

# DP-50 Digital Ultrasonic Diagnostic Imaging System



## Performance Specifications

### System Description

The DP-50 is designed to be portable, ergonomic, and easy to use. The platform supports multi-modalities.

### Applications

Gynecology, obstetrics, abdominal, pediatric, small organ, cephalic, transcranial, musculo-skeletal, cardiac, vascular, urology, orthopedics, nerve, Intraoperative.

### General Specification

#### Dimensions and Weight

##### Unfolded:

Depth: 476mm (18.74 inch)  
Width: 415mm (16.34 inch)  
Height: 396mm (15.59 inch)

##### Folded:

Depth: 190mm (7.48 inch)  
Width: 415mm (16.34 inch)  
Height: 378mm (14.88 inch)  
Net Weight: 7.7kg (without battery)

#### Electrical Power

##### Input Power

Voltage: 100 – 240V~  
Frequency: 50/60Hz  
Input current: 1.5 – 0.8A

##### Output Power

Output power: 500W

#### Battery

Lithium-ion  
Battery Pack: 14.8V, 6600mAh  
Charge time: < 3 hours (connected on AC power supply, with the system powered off)

Endurance time: > 120 min

#### Boot Time

Boot time: ≤23s  
Wake up time (from standby): ≤5.8s

#### Operating Environment

Ambient temperature: 0°C ~ 40°C  
Relative humidity: 30% ~ 85% (no condensation)  
Atmospheric pressure: 700 hPa ~ 1060 hPa

#### Storage & Transportation Environment

Ambient temperature: -20°C ~ 55°C  
Relative humidity: 30% ~ 95% (no condensation)  
Atmospheric pressure: 700 hPa ~ 1060 hPa

#### Probe

Probe Types: Convex array  
Linear array

#### Scanning Methods

Electronic convex with extend FOV  
Electronic linear with slant scanning and trapezoid

#### Probe Model

35C50EA Convex  
65C15EA Micro-Convex  
65EC10EA Endocavity Micro-Convex  
75L38EA Linear  
75L53EA Linear  
10L24EA Linear

#### Available Needle-guided Bracket for Probe

35C50EA NGB-001  
65C15EA NGB-005  
75L38EA NGB-002  
75L53EA NGB-007  
10L24EA NGB-016

#### System Configuration

##### Standard Configuration

Display: 15-inch LCD,  
High-Resolution 1024 x 768

Contrast and brightness: Adjustable  
Screen Saver: Time presettable  
Angle adjustable: 30°  
Control Panel: Alphanumeric Keys  
Function Keys

User-defined Keys: Function presettable

8 segment TGC  
Trackball: Color & Speed presettable  
Key Backlight: Brightness & Volume presettable  
Integrated Speakers  
Indicators: Power/Battery/Standby/  
HDD status

Phase Shift harmonic imaging  
Trapezoid imaging  
Slant scanning for linear probes (2D Steer)  
iBeam™  
iTouch™  
ExFOV Imaging for Convex Probe  
iStation™

320G integrated hard disk  
I/O Interfaces  
Transducer port: 2  
Power input port: 1 (Connect to the AC power supply)  
USB port: 4  
VGA OUT port: 1  
Video OUT: 1  
S-Video OUT: 1 (Separate video output)  
Ethernet port: 1 (Connect to network)  
Remote control port: 1

Multi-language screen display and control panel overlay

Application categories: Abdomen, Obstetrics, Gynecology, Cardiology, Small Parts, Urology, Vascular, Orthopedics, Emergency, Nerve

Accessories: Basic Volume, Advanced Volume, Operation Note, Operator's manual, Gel, Power cord, 3-Flat-Pin Power Cord, US Power Cord, Probe holder, Grounded Cable, Video Printer Remote Cable

#### System Language

Software display and keyboard input available: Chinese/English/German/Spanish/French/Italian/Portuguese/Russian/Czech/Polish

Keyboard input available only: Icelandic/Norwegian/Swedish/Finnish/Turkish/Danish

Control panel overlay available: Chinese/German/Spanish/French/Italian/Portuguese/Russian/Czech/Polish

Operation manual available: Chinese/English/German/Spanish/French/Italian/Portuguese/Russian

#### Options

iClear™, IMT (Auto Calculation of Intima-Media Thickness), DICOM basic, Task management, DICOM storage, DICOM print, DICOM storage commitment, DICOM media storage (including DICOM DIR), DICOM Worklist Keys for optical functions, iClear™ Key, IMT Key, DICOM Basic Key, DICOM Worklist Key, Battery Pack, Carrying case

External USB DVD-RW: SE-S224Q  
Footswitch: 971-SWNOM (2-pedal)  
SP-997-350 (3-pedal)

Mobile trolley: UMT-50  
Adjustable height range: 0-100mm, 3 levels

#### Peripherals Supported

Black and White Video Printer  
SONY UP-897MD Analog  
MITSUBISHI P93W Analog  
Color Video Printer  
SONY UP-20 Analog  
MITSUBISHI CP910 Analog  
HP Photosmart plus B210A Digital Graph/text printer  
HP deskjet 1280  
HP Laserjet CM1015  
HP officejet 6000  
HP officejet all-in-one 3600

## Performance Specifications

### Exam Mode

ABD, ABD-Difficult, Ped-ABD, GYN, OB1, OB2/3, Cardiac, Thyroid, Breast, SMP, Urology, Prostate, Vascular, Musculoskeletal, Nerve, Superficial, Orthopedic, EM FAST

### Imaging Mode

**B-Mode**  
Tissue Harmonic Imaging  
Phase Shift Harmonic Imaging  
Slant scanning for linear probes (2D Steer)  
Trapezoid Imaging for Linear Probe  
ExFOV Imaging for Convex Probe

M -Mode

### Display Mode

Dual live: B/M  
Time line display: Left/right and top/bottom (1:1, 1:2, Full)

Single window

Dual-split: B/M, B/B  
Quad-split: 4B

### Imaging Technology

iBeam™ (Spatial Compounding Imaging for Linear and Convex Probe)

Multi-frequency probes for 2D imaging modes

iClear™ (adaptive speckle suppression imaging for all probes)

iTouch™ (B/M): Auto Optimization

TSI (Tissue Specific Imaging)

iZoom™

Spot Zoom and Pan Zoom

### B Mode

Display Depth

Minimum: 0.9cm

Maximum: 37cm

B mode: 400 fps

Adjustable focus number: 4

Adjustable focus positions (Max.): 16

Digital processing channels: 1024

Magnification factor:

Pan Zoom: 100%-1000%, 10 steps

Spot Zoom: continuously adjustable

iZoom: instant full screen view, two level

System dynamic range: 30~220dB, 39 steps

Frequency: 2.0~14.0MHz (transducer dependant), 6 steps

Gain: 0~100dB, 51 steps

TGC: 8

Colorize: On, off

Colorize map: Off, 1~16

FOV: N, M1, M2, W, ExFOV

IP: 1~8

Persistence: 0~7

R/L, U/D Flip

Rotation: 0°, 90°, 180°, 270°

Line Density: L, M, H, UH

iTouch Bright: -12~12dB, 9 steps

A.power: 7%~100%, 32 steps

Smooth: 1~4

TSI: General, Fat, Fluid, Muscle

B Steer: -6°, 0°, 6°, linear transducer only

Trapezoid: On, off, linear transducer only

FOV Position: Max. 5 steps

HScale: On, off

Lithotripsy: On, off

Gray Rejection: 0~5

γ: 0~3

Curve: Adjustable

Gray Invert: On, off

High FR: On, off, 35C50EA THI

Auto Merge: On, off, linear probe, Dual display mode

### M Mode

Speed: 1~6

IP: 1~8

Edge Enhance: 0~14

M Soften: 0~14

Time Mark: On, off

### Display Annotations

Hospital name: Up to 64 characters can be displayed

Exam date: 3 types selectable, YY/MM/DD, MM/DD/YY, DD/MM/YY

Exam time: 2 formats

Acoustic output indices:

MI, TIC, TIS, TIB

Freeze icon

Gender

Age

ID: Up to 64 characters can be displayed

Name: Up to 64 characters can be displayed

Probe model

Current exam mode

Accession#

Operator: Up to 64 characters can be displayed

Menu: Image, Probe orientation mark, Time line, Coordinate axis, including depth, time, frequency

TGC curve, Focus, Comment, Body mark, Measure caliper, Gray scale bar, Thumbnail, Help information, Status icons, Biopsy guideline

Measure result window (up to 8 results can be displayed)

Image parameters

### Comments and Body Mark

#### Comment

##### Text Comment

Comment text (option)

Abdomen: 89

OB: 97

Cardiology: 80

GYN: 69

Vascular: 110

Urology: 61

SMP: 123

Pediatrics: 35

Nerve: 52

EM: 126

User-defined Comments

Add

Delete

#### Arrow

Arrow Size

Arrow position

Arrow orientation

#### Body Mark

##### Application Package (Option)

Abdomen: 13

OB: 25

Cardiology: 18

GYN: 7

Vascular: 17

Urology: 7

Small Part: 46

Nerve: 32

EM: 38

#### User-defined

Import (load)

Delete

#### Storage/Connection

320G integrated hard disk

External DVD-R/W (Optional)

4 USB ports

Image archive on hard disk and DVD, temporary saving in cine memory

Clipboard

Thumbnail

Single-frame image

formats: BMP, JPG, DCM, FRM (supports off-line analysis)

Multi-frame images

formats: AVI, DCM, CIN (supports off-line analysis)

Storage area:

Image area: 640×480

Standard area: 800×600

Full-screen: 1024×768

## Performance Specifications

### Storage/Connection (cont'd)

iVision:	Demo player
Cine review:	Auto, Manual (auto review segment can be set), supports linked cine review for 2D, M images
Cine memory capacity (Max.)	
Clip length presettable:	1-60s
B mode:	10566 frames
M mode:	66.3s
Max. frames in HDD	
	1290551 frames (JPG format)
	232397 frames (FRM format)
DICOM:	DICOM Basic, Task management, DICOM storage, DICOM print, DICOM storage commitment, DICOM media storage (including DICOM DIR), DICOM Worklist

### iStation™

Intelligent patient data management system  
 Integrated search engine for patient data  
 Detailed patient information view  
 Intelligent data backup/restore  
 Patient data/image sending  
 Patient data deleting  
 Exam managing: create new exam, activate exam and continue exam  
 Recycle Bin  
 Task manager

### Measure/Calc/Study

#### Caliper

##### 2D-mode

Depth, Distance, Angle, Area, Volume, Cross, Parallel, T Length, Ration (D), Ratio (A), B-Hist, B-Profile

##### M-mode

HR, Slope, Distance, Time, Velocity

#### Application

##### Abdomen

###### 2D-mode Measure

Liver  
 Renal L (Renal Length)  
 Renal H (Renal Height)  
 Renal W (Renal Width)  
 Cortex (Renal Cortical Thickness)  
 Adrenal L (Adrenal Length)  
 Adrenal H (Adrenal Height)  
 Adrenal W (Adrenal Width)  
 CBD (Common bile duct)  
 Portal V Diam (Portal Vein Diameter)  
 CHD (Common hepatic duct)  
 GB L (Gallbladder Length)  
 GB H (Gallbladder Height)  
 GB wall th (Gallbladder wall thickness)  
 Panc duct (Pancreatic duct)  
 Panc head (Pancreatic head)  
 Panc body (Pancreatic body)

Panc tail (Pancreatic tail)  
 Spleen  
 Aorta Diam (Aorta Diameter),  
 Aorta Bif  
 Iliac Diam (Iliac Diameter)  
 Pre-BL L (Previous-Bladder Length)  
 Pre-BL H (Previous-Bladder Height)  
 Pre-BL W (Previous-Bladder Width)  
 Post-BL L (Posterior-Bladder Length)  
 Post-BL H (Posterior-Bladder Height)  
 Post-BL W (Posterior-Bladder Width)

##### 2D-mode Calculation

Renal Vol (Renal Volume)  
 Pre-BL Vol (Previous-Bladder Volume)  
 Post-BL Vol (Posterior-Bladder Volume)  
 Mictur. Vol (Micturated Volume)

##### 2D-mode Study

Kidney, Adrenal, Bladder

##### Obstetrics

###### 2D-mode Measure:

GS (Gestational Sac Diameter)  
 YS (Yolk Sac)  
 CRL (Crown Rump Length)  
 NT (Nuchal Translucency)  
 BPD (Biparietal Diameter)  
 OFD (Occipital Frontal Diameter)  
 HC (Head Circumference)  
 AC (Abdominal Circumference)  
 FL (Femur Length)  
 TAD (Abdominal Transversal Diameter)  
 APAD (Anteroposterior Abdominal Diameter)  
 TCD (Cerebellum Diameter)  
 Cist Magna (Cist Magna)  
 LVW (Lateral Ventricle Width)  
 HW (Hemisphere Width)  
 OOD (Outer Orbital Diameter)  
 IOD (Inter Orbital Diameter)  
 HUM (Humerus Length)  
 Ulna (Ulna Length)  
 RAD (Radius Length)  
 Tibia (Tibia Length)  
 FIB (Fibula Length)  
 CLAV (Clavicle Length)  
 Vertebrae (Length of Vertebrae)  
 MP (Middle Phalanx Length)  
 Foot (Foot Length)  
 Ear (Ear Length)  
 APTD (Anteroposterior trunk diameter)  
 TTD (Transverse trunk diameter)  
 FTA (Fetal Trunk Cross-sectional Area)  
 THD (Thoracic Diameter)  
 HrtC (Heart Circumference)  
 TC (Thoracic circumference)  
 Umb VD (Umbilical Vein Diameter)  
 F-kidney (Fetal kidney Length)  
 Mat Kidney (Matrix Kidney Length)  
 Cervix L (Cervical Length)

AF (Amniotic Fluid)  
 NF (Nuchal Fold)  
 Orbit (Orbit)  
 PL Thickness (Placental Thickness)  
 Sac Diam1 (Gestational Sac Diameter 1)  
 Sac Diam2 (Gestational Sac Diameter 2)  
 Sac Diam3 (Gestational Sac Diameter 3)  
 AF1 (Amniotic Fluid 1)  
 AF2 (Amniotic Fluid 2)  
 AF3 (Amniotic Fluid 3)  
 AF4 (Amniotic Fluid 4)  
 LVIDd (Left Ventricular Internal Diameter at End-diastole)  
 LVIDs (Left Ventricular Internal Diameter at End-systole)  
 LV Diam (Left Ventricular Diameter)  
 LA Diam (Left Atrium Diameter)  
 RVIDd (Right Ventricular Internal Diameter at End-diastole)  
 RVIDs (Right Ventricular Internal Diameter at End-systole)  
 RV Diam (Right Ventricular Diameter)  
 RA Diam (Right Atrium Diameter)  
 IVSd (Interventricular Septal Thickness at End-diastole)  
 IVSs (Interventricular Septal Thickness at End-systole)  
 IVS (Interventricular Septal Thickness)  
 LV Area (Left Ventricular Area)  
 LA Area (Left Atrium Area)  
 RV Area (Right Ventricular Area)  
 RA Area (Right Atrium Area)  
 Ao Diam (Aorta Diameter)  
 MPA Diam (Main Pulmonary Artery Diameter)  
 LVOT Diam (Right Ventricular Outflow Tract Diameter)  
 RVOT Diam (Right Ventricular Outflow Tract Diameter)  
 2D-mode Calculation  
 Mean Sac Diam (Mean Gestational Sac Diameter)  
 AFI, EFW1 (Estimated Fetal Weight 1), EFW2 (Estimated Fetal Weight 2), HC/AC, FL/AC, FL/BPD, AXT, CI, FL/HC, HC(c), HrtC/TC, TCD/AC, LVW/HW, LVD/RVD, LAD/RAD, AoD/MPAD, LAD/AoD  
 2D-mode Study AFI  
 M-mode Measure  
 FHR (Fetal Heart Rate)  
 LVIDd (Left ventricular diameter at end diastole)  
 LVIDs (Left ventricular diameter at end systole)  
 RVIDd (Right ventricular diameter at end diastole)  
 RVIDs (Right ventricular diameter at end systole)  
 IVSd (interventricular septal thickness at end diastole)  
 IVSs (interventricular septal thickness at end systole)

##### Available Obstetrics Formulae

GA (gestational age) and FG (fetal growth) Formulae

## Performance Specifications

### Measure/Calc/Study (cont'd)

#### Available Obstetrics Formulae (cont'd)

Items	GA	FG
EFW1:	2	8
EFW2:	2	8
GS:	4	4
CRL:	9	6
BPD:	11	11
HC:	6	6
AC:	3	6
FL:	12	10
OFD:	3	4
APAD:	/	1
TAD:	/	1
FTA:	1	1
THD:	1	1
HUM:	2	2
Ulna:	/	1
Tibia:	/	1
RAD:	/	2
FIB:	/	2
CLAV:	1	1
TCD:	2	3
OOD:	1	/
Cist Magna:	/	1
Mean Sac Diam:	1	/
AFI:	/	1
Fetal Weight Formulae:	1	1

### Cardiology

#### 2D-mode Measure

LA Diam (Left Atrium Diameter)  
 LA Major (Left Atrium major Diameter)  
 LA Minor (Left Atrium minor Diameter)  
 RA Major (Right Atrium major Diameter)  
 RA Minor (Right Atrium minor Diameter)  
 LV Major (Left Ventricular major Diameter)  
 LV Minor (Left Ventricular minor Diameter)  
 RV Major (Right Ventricular major Diameter)  
 RV Minor (Right Ventricular minor Diameter)  
 LA Area (Left Atrium area)  
 RA Area (Right Atrium area)  
 LV Area(d) (Left Ventricular area at end-diastole)  
 LV Area(s) (Left Ventricular area at end-systole)  
 RV Area(d) (Right Ventricular area at end-diastole)  
 RV Area(s) (Right Ventricular area at end-systole)  
 LVIDd (Left Ventricular Internal Diameter at end-diastole)  
 LVIDs (Left Ventricular Internal Diameter at end-systole)  
 RVDd (Right Ventricular Diameter at end-diastole)  
 RVDs (Right Ventricular Diameter at end-systole)  
 LVPWd (Left Ventricular Posterior wall thickness at end-diastole)

LVPWs (Left Ventricular Posterior wall thickness at end-systole)  
 RVAWd (Right Ventricular Anterior wall thickness at end-diastole)  
 RVAWs (Right Ventricular Anterior wall thickness at end-systole)  
 IVSd (Interventricular Septal thickness at end-diastole)  
 IVSs (Interventricular Septal thickness at end-systole)  
 Ao Diam (Aorta Diameter)  
 Ao Arch Diam (Aorta arch Diameter)  
 Ao Asc Diam (Ascending Aorta Diameter)  
 Ao Desc Diam (Descending Aorta Diameter)  
 Ao Isthmus (Aorta Isthmus Diameter)  
 Ao st junct (Aorta ST junct Diameter)  
 Ao Sinus Diam (Aorta Sinus Diameter)  
 Duct Art Diam (Ductus Arteriosus Diameter)  
 Pre Ductal (Previous ductal Diameter)  
 Post Ductal (Posterior ductal Diameter)  
 ACS (Aortic Valve Cusp Separation)  
 LVOT Diam (Left Ventricular Outflow Tract Diameter)  
 AV Diam (Aorta Valve Diameter)  
 AVA (Aortic Valve Area)  
 PV Diam (Pulmonary valve Diameter)  
 LPA Diam (Left pulmonary Artery Diameter)  
 RPA Diam (Right pulmonary Artery Diameter)  
 MPA Diam (Main pulmonary Artery Diameter)  
 RVOT Diam (Right Ventricular Outflow Tract Diameter)  
 MV Diam (Mitral Valve diameter)  
 MVA (Mitral Valve area)  
 MCS (Mitral Valve Cusp Separation)  
 EPSS (Distance between point E and Interventricular Septum when mitral valve is fully open)  
 TV Diam (Tricuspid valve Diameter)  
 TVA (Tricuspid Valve Area)  
 IVC Diam(Insp) (Inferior vena cava inspiration Diameter)  
 IVC Diam(Expir) (Inferior vena cava expiration Diameter)  
 SVC Diam(Insp) (Superior vena cava inspiration Diameter)  
 SVC Diam(Expir) (Superior vena cava expiration Diameter)  
 LCA (Left Coronary Artery)  
 RCA (Right Coronary Artery)  
 VSD Diam (Ventricular Septal defect Diameter)  
 ASD Diam (Atrial Septal defect Diameter)  
 PDA Diam (Patent ductus Arteriosus Diameter)  
 PFO Diam (Patent Oval Foramen Diameter)  
 PEd (Pericardial Effusion at diastole)  
 PEs (Pericardial Effusion at systole)

#### 2D-mode Calculation

LA/Ao (Left Atrium Diameter/Aorta Diameter)  
 Ao/LA (Aorta Diameter/Left Atrium Diameter)

#### M-mode Measure

LA Diam (Left Atrium Diameter)  
 LVIDd (Left Ventricular Internal Diameter at end-diastole )  
 LVIDs (Left Ventricular Internal Diameter at end-systole)  
 RVDd (Right Ventricular Diameter at end-diastole)  
 RVDs (Right Ventricular Diameter at end-systole)  
 LVPWd (Left Ventricular Posterior wall thickness at end-diastole)  
 LVPWs (Left Ventricular Posterior wall thickness at end-systole)  
 RVAWd (Right Ventricular Anterior wall thickness at end-diastole)  
 RVAWs (Right Ventricular Anterior wall thickness at end-systole)  
 IVSd (Interventricular Septal thickness at end-diastole)  
 IVSs (Interventricular Septal thickness at end-systole)  
 Ao Diam (Aorta Diameter)  
 Ao Arch Diam (Aorta arch Diameter)  
 Ao Asc Diam (Ascending Aorta Diameter)  
 Ao Desc Diam (Descending Aorta Diameter)  
 Ao Isthmus (Aorta Isthmus Diameter)  
 Ao ST junct (Aorta ST junct Diameter)  
 Ao Sinus Diam (Aorta Sinus Diameter)  
 LVOT Diam (Left Ventricular outflow tract Diameter)  
 ACS (Aortic valve Cusp Separation)  
 LPA Diam (Left pulmonary Artery Diameter)  
 RPA Diam (Right pulmonary Artery Diameter)  
 MPA Diam (Main pulmonary Artery Diameter)  
 RVOT Diam (Right Ventricular outflow tract Diameter)  
 MV E Amp (Amplitude of the Mitral Valve E wave)  
 MV A Amp (Amplitude of the Mitral Valve A wave)  
 MV E-F Slope (Mitral Valve E-F slope )  
 MV D-E Slope (Mitral Valve D-E slope)  
 MV DE (Amplitude of the Mitral Valve DE wave)  
 MCS (Mitral Valve Cusp Separation)  
 EPSS (Distance between point E and the interventricular septum)  
 PEd (Pericardial effusion at diastole)  
 PEs (Pericardial effusion at systole)  
 LVPEP (Left Ventricular pre-ejection period)  
 LVET (Left Ventricular ejection time)  
 RVPEP (Right Ventricular pre-ejection period)  
 RVET (Right Ventricular ejection time)  
 HR (Heart Rate)

#### M-mode Calculation

LA/Ao (Left Atrium diameter/Aorta diameter)  
 Ao/LA (Aorta Diameter/Left Atrium Diameter)

## Performance Specifications

### Measure/Calc/Study (cont'd)

#### Cardiology (cont'd)

Cardiac Study Items

##### 2D-mode

S-P Ellipse, B-P Ellipse, Bullet, Mod. Simpson, Simpson SP (A2C), Simpson SP (A4C), Simpson BP, Cube, Teichholz, Gibson, LA Vol(A-L), LA Vol (Simp), RA Vol (Simp), LV Mass (Cube), LV Mass (A-L), LV Mass (T-E)

##### M-mode

LVIMP, Cube, Teichholz, Gibson, LV Mass (Cube)

#### Vascular

##### 2D-mode Measure

Vas Diam (Vascular Diameter)  
Vas Area (Vascular Area)  
Normal (D) (Vessel Diameter)  
Resid (D) (Residual Diameter)  
Normal (A) (Vessel Area)  
Resid (A) (Residual Area)  
CCA IMT (Common Carotid Artery IMT)  
Bulb IMT (Bulbillate IMT)  
ICA IMT (Internal Carotid Artery IMT)  
ECA IMT (External Carotid Artery IMT)

##### 2D-mode Calculation

Stenosis D (Stenosis Diameter)  
Stenosis A (Stenosis Area)

##### 2D-mode Study

Volume Flow, Stenosis, IMT (Intima-Media Thickness)

#### Gynecology

##### 2D-mode Measure

UT L, UT H, UT W, Cervix L, Cervix H, Cervix W, Endo, Ovary L, Ovary H, Ovary W, Follicle1-16 L, Follicle1-16 W, Follicle1-16 H

##### 2D-mode Calculation

Ovary Vol, UT Vol, Uterus Body, UT-L/ CX-L

##### 2D-mode Study

Uterus (Length, height and width of uterus, endometrium thickness)  
Uterine Cervix (Length, height and width of uterine cervix)  
Ovary (Length, height and width of ovary)  
Follicle 1-16 (Length and width of follicle 1-16)

#### Urology

##### 2D-mode Measure

Renal L, Renal H, Renal W, Cortex, Adrenal L, Adrenal H, Adrenal W, Prostate L, Prostate H, Prostate W, Seminal L, Seminal H, Seminal W, Testis L, Testis H, Testis W, Pre-BL L, Pre-BL H, Pre-BL W, Post-BL L, Post-BL H, Post-BL W

##### 2D-mode Calculation

Renal Vol, Prostate Vol, Testis Vol, Pre-BL Vol, Post-BL Vol, Mictur.Vol

##### 2D-mode Study

Kidney, Adrenal, Prostate, Seminal Vesicle, Testis, Bladder

#### Small Parts

##### 2D-mode Measure

Thyroid L, Thyroid H, Thyroid W, Isthmus H, Testis L (Testicular Length), Testis H (Testicular Height), Testis W (Testicular Width), Mass1 D1-3, Mass2 D1-3, Mass3 D1-3

##### 2D-mode Calculation

Thyroid Vol

##### 2D-mode Study

Thyroid, Testis, Mass1-3

#### Orthopedics

##### 2D-mode Measure

HIP, HIP-Graf

#### Diagnostic Report

View/add images, Data edit, Print, Import, Export (to PDF/RTF file), View history report, Obstetric analysis, Fetal growth curve

#### Safety & Conformance

##### Quality Standards

ISO 9001:2008  
ISO 13485:2003

##### Design Standards

UL 60601-1  
CSA C22.2 No. 601-1  
EN 60601-1 and IEC 60601-1  
EN 60601-1-1 and IEC 60601-1-1  
EN 60601-1-2 and IEC 60601-1-2  
EN 60601-2-37 and IEC60601-2-37  
EN 60601-1-4 and IEC60601-1-4  
EN 60601-1-6 and IEC60601-1-6

##### CE Declaration

DP-50/DP50T system is fully in conformance with the Council Directive 93/42/EEC Concerning Medical Devices, as amended by 2007/47/EC. The number adjacent to the CE marking (0123) is the number of the EU-notified body that certified meeting the requirements of Annex II of the Directive.  
Not all features or specifications described in this document may be available in all probes and/or modes.  
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Note: the contents in this datasheet are applied to Version 1.0 of system software for DP-50 diagnostic ultrasound system.