

4D Colour Doppler Ultrasound Scanner System

Model DOP-780



- Windows Based System, Colour Doppler, Power Doppler;
- Comprehensive Clinic Application
- 3 probe connector
- 15" High Resolution LED monitor, premium image resolution
- High density 128 Elements Probe
- User preset function
- Abundant diagnostic software packages, satisfying different clinical requirement
- Various peripheral ports, flexible expansion solutions

Technical Specification

- 15 inch hd medical LCD monitor
- Backlit keyboard
- More than digital sound velocity parallel processing system
- No distortion digital full aspects DSC scan conversion system
- Broadband frequency conversion technology scanning front-end system
- Graphical diagnosis and probe selection function module
- Custom WINDOWS ME operating system
- No distortion local amplifier module
- More with the dynamic control module mode
- Built-in memory icon image display module
- USB image storage function module
- English software system
- English input method module
- Sound output information: TI, MI, sound power real-time display module
- Machine long time no operation, the system automatically freezing technology
- The initial model parameters can be imaging by the user defined technology
- STC curve according to the parameters set up automatic display and hiding technology

Imaging Modes:

- B
- B/B
- B+M
- Steer M
- Color M
- CW
- CFM
- PW
- PDI
- CDE
- CCD
- HPRF
- 4D composite imaging mode
- M mode
- CFM colour doppler mode
- PDI power doppler mode
- PW pulse doppler mode
- false colour imaging mode

Scanning Method:

Electronic linear, electronic convex, electronic microconvex, electronic phased array;

Imaging Technology:

Continuous High-precision Digital Beam-former
Dynamic Frequency Integration Imaging
High-precision Dynamic Receiving Focus
Super Wide-band Imaging Technology
Self-adaptive Image Optimization Processing
Multi-beam Imaging
Automatic Flow Volume Analysis
Compound Imaging
Panoramic Imaging
Self-adaptive Vascular Imaging
Self-adaptive Doppler Imaging
THI (Tissue Harmonic Imaging)
TDI (Tissue Doppler Imaging)



Image Processing

Pre-processing: 8-segment TGC
gross gain
dynamic range
gray map
smooth
acoustic power adjustment
scanning angle selection
Post-processing: edge enhancement
frame correlation
line correlation
γ-correction
contrast
brightness

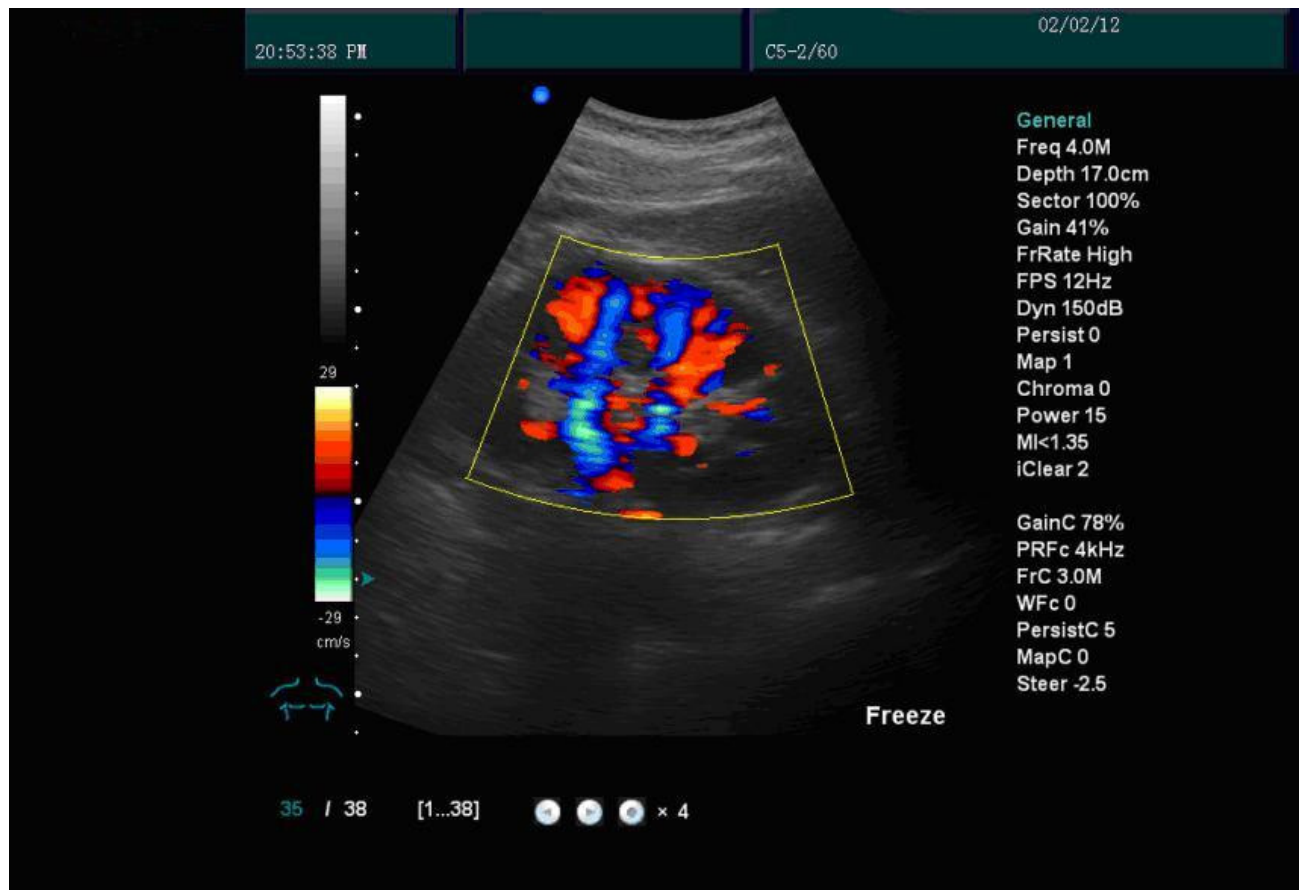
Sample Image 1



SCO Medical

Auf der Heide 15 | D- 37351 Dingelstädt
Federal Republic of Germany
Phone +49 (36075) 439-339 | Fax : -308
E: sco@sco-med.de | www.sco-med.de

Sample Image 2



Measurement & Calculation

- B-mode:** distance, circumference, area, volume, angle, residual urine volume, histogram, profile
M-mode: distance, time, velocity, heart rate
D-mode: doppler blood flow measurement, velocity, acceleration, pressure gradient, time, VI, PI, RI, etc

Software packages:

- Carotid:** IMT (Intima-media thickness) measurement uterus,
- GYN:** endometrium, ovary, cervix, ovarian follicle
- OB:** GS, CRL, LV, BPD, OFD, HC, TAD, LW, HW, TCD, IOD, OOD, BD, APTD, TTD, AC,APD, FTA, HL, ULNA, FL, FIB, CLAV, etc
- Cardiac:** TEI Index, Editable Cardiac report, PISA, M. Simpson, B-EF, M-EF (Pombo, Gibson, Teichholz), Diameter Function, PV flow, AV-Area, B-LV/Ao, M-LV/Ao, MV Regurg, customized annotation etc
- Urology:** volume of prostate, volume of bladder, volume of urine, volume of trans zone, HipJ.Angle (hip joint dislocation in neo-natal and babies), slice v, etc

Small Parts and Peripheral Vessels:

- vascular cross-sectional area, heart rate, stroke volume, flow per unit time, Ejection Time, % stenosis, mean velocity of flow, RI, PI, etc.

Probe information:

Electronic convex array transducer:	CA 3.5MHz/ R50 (2.0 - 6.0MHz)
Electronic linear array transducer:	LA 7.5MHz/ L40 (5.0 - 10.0MHz)
4D volume transducer :	CLA 4.5MHz (2.5 - 6.5MHz)
Electronic linear array transducer:	LA 7.5MHz/ L50 (5.0 - 10.0MHz)
Electronic linear array transducer:	LA 7.5MHz/ L40 (6 - 14.0MHz)
Phased array transducer:	PA 2.5MHz (2.0 - 4.0MHz)
Electronic endocavity transducer:	EV 6.5MHz/ R10 (5.0 - 9.0MHz)
Electronic micro-convex array transducer:	MC 3.5MHz/ R20 (2.0 6.0MHz)
Needle-guided brackets Footswitch	

