

DP-30

Digital Ultrasonic Diagnostic Imaging System

Datasheet



mindray
healthcare within reach

System Description

The DP-30 is an ergonomically designed portable and ease-of-use machine 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.
- FDA Region: It is intended for use in fetal, abdominal, pediatric, small organ (breast, thyroid, testes), neonatal cephalic, adult cephalic, trans-rectal, trans-vaginal, musculo-skeletal (conventional, superficial), cardiac (adult, pediatric), peripheral vascular and urology exams.

General Specification

Dimensions and Weight

- Depth: 161mm (6.34 inch)
- Width: 290mm (11.42 inch)
- Height: 354mm (13.94 inch)
- Net Weight: 5.3kg (dual-probe sockets, 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 $\equiv$, 4800mAh
- Charge time: < 3 hours (connected on AC power supply, with the system powered off)
- Endurance time: > 100 min

Boot time

- Boot time: $\leq$ 60s

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
➢ 35C20EA	Convex
➢ 65C15EA	Micro-Convex
➢ 75L38EA	Linear
➢ 75L53EA	Linear
➢ 10L24EA	Linear
➢ 65EC10EA	Endocavity Micro-Convex

Available Needle-guided Bracket for Probe:

➢ 35C50EA	NGB-001
➢ 35C20EA	NGB-003
➢ 65C15EA	NGB-005
➢ 75L38EA	NGB-002
➢ 75L53EA	NGB-007
➢ 10L24EA	NGB-016
➢ 65EC10EA	NGB-004

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
- iClear™ (Speckle Suppression Imaging)

- Tissue Harmonic Imaging
- Trapezoid imaging
- Slant scanning for linear probes (2D Steer)
- iTouch (Auto Image Optimization)
- ExFOV Imaging (Extended FOV for Convex Probe)
- iStation™
- I/O Interfaces
 - Transducer port: 2
 - 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
 - Emergency
 - 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
- Battery Pack: Li-ion LI23I002A
- 320G Hard disk (configured in factory)
- External USB DVD-RW: SE-S224
- Footswitch:
 - SP-997-350 (3-pedal)
 - 971-SWNOM (2-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
- Carrying bag
- Dust-proof cover
- Probes
- Needle-guided brackets

Peripherals Supported

- Black and White Video Printer
 - SONY UP-897MD Analog
 - MITSUBISHI P93W-Z Analog
 - SONY UP-D897 Digital
- Color Video Printer
 - SONY UP-20 Analog

- MITSUBISHI CP910E Analog
- Graph / text printer
 - HP Color Laserjet CM1015 MFP
 - HP LaserJet p1007
 - HP deskjet 1280
 - HP officejet 6000
 - HP OfficeJet J3600
 - HP LaserJet 1020 plus

Exam Mode

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

Imaging Mode

- B-Mode
 - Tissue Harmonic Imaging
- Slant scanning for linear probes (2D Steer)
- 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)
 - Single window
 - Dual-split: B/M, B/B
 - Quad-split: 4B

Imaging Features

- Multi-frequency probes for 2D imaging modes

- iClear (Speckle Suppression Imaging)
- iTouch (B/M): Auto Optimization
- TSI (Tissue Specific Imaging)
- iZoom (Full Screen View)
- Spot Zoom and Pan Zoom

B Mode

- Display Depth
 - Minimum: 0.9 cm
 - Maximum: 37.8 cm
- Frame rate (Max.):
 - B mode: 400 fps
- Adjustable focus number: 4
- Adjustable focus positions (Max.): 16
- Magnification factor:
 - Pan Zoom: 0.8~10, 29 steps
 - Spot Zoom: continuously adjustable
- iZoom: instant full screen view, two level.
- System dynamic range: 30~220, 39steps
- Frequency: 2.0~12.0MHz (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
- B Steer: -6°, 0°, 6°, linear transducer only
- HScale: on/off
- Lithotripsy: 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

- Custom: add/delete/edit comment units in current menu.

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 SSD 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
- 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: 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)
 - 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)
- HrtA (Heart area)
- Facial Angle
- 2D-mode Calculation
 - Mean Sac Diam (Mean Gestational Sac Diameter)
 - AFI
 - EFW (Estimated Fetal Weight)
 - 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

Items	GA	FG
EFW:	2	5
EFW2:	2	5
GS:	4	4
CRL:	10	6
BPD:	12	12
HC:	7	7
AC:	8	9
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
Umb A RI:	/	JUM
Umb A PI:	/	JSUM
MCA RI:	/	JSUM
MCA PI:	/	JSUM

- Fetal Weight Formulae: 11

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)
- HR (Heart Rate)
- Diastole
- 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)
- 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

- Follicle1-16 L
- Follicle1-16 W
- Follicle1-16 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

EM (Emergency)

- 2D-mode Measure

- Renal L
- Renal H
- Renal W
- CBD
- Portal V Diam (Portal Vein Diameter)
- CHD (Common hepatic duct)
- GB wall th (Gallbladder wall thickness)
- Aorta Diam (Aorta Diameter)
- Aorta Bif
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS (Gestational Sac Diameter)
- YS (Yolk Sac)
- CRL (Crown Rump Length)
- NT (Nuchal Translucency)
- BPD (Biparietal Diameter)
- UT L
- UT H
- UT W
- Endo
- Ovary L
- Ovary H
- Ovary W
- 2D-mode Calculation
 - Renal Vol
 - Pre-BL Vol
 - Post-BL Vol
 - Mictur.Vol
 - Ovary Vol
 - UT Vol
 - Uterus Body
- 2D-mode Study
 - Uterus
 - Ovary
 - Kidney
 - Bladder
- M-mode Measure
 - FHR (Fetal Heart Rate)

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-30 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.

No part of this manual may be copied or printed, in whole or in part, without written permission.

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-30 Digital Ultrasonic Diagnostic Imaging System.



Local contact information

Mindray North America
U.S., Canada
800 MacArthur Blvd.,
Mahwah, NJ 07430-0619,
USA
Tel: (1-800) 288 2121

Mindray Medical Germany GmbH
Zwischen den Bächen 4,
64625 Bensheim
Tel: (49-6251) 17524 0
Email: info.de@mindray.com

mindray

Mindray is listed on the NYSE under the symbol "MR"
Mindray Building, Keji 12th Road South, High-tech Industrial Park,
Nanshan, Shenzhen 518057, P.R. China
Tel: +86 755 86119580 Fax: +86 755 26582680
E-mail: intl-market@mindray.com Website: www.mindray.com