CCB-C300 (PE582 V3.0)
# High-end portable color Doppler ultrasound

Main specifications and system overview

Configuration:

1）Full-Digital 2D gray scale imaging

2）Full-Digital Tissue Harmonic Imaging (THI)

3）Color Doppler blood flow imaging

4）Directional color energy Doppler imaging

5）Pulse Wave Doppler imaging (PW)

6）Continuous Wave Doppler imaging (CW)

7）Space compound imaging

8）Trapezoidal imaging

9）2D, color, Doppler mode automatic optimization adjustment technology

10）Real-time triple synchronizing

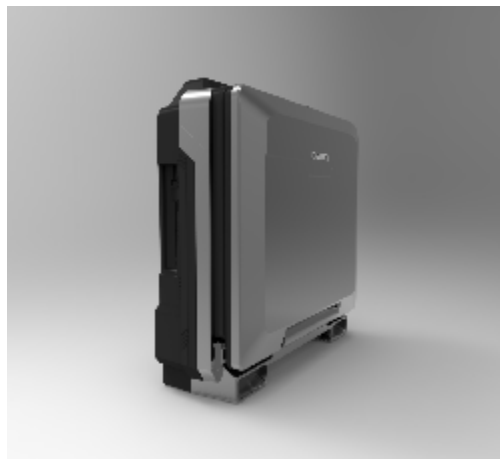11）Adaptive speckle suppression technology

12）Real-time 3D imaging
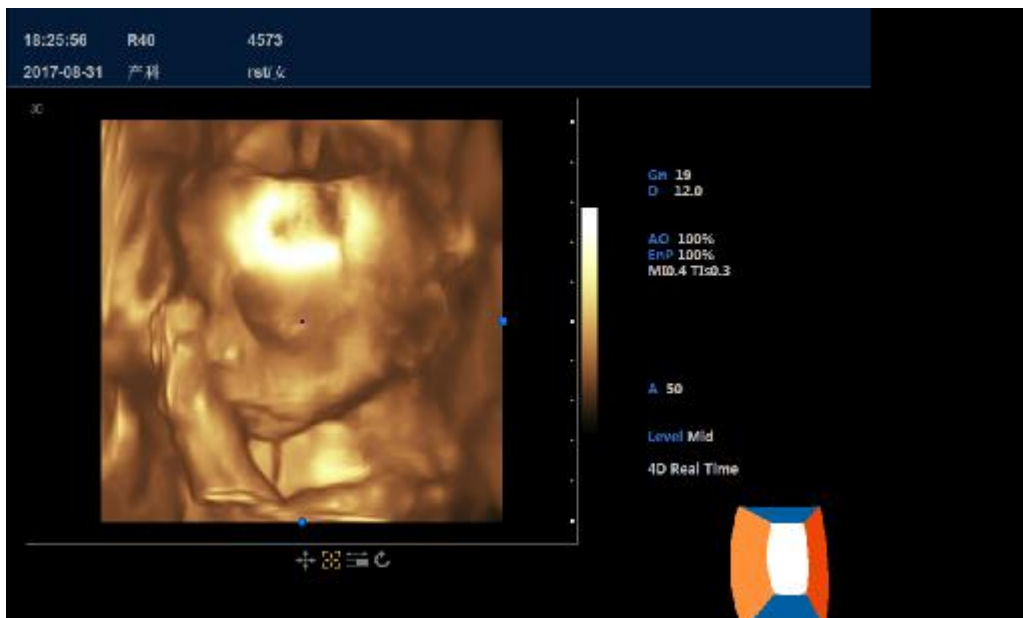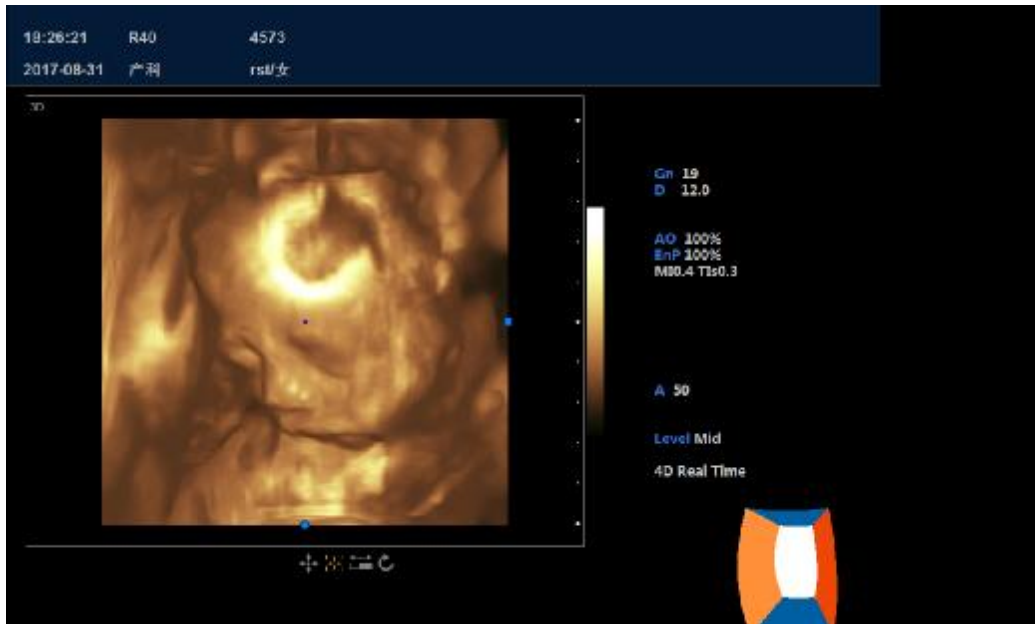
13）Intelligent picture - in - picture imaging mode (PIP)

14）Monitor: 15 inch high resolution medical LCD monitor, adjustable angle

15）Probe connectors: ≥2 active

1 Multiple probe configuration:

1.1 Convex probe frequency: 2.0-5.0MHZ （ multi-frequency, Harmonic frequency≥5 ）, probe scanning angle 20°～85°, visible and adjustable.

1.2 Linear probe frequency: 6.0-12.0MHZ （multi-frequency, harmonic frequency ≥4 ）, probe scanning with trapezoidal imaging technology and 2D beam deflection technology

1.3 Trans-vaginal probe frequency: 5.0-9.0MHZ （ multi-frequency, harmonic frequency ≥2 ）, probe scanning angle 20°～160°, visible and adjustable.

1.4 Real time 3D (4D) volume probe frequency: 2.0-6.0MHz, 4 segments multi-frequency.

1.5 Phased array probe frequency: 2.5-4.0MHz, 3 segments multi-frequency.

Applications: abdominal, urology, OB&GYN, paediatrics / neonatal, superficial / small organ, musculoskeletal, cardiology etc.
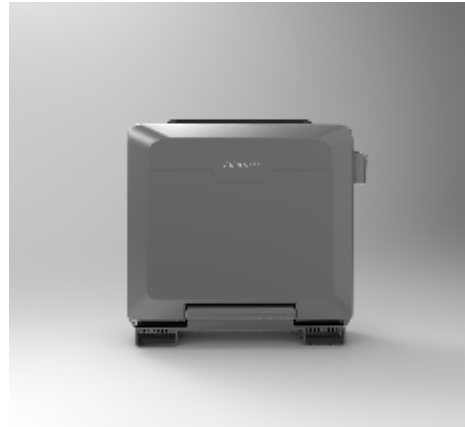
Main technical specification

2 2D imaging mode

2.1 Gray scale: 256

2.2 Gray Map: ≥16 level, visible and adjustable

2.3 Dynamic range: 20-280db（visible and adjustable）

2.4 Resolution: Horizontal≤1mm; Vertical≤0.5mm

2.5 Under B mode, focus number: 1-6, focus position continuously adjustable

2.6 STC gain control ≥8 segments

2.7 THI: harmonic frequency ≥2 segments

2.8 Line density: ≥256, visible and adjustable

2.9 Preset: ≥40 kinds, users can customize the inspection conditions for the optimized images of different organs

2.10 Max scanning depth: ≥31cm, visible and adjustable

2.11 Scanning angle: 50°-100°, visible and adjustable

2.12 Cine loop ≥4800 frames

2.13 Adaptive speckle suppressio: 0-100 adjustable

2.14 Amplification: overall amplification, local amplification, M-type amplification （do M-type sampling amplification under both scanning or freeze state）

3 Color blood flow imaging mode:

3.1 Color gain: adjustable

3.2 Color frequency: ≥3 kinds, visible and adjustable

3.3 Sampling frame: size and position adjustable

3.4 Color blood flow steer: ≥3 angles adjustable

3.5 Color map: 1—9 level

3.6 Color persist: 0—6 level

3.7 B/C split display: available

4 Engery Doppler:

4.1 Directional Energy Doppler: available

4.2 Engery Doppler Gain: adjustable

4.3 B/C split display: available

4.4 Engery chart: 1—8 level

4.5 Engery persist: 0—6 level

5 Doppler mode：

5.1With Pulse Wave Doppler (PW) and Continuous Wave Doppler (CW)

5.2 PW blood flow measurement speed: min speed: ≤0.2 cm/s, max speed: ≥1500cm/s

5.3 CW blood flow measuremnet speed: min speed: ≤0.6cm /s , max speed: ≥7000cm/s

5.4 Sampling volume size: 1mm-20mm, visible and adjustable

5.5 Sampling angle correction: -80—80 °

5.6 Spectral Gain: adjustable

5.7 PW Doppler frequency: ≥3 kinds, CW Doppler frequency: ≥15 kinds, visible and adjustable

5.8 Real-time automatic Doppler envelope mapping and automatic measurement and analysis

5.9 Baseline: Zero shift adjustable

6. Measurement and analysis:

6.1 General measurement

6.2 OB&GYN measurement

6.3 Cardiac function measurement and analysis

6.4 Doppler blood flow measurement and analysis

6.5 Peripheral blood vessel measurement and analysis

6.6 Urology measurement and analysis

6.7 Orthopedic measurement and analysis

6.8 Automatic Doppler flow measurement and analysis

6.9 Users can programme protocol numbers, formulas and tables

7 Built-in graphic management system

7.1 Diagnostic report editable, embed the ultrasound diagnostic image in the report, and print directly

7.2 Hard disk static and dynamic image storage 560G capacity

7.3 Image storage format: ≥4 kinds

7.4 Input / output interface: HDMI port, video input/output port, S-VGA, print port, DICOM 3.0,USB port

Package: