System Description
The DP-10/DP-10T/DP-11/DP-15/DP-18 is an ergonomically designed portable and ease-of-use device for multi-specialty use like adults, pregnant women, pediatric patients and neonates.

Intended Use
- CE Region: It is intended for use in gynecology, obstetrics, abdominal, pediatric, small organ, cephalic, transcranial, musculo-skeletal, cardiac, vascular, urology, orthopedics and nerve exams.

General Specification

Dimensions and Weight
- Depth: 161mm (6.34 inch)
- Width: 290mm (11.42 inch)
- Height: 354mm (13.94 inch)
- Net Weight: 5.1kg (single-probe socket, without battery or hard disk)

Electrical Power
Input power
- Voltage: 100-240V~
- Frequency: 50/60Hz
- Input current: 1.0-0.5A

Battery
- Lithium-ion Battery Pack: 11.1V , 4800mAh
- Charge time: < 3 hours (connected on AC power supply, with the system powered off)
- Endurance time: > 120 min (Normal scanning, convex probe, single B mode, frequency 3.5M, AP15, depth 18.3cm, brightness 50%, contrast 50%, backlit brightness low, without hard disk).

Boot time
- Boot time: ≤60s

Operating Environment
Ambient temperature: 0°C ~ 40°C
Relative humidity: 30% ~ 85% (no condensation)

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

Probe

Probe Types
- Convex array
- Linear array

Scanning Methods
- Electronic convex with extend FOV
- Electronic linear with trapezoid

Probe Model
- 35C20EA
- 35C50EB
- 65C15EA
- 65EC10EB
- 75L53EA
- 75L38EB

Available Needle-guided Bracket for Probe:
- 35C50EB NGB-001
- 75L38EB NGB-002
- 35C20EA NGB-003
- 65EC10EB NGB-004
- 65C15EA NGB-005
- 75L53EA NGB-007

System Configuration

Standard Configuration
- Display
- 12.1-inch LED, High-Resolution 1024 x 768
- Contrast & Brightness adjustable
- Screen Saver: Time presettable
Angle adjustable: 30°

- Control Panel
  - Alphanumeric Keys
  - Function Keys
  - Knobs
  - User-defined Keys: function presettable
  - 8 segment TGC
  - Trackball: Color & Speed presettable
  - Key Backlight Brightness & Volume presettable
  - Integrated Speakers
- Indicators: Power/Battery/HDD status
- Handle
- Tissue harmonic imaging
- Trapezoid imaging
- ExFOV Imaging (Extended FOV for Convex Probe)
- iStation™

- I/O Interfaces
  - Transducer port: 2 (1 optional)
  - Power input port: 1 (Connect to the AC power supply)
  - USB port: 2
  - 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
  - Nerve

- Accessories
  - Operator’s manual
    - Basic Volume.
    - Advanced Volume.
    - Operation Note.
  - Gel
  - Power cord
    - 3-Flat-Pin Power Cord
  - EU Power Cord
  - US Power Cord
  - UK Power Cord
  - Probe holder
  - Gel 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
  - DICOM Basic
    - Task management
    - DICOM storage
    - DICOM print
    - DICOM storage commitment
    - DICOM media storage (including DICOM DIR)
  - DICOM Worklist (DICOM Basic be configured)
  - Keys for option functions
  - Battery Pack: Li-ion LI23I002A (configured in factory)
  - 320G Hard disk (configured in factory)
  - External USB DVD-RW: SE-S224
  - Footswitch:
    - 971-SWNOM (2-pedal or 3-pedal)
    - FS-81-SP (1-pedal)
  - Mobile trolley: UMT-110
    - Weight: 21kg
    - Width: 445mm
    - Depth: 535mm
    - Height: selective (not available after installed): 810mm, 870mm, 2 levels
  - Dual-probe socket
  - Carrying bag
  - Dust-proof cover
- Probes
- Needle-guided brackets

**Peripherals Supported**

- HP Color Laserjet CM1015 MFP
- HP LaserJet p1007
- HP deskjet 1280
- HP officejet 6000
- HP OfficeJet J3600
- HP LaserJet 1020 plus
- SONY UP-20
- MITSUBISHI CP910E
- SONY UP-897MD
- MITSUBISHI P93W-Z
- SONY UP-D897

**Exam Mode**

- Adult ABD
- ABD-Difficult
- Ped-ABD
- GYN
- OB1
- OB2/3
- Urology
- Prostate
- Vascular
- Thyroid
- Breast
- Testicle
- MSK
- General Nerve
- Superficial
- Orthopedic
- Cardiac

**Imaging Mode**

- B-Mode
  - Tissue Harmonic Imaging
  - Trapezoid Imaging for Linear Probe
  - ExFOV Imaging (Extended FOV for Convex Probe)
- M-Mode
- Display Mode:
  - Dual live: B/M
  - Time line display: top/bottom (1:1, 2:1, 1:2, Full)

**Imaging Features**

- Multi-frequency probes for 2D imaging modes
- TSI (Tissue Specific Imaging)
- Spot Zoom and Pan Zoom

**B Mode**

- Display Depth
  - Minimum: 0.9 cm
  - Maximum: 37.8 cm
- Frame rate (Max.): 400 fps
- Adjustable focus number: 4
- Adjustable focus positions (Max.): 16
- Magnification factor:
  - Pan Zoom: 0.8~10, 29steps
  - Spot Zoom: continuously adjustable
- System dynamic range: 30~220, 39steps
- Frequency: 2.0~10.0MHz (transducer dependant), 6 steps
- Gain: 0~100dB, 51steps
- TGC: 8
- Gray map: 1~8
- Colorize map: off, 1~16
- ExFOV: on/off (Trapezoid imaging for linear probe)
- FOV: on/off, continuously adjustable
- IP: 1~8
- Persistence: 0~7
- R/L, U/D Flip
- Rotation: 0°, 90°, 180°, 270°
- Line Density: L, M, H, UH
- A.power: 7%~100%, 32steps
- Smooth: 1~4
- TSI: General, Fat, Fluid, Muscle
- H Scale: on/off
- Gray Rejection: 0~5
- γ: 0~3
- Curve: adjustable
- Gray Invert: on/off
- Auto Merge: on/off, linear probe, Dual display mode

**M Mode**

- Gain: 0~100
- Speed: 1~6
- Edge Enhance: 0~14
- M Soften: 0~14

Display Annotations
- Manufacturer logo
- 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
- Other 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
- 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 for all exam modes

Arrow
- Arrow size
- Arrow position
- Arrow orientation

Body Mark

Application package
- Body marks for all exam modes:
- Custom: import/delete body marks

Storage/ Connection
- 320G integrated hard disk
- 4G SDD standard storage space
- External DVD-R/W (Optional)
- 2 USB ports
- Image archive on hard disk, DVD, iStorage (Advanced Network Storage) and 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
- iTVision: 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: 11959 frames
  - M mode: 110.0 s
- Max. frames in HDD
  - BMP: >130000
  - FRM: >98000
- iStorage (Advanced Network Storage)
- 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&Circ (Trace/ Ellipse/ Spline/ Cross)
- 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)
  » Ureter
- 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)
• 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) Formulæ

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• Fetal Weight Formulae: 11

Available 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)
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<td>Pericardial effusion at systole</td>
</tr>
<tr>
<td>LVPEP</td>
<td>Left Ventricular pre-ejection period</td>
</tr>
<tr>
<td>LVET</td>
<td>Left Ventricular ejection time</td>
</tr>
<tr>
<td>RVPEP</td>
<td>Right Ventricular pre-ejection period</td>
</tr>
</tbody>
</table>
RVET (Right Ventricular ejection time)
HR (Heart Rate)
Diastole
Systole

- M-mode Calculation
  - LA/Ao (Left Atrium diameter/Aorta diameter)
  - Ao/LA (Aorta Diameter/Left Atrium Diameter)

- 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 Calculation
  - Stenosis D (Stenosis Diameter)
  - Stenosis A (Stenosis Area)

Gynecology
- 2D-mode Measure
  - UT L
  - UT H
  - UT W
  - Cervix L
  - Cervix H
  - Cervix W
  - Endo
  - Ovary L
  - Ovary H

- Ovary W
  - Follicle 1-16 L
  - Follicle 1-16 W
  - Follicle 1-16 H

- 2D-mode Calculation
  - Ovary Vol
  - UT Vol
  - Uterus Body
  - UT-L/ CX-L
  - Follicle 1-16

- 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
  - Ureter
  - Pre-BL L
  - Pre-BL H
  - Pre-BL W
  - Post-BL L
  - Post-BL H
  - Post-BL W
  - Prostate Mass1 d1~d3
  - Prostate Mass2 d1~d3
  - Prostate Mass3 d1~d3
  - Testis Mass1 d1~d3
Testis Mass2 d1~d3
Testis Mass3 d1~d3

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
Prostate Mass1~3
Testis Mass1~3

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)
Breast Mass1 d1-d3
Breast Mass2 d1-d3
Breast Mass3 d1-d3
Thyroid Mass1 d1-d3
Thyroid Mass2 d1-d3
Thyroid Mass3 d1-d3

2D-mode Calculation
Thyroid Vol

2D-mode Study
Thyroid
Testis
Breast Mass1-3
Thyroid Mass1-3

Orthopedics
2D-mode Measure
HIP
HIP-Graf
d/D

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
- EN 60601-1 and IEC 60601-1
- EN 60601-1-2 and IEC 60601-1-2
- EN 60601-2-37 and IEC60601-2-37
- EN ISO 14971 and ISO 14971
- EN ISO10993-1 and ISO10993-1
- EN 62366 and IEC 62366
- EN 62304 and IEC 62304
- EN ISO 17664
- EN 1041
- EN 980
- IEC 60878

CE Declaration
DP-10/DP-10T/DP-11/DP-15/DP-18 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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The contents of this manual are subject to change without prior notice and without our legal obligation.
Note: the contents in this datasheet are applied to Version 1.0 of system software for DP-10/DP-10T/DP-11/DP-15/DP-18 Digital Ultrasonic Diagnostic Imaging System.

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