

DW-T60 Technical Parameters



1:	Summary of main specifications and system of cart type color Doppler ultrasound
1.1	Trolley type all digital color Doppler ultrasonic mainframe
1.2	Ultrasonic host operating system: Windows operating system
1.3	Applications: Abdomen, obstetrics, gynecology, heart, urinary system, small organs, superficial, blood vessels, pediatrics, newborns, musculoskeletal
1.4	Probes: Convex probe, Tran-vaginal probe, Linear probe, Micro-convex probe, Cardiac probe, 4D Volume probe
1.5	Applications and report: Abdominal, OB, GYN, Cardiac, Urinary, Small Parts, Superficial, Vascular, Pediatrics, Advanced measurement software packages, report software packages, case management software packages, etc.
☆1.6	carotid artery intima measurement thickness (IMT)
☆1.7	Automatic spectral envelope measurement
1.8	Full digital transmission and reception of beam synthesizer
1.9	Color Doppler imaging (C)
1.10	Pulse Doppler Imaging (PW)
☆1.12	Coherent Contrast imaging (CCI)
1.12	Continuous wave Doppler imaging (CW)

☆1.13	B/C/D Real-time three synchronous imaging
☆1.14	Power Doppler imaging (PDI)
☆1.15	Direct power Doppler imaging (DPDI)
1.16	M mode imaging
☆1.16	Anatomic M mode imaging
☆1.17	Color Doppler M mode imaging
☆1.18	Elastography
☆1.19	Tissue Doppler imaging (TDI)
☆1.20	Strain rate imaging (SRI)
1.21	Tissue harmonic imaging (THI)
1.23	Fusion harmonic imaging (FHI)
1.24	Speckle Reduce imaging (SRI)
☆1.25	Panoramic imaging
☆1.26	Deflection imaging
☆1.27	Trapezoidal imaging
1.28	Adaptive velocity optimization
☆1.29	Free hand 3D
1.30	Real time 4D imaging(optional)
1.31	DICOM3.0
1.32	Monitor: 21.5 inch medical LED screen+13.3 touch screen, support multi-touch
1.33	Resolution:very high definition ultrasonic display
1.34	Physical clipboard: save the image on the left side of the screen, which can be directly saved or deleted.
1.35	The system has the function of on-the-spot upgrade
1.36	Presupposition: for different inspection of the viscera, preset the inspection conditions for the best image, reduce the adjustment of the operation, and the commonly used external adjustment and combination regulation.
1.37	Probe interface: 4 all activated, the same size, interoperability
1.38	Chinese, English, French, Spanish, Russian, German, Arabic, Portuguese, Vietnamese, Indonesian interface
2:	Probes
2.1 Convex probe	Fundamental Frequency: 2.0MHz/2.3MHz/2.5MHz/3.0MHz/3.5MHz/4.0MHz/4.6MHz/5.0MHz/5.5MHz, Harmonic Frequency: 4.0MHz/4.6MHz/5.0MHz,
2.2 Linear probe	Fundamental Frequency: 4.0MHz/4.6MHz/5.0MHz/6.0MHz/7.0MHz/8.0MHz/9.2MHz/10.0MHz/12.0MHz/13.3MHz, Harmonic Frequency: 8.0MHz/9.2MHz/10.0MHz,
2.3 Trans-vagi	Fundamental Frequency: 3.0MHz/3.5MHz/4.0MHz/5.0MHz/5.4MHz/6.0MHz/7.0MHz/8.0MHz/10.0MHz,

nal probe	Harmonic Frequency: 6.0MHz/7.0MHz/8.0MHz,
2.4 Micro-conv ex probe	Fundamental Frequency: 3.0MHz/3.5MHz/4.0MHz/5.0MHz/5.4MHz/6.0MHz/7.0MHz/8.0MHz, Harmonic Frequency: 6.0MHz/7.0MHz/8.0MHz,
2.5 Cardiac probe	Fundamental Frequency: 1.5MHz/1.9MHz/2.1MHz/2.5MHz/3.0MHz/3.4MHz/3.8MHz/4.2MHz/5.0MHz, Harmonic Frequency: 3.4MHz/3.8MHz/4.2MHz,
2.6 4D Volume probe	Fundamental Frequency: 2.0MHz/2.5MHz/3.0MHz/3.3MHz/3.7MHz/4.0MHz/5.0MHz/6.0MHz, Harmonic Frequency: 4.0MHz/5.0MHz/6.0MHz,
3:	2D imaging mode
3.1	Digital sound beam former
3.2	Digital full-course dynamic focusing, digital variable aperture and dynamic apodization, A/D \geq 15 bit
3.3	Receiving mode: transmitting and receiving channels \geq 1024, parallel processing of multiple signals
3.4	Scanning line: line density per frame \geq 512 ultrasonic lines
3.5	Focusing of the emitted sound beam: emission \geq 10 segments, the focus position has a special menu adjustment
3.6	TGC \geq 8 segments
3.7	Gain adjustment: B/M/D are independently adjustable, \geq 100dB
3.8	★Dynamic range adjustment: \geq 170dB
3.9	★Maximum display depth \geq 360mm
3.10	Grayscale: \geq 67 levels, visually adjustable
3.11	Sound power: 1%-100%
3.12	Two-dimensional independent deflection of linear array probe
3.13	Partial zoom (1.5/2.0/2.5/3.0/3.5, 4.0/4.5/5.0/10 times)
4:	Color Doppler imaging mode
4.1	Imaging method: including speed, speed variance, energy, direction energy display, etc.
4.2	Display mode: B/C, B/C/M, B/POWER, B/C/PW
4.3	Linear density \geq 3 level
4.4	Color hiding technology: can hide the color without returning to the 2D mode, only display the color speed scale
4.5	Blood flow distribution diagram function, color blood flow profile diagram to measure intravascular velocity
5:	Spectrum wave Doppler (PW;CW)
1	Display format: full screen, duplex/triple work (PW only)
5.2	Gain: \geq 100dB
5.3	Spectrum speed: \geq 4 levels adjustable

5.4	Maximum measurement speed: PWD: forward or reverse blood flow speed $\geq 7.6\text{m/s}$; CWD: blood flow speed $\geq 19.0\text{m/s}$, minimum speed: $\leq 5\text{ mm/s}$ (non-noise signal);
5.5	Zero movement: ≥ 8 levels
5.6	Display mode: B, PW, B/PW, B/C/PW, B/CW, B/C/CW, etc.
5.7	Spectrum automatic measurement, manual measurement
5.8	Display control: reverse, zero shift, B refresh, D expansion, B/D expansion, etc.
5.9	Intelligent Doppler technology, can switch freely between real-time B+CFM mode and real-time PW mode.
6:	Real-time 4D imaging(Optional)
6.1	Four-dimensional imaging modes: surface mode, maximum mode, minimum mode, perspective mode, etc.
6.2	Display mode: single frame, double frame, four frame.
6.3	Cutting function:
6.4	Transparency 1-509: 10 levels adjustable
6.5	Threshold value 0-129
6.6	Smooth ≥ 4
6.7	Store pictures, movies, and volume data in four-dimensional format
★7:	Anatomical M imaging
7.1	Support probe: Convex probe, Linear probe, Cardiac probe
7.2	Adjustment of B mode parameters is switchable
7.3	Gain: 0-100, Step 2
7.4	M Sampling line angel is adjustable
7.5	M Sampling line length is adjustable
7.6	Sampling line: 3, Can be displayed or hidden separately
★8:	Blood flow M model (MC)
8.1	Adjustment of B mode parameters is switchable
8.2	Gain: 0-100, Step2
8.3	MC Sampling line angel is adjustable
8.4	MC Sampling line length is adjustable
8.5	Frequency: 4 level
8.6	Sampling number: 6-24
8.7	Speed through: 0-8, 8 level
8.8	Scan velocity: 150-500
8.9	Frame correlation: 0-6, 6 level
8.10	Filtering: 1-6, 6 level
8.11	Blood flow preferred: 0-8, 8 level
8.12	Smooth treatment: 0-4, 4 level
8.13	Map: 0-37, 37 level

★9:	Elastography
9.1	Adjustment of B mode parameters is switchable
9.2	Gain: 0-100, Step 2
9.3	B/E, Double real-time display on the same screen
9.4	Probe displacement curve display: Up/Down
9.5	Pressure indicator bar display
9.6	Frequency: 8-9 level, Adjustable; According to the probe display
9.7	Noise reduction: 0-2, 2 level
9.8	Frame correlation: 0-3, 3 level
9.9	Comparison: 0-13, 13 level
9.10	False color: 0-3, 3 level
9.11	Don't support cardiac probe
★10:	Tissue Doppler imaging (TDI)
10.1	Support probe: Cardiac probe
10.2	Adjustment of B mode parameters is switchable
10.3	Gain: 0-100, step 2
10.4	ROI area adjustable
10.5	Sampling number: 6-24
10.6	Velocity: 0.4K-8.0K
10.7	Frame correlation: 0-6, 6 level
10.8	Tissue preferred: 0-7, 7 level
10.9	Frequency: 2.0MHz/2.3MHz/2.5MHz/3.0MHz
10.10	Support color reversal
★11:	Strain rate imaging
11.1	Support probe: Cardiac probe
11.2	Adjustment of B mode parameters is switchable
11.3	ROI area adjustable
11.4	Gain: 0-100, Step 2
11.5	Sampling number: 6-24, 6 level
11.6	Axial average: 1-4, 4 level
11.7	Velocity: 0.4K-8K
11.8	Frame correlation: 0-6, 6 level
11.9	Tissue optimization: 0-7, 7 level
★12:	Panoramic imaging
12.1	Display length under high resolution can reach up to 50cm
12.2	When imaging, it can support forward erasing and writing without re-imaging

12.3	With two-dimensional wide-view and color wide-view imaging modes
☆13:	Needle enhancement
13.1	Needle threading angle and position can be adjusted
13.2	Two guiding modes including puncture line and puncture guide range
☆14:	Trapezoidal imaging
14.1	Probe support: linear probe
14.2	Adjustment of B mode parameters is switchable
14.3	Deflection angel: 8 level
14.4	Speckle reduction: 0-5, 5 level
14.5	Dynamic rate: 30-170, Step 5
14.6	Line density: low-middle-high, 3 level
14.7	Frame Correlation: 0-4, 4 level
14.8	False color: 0-67, 67 level
14.9	Image style: Soft-Comparison, 2 level
14.10	Noise reduction: 0-5, 5 level
14.11	Edge Enhancement: 0-5, 5 level
14.12	Sound power: 2-10, 8 level
14.13	Grey map: 0-67, 67 level
14.14	Space Synthesis: 0-2, 2 level
☆15	Freehand 3D imaging
15.1	Support probe: convex probe, linear probe
15.2	Display model: 4 pictures
15.3	Image Rotation X/Y/Z Axis
15.4	Multi-slice Visibility
16:	Extended Imaging
16.1	Gain: 0–100, Step 2
16.2	TGC: 8 segment adjustable
16.3	Maximum focus point: ≥ 7 , which can be moved throughout the whole process.
16.4	Speckle reduction: 0-5, 5 level
16.5	Space Compound: 0-2, 2 level (Linear probe: 3 level, don't support cardiac probe)
16.6	Dynamic range: 30-170, 35 level, Step 5
16.7	Line density: Low、Middle、High, 3 level
16.8	Frame correlation: 0-4,4 level
16.9	Noise reduction: 0-5, 5 level
16.10	Edge enhancement: 0-5, 5 level
16.11	Sound power: 2-10, 9 level

16.12	Grey map: 0-67, 67 level
16.13	False color: 0-67, 67 level
16.14	Image style: Soft-Comparison, 2 level
16.15	Extended level: Maximum 72 level Convex probe: 9 level Trans-vaginal probe: 72 level Micro-convex probe: 29 level Cardiac probe: 40 level 4D Volume probe: 16 level
	PS: The screen has real-time display of voice power, probe frequency, dynamic range, pseudo color, gray scale and other 11 parameters can be adjusted
	PS: When the probe scan range reaches the maximum, the space synthesized is 0.
17:	Measurement and analysis function:
17.1	General measurement: Distance, area, ellipse, cross line, angle, distance ratio, volume, Volume (ellipse), area ratio, diameter, joint angle
17.2	Cardiac: Automatic spectrum envelope、 LV、 Main Pulmonary artery diameter、 RVEDd、 RVEDs、 LVM、 LAV、 HR、 MVF、 AO、 AR、 LVOT、 TVF、 Pulmonic valve、 Pulmonary vein、 RV、 Doppler fetal heart sound、 LVET、 LVM、 LVMI、 AV
17.3	Vascular: carotid intima (IMT), length stenosis ratio, area stenosis ratio, IMT (back wall), IMT (front wall)
17.4	OB: Fetal routine、 AFI、 TW、 GS、 CRI、 OFD、 HL、 ulna、 NT、 Fibula、 Nbonel、 Radial、 Tibia
17.5	GYN: uterus、 cervix、 corpus uteri/cervix uterus、 left ovarian vein、 right ovarian vein、 dominant follicle、 intima thickness
17.6	Urology: prostate、 residual urine、 left kidney、 right kidney、 left suprarenal vein、 right suprarenal、 left testis、 right testis、 left seminal vesicle、 right seminal vesicle
17.7	Abdomen: liver、 CHD、 portal vein diameter、 cholecyst、 CBD、 pancreas、 spleen、 Internal diameter of abdominal aorta、 kidney
17.8	Small parts: Thyroid
17.9	Software package: Measurement package、 Software package、 Medical records management software package
18:	Graphic and text management system
18.1	Host hard disk 1T, Start fast and stable
18.2	Movie playback: ≥2000 frames
18.3	Internal file information management system: can record patient number, name, check number, check date and so on, and can be searched and managed by numbering, checking number, name and so on.
18.4	Type of report is 16
18.5	One key fast report graphic and text management
18.6	Support DVD R/W drive
19:	Interface

19.1	USB interface: 4
19.3	DICOM interface: 1
19.4	LAN interface: 1
19.5	HDMI interface: 1
19.6	Probe Holder: 5(not including the holder for ultrasound gel)
19.7	Gel Warming heater(Optional)
20:	Configuration
20.1	Trolley type full digital color Doppler ultrasound diagnostic system
20.2	Probe: convex array probe (standard), linear probe (optional), Trans-vaginal probe (optional), cardiac probe (optional), 4D volume probe (optional)
20.3	≥13 quick adjusting knobs
21:	Technology, after-sales service and other requirements
21.1	After acceptance, the warranty is free for two years (Provide manufacturer warranty certificate)
21.2	Manufacturer has ISO13485 certification and EU CE certification.