range of the main unit: 1-21 MHz or wider
4.3.11 Continuous dynamic transmit focusing with 16 focal zones display
4.3.12 Digital beam enhancer Multifold beam synthesis
4.3.13 Digital channel 14745600
4.3.14 256-Gray Scale Two-Dimensional Imaging System

4.4 Color Doppler
4.4.1 Velocity, variance, power, directional power display modes
4.4.2 Display formats: B/C, B/C/M, B/Power, B/C/PW
4.4.3 Steering angle: ±20° (linear probes)
4.4.4 High-resolution flow imaging
4.4.5 3D flow visualization

4.5 Spectral Doppler
4.5.1 PW/CW modes
4.5.2 Display formats: B, PW, B/PW, B/C/PW, B/CW, B/C/CW
4.5.3 Display controls: Invert, baseline shift, B-refresh, D/B-extension
4.5.4 Min velocity detection: 0.05 cm/s
4.5.5 Sample volume: 0.5-30mm
4.5.6 Baseline shift: 18 levels
4.5.7 Adaptive wall filters synchronized with PRF adjustment

5 Others
5.1.1 Rated operating voltage: 100-240 V, 50/60 Hz
5.1.2 Weight about 94KG(not including battery)
5.1.3 Language: English and Chinese

Hisense Medical

Probe Catalog for HD80 series

2026.03

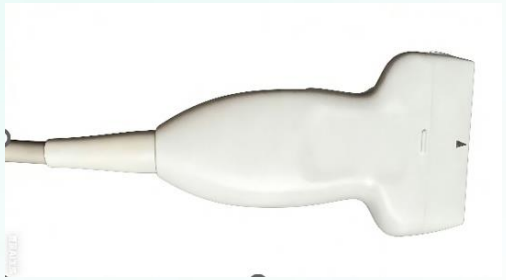
Convex Array Probe

Hisense Medical

Model	Description
SC7-1E (Single crystal) 	- Application: Abdominal, Gynecology, Obstetrics, Pediatrics, Urology, Peripheral Vascular System, Small Organs (excluding the eyes) - Bandwidth: 1.5-7.1MHz - Number of elements: 160 - Maximum scan range: 64° (with extension 86°) - Curvature radius: 55.2mm
C5-1E 	- Application: Abdominal, Gynecology, Obstetrics, Pediatrics, Urology, Peripheral Vascular System, Small Organs (excluding the eyes) - Bandwidth: 1.5-6.4MHz - Elements: 192 - Curvature radius: 60mm

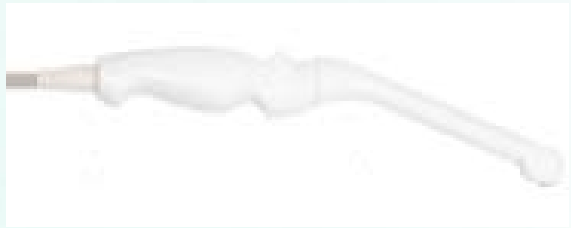
Linear Array Probe

Hisense Medical

Model	Description
L12-3EB 	- Application: Abdomen, Superficial tissues, Small organs (excluding eyes), Peripheral blood vessels, Musculoskeletal system, Nervous system, Obstetrics - Bandwidth: 3.6-13.9MHz - Elements: 192 - Curvature Radius: 38.5mm
L15-5EL 	- Application: Abdomen, Superficial tissues, Small organs (excluding eyes), Peripheral blood vessels, Musculoskeletal system, Nervous system, Obstetrics - Bandwidth: 3.8-19.3MHz - Elements: 256 - Curvature Radius: 51mm

Endo-cavity Probe

Hisense Medical

Model	Description
E9-3E 	- Application: Gynecology, Urology, Transvaginal, Transrectal - Bandwidth: 2.8-9.8MHz - Elements: 192 - Scan Angle: 178° (with an extended range of 180°)

Volume Array Probe

Hisense Medical

Model	Description
DC7-2A 	- Application: Abdominal, Gynecology, Obstetrics, Pediatrics - Bandwidth: 2-7.1MHz - Elements: 192 - Curvature Radius: 40mm