



High End Color Doppler Ultrasound Machine



SSD 6000 CD PRO



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High End Digital Color Doppler Ultrasound Machine



Features:

- High-End State-of-art Colour Doppler Equipment with Digital beam-forming with 14-bit ADC
- 21.5" 1920x1080 resolution medical grade LED monitor with tilt and swivel monitor
- Applications: Abdominal, Ob./Gyn., Urology, Oncology, Small Parts, Musculoskeletal, Breast, Cardiac, Vascular, Pediatric & Neonatal
- 13" touch panel for ease-of-use UI, Interactive soft-key controls, Adjustable height/rotation control panel
- Full keyboard supporting international character sets for text editing
- Display Format: B, 2B, 4B, M, B/D, B/M, B/C, B/C/MC, B/P, C/P, B/C/D, B/D/SCV
- Software-driven GPU/CUDA platform offers low-cost and high-performance system architecture with embedded signal and imaging processing algorithms to achieve the best imaging quality
- Independent B/C/D/M acoustic power and gain adjustment to have the best image quality in mixed modes
- Multiple transmit focusing and dynamic receive focusing to increase penetration and image resolution
- Optimization of B Gain, TGC, Color Gain, Dynamic Range, Speckle Reduction levels, Doppler Gain, Doppler Base Line on old images & old loops recalled from the image archive
- Steerable PW Doppler with angle corrections, Color Flow Mapping with various maps, M-Mode with variable sweep speed
- Multiple transmit focusing, Phase-inversion THI, Signal fusion, Spatial and frequency compounding
- Tissue Doppler and Strain Rate Mode, Doppler Spectrum Mode (PWD and CWD), CFM and Directional Power Doppler
- Built-in 256 GB SSD for operating system and 1TB HDD for storage of images
- CD-RW/DVD Drive as removable read, write, archive and storage, USB, S-Video, VGA
- Images can be stored onto an integrated DVD-R Multi-drive and a USB port storage device
- 16 times Zoom with pan capability in real-time or freeze B, C and M mode
- Shearwave Elastography for liver. Strain elastography for breast, thyroid, prostate etc
- Quantitative shear wave elasticity (SWE) for accurate hard lesion detection, e.g., the level of liver fibrosis & liver fat detection
- Fusion of THI and fundamental imaging (FHI) for better resolution from THI and deep penetration from fundamental. Offer varied transmit frequencies (VFHI) to further improve deep depth image resolution
- Supports parallel receive beams and vector data processing to increase frame rate over 2,000 fps
- AI-based Auto biometry OB measurements, Auto EF measurements and doppler analysis
- Overall gain, baseline shift, sweep sweep, dynamic range, inverted spectral waveform facility
- Vector Data Storage to save raw ultrasound signals for further analysis and parameter optimization
- Post Storage Image manipulation available for measurements, calculations and image enhancement feature
- Pre-processing and post-processing of images with raw data image storage
- Auto and manual angle correction (0-89 degree) in real-time & frozen modes
- Storage images in BMP, Tiff, JPEG, WMV, DCM and AVI format

SSD 6000 CD PRO

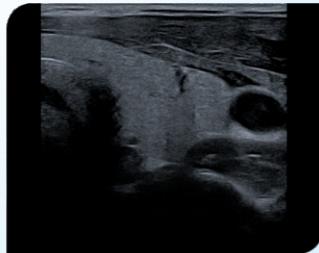
High End Digital Color Doppler Ultrasound Machine



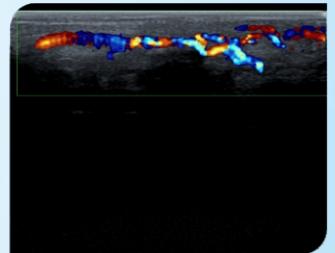
Liver



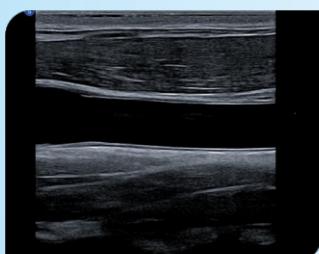
Kidney



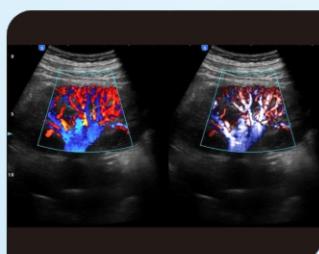
Thyroid



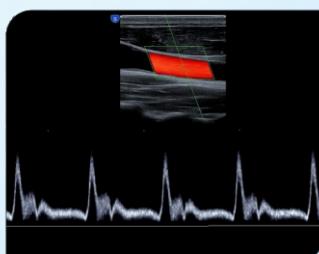
Finger Blood Flow



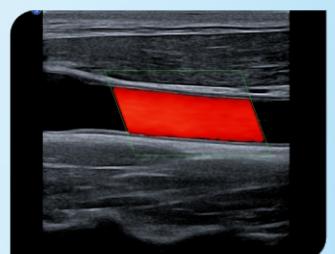
Carotid



Kidney C / Directional Power



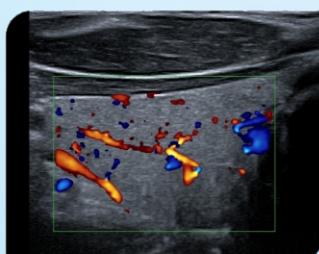
Carotid BCD



Carotid Blood Flow



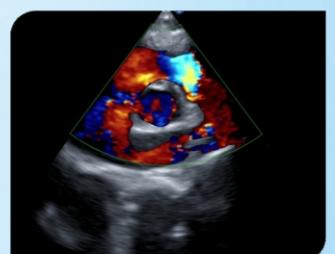
Fetal Heart 4 Chamber



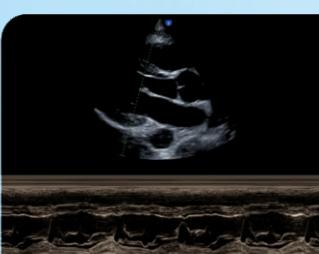
Thyroid Color



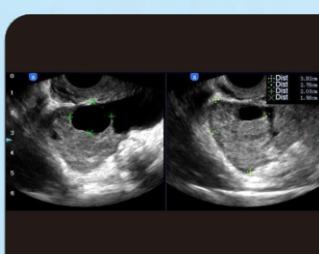
Carotid BCD



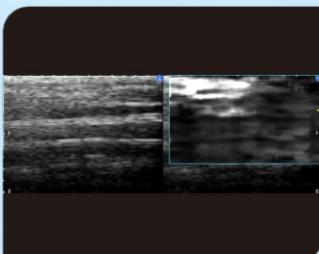
Carotid Blood Flow



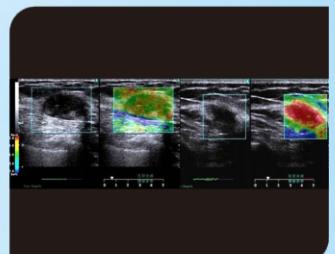
Cardiac M



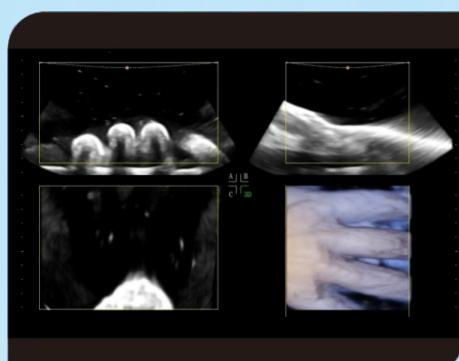
Ovarian Cyst



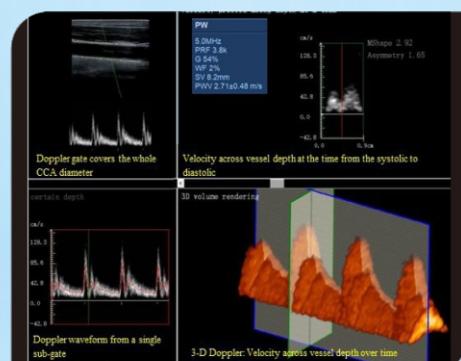
Achilles Tendon Edema
imaged with ARFI



Confirmed Breast Lesion
Left: Benign, Right: Malignant



4D Imaging



Carotid Multigate Spectrum

Technical Specifications

Clinical Application

- Latest software for Abdomen, Obstetrics, Gynecology, Small Organs, Cardiac, Vessel, Lungs, Urology, Cerebrovascular, Superficial, Peripheral, Pediatrics, Nerve and Muscle-bone & Emergency applications.

System Technical standards

- State-of-Art latest Ultrasound having 21.5" high resolution medical grade LED monitor with 178° viewing angle from all sides
- 13" high resolution touchscreen console with QWERTY keyboard with backlight key support & 5 adjustable parameter knobs
- Floating console with electronic adjustments for height, rotation & forward movement
- Four active universal probe connectors. Twin View and Live Quad Screen
- Built-in rechargeable battery with 3 hours backup
- Multiple pre-loaded as well as user configurable application presets
- Capability for archiving with storage & retrieval of images and clips with reporting facility
- Mounted on fully articulated arm with side to side, forward and backward movement
- All measurements can be done on frozen images & on archived images
- Measurement and calculation package with annotation facility for B, M and Doppler modes
- Facility for pre and post processing of images; Exam protocols, Thumbnail view, Digital Calipers
- Facility to store images by patient and to review images from different exam dates
- Comprehensive set of obstetrical, gynecologic and vascular calculations with summary reports
- Extended field-of-view imaging that operates by sweeping a transducer over the anatomy of interest in real-time manner
- HD acoustic zoom with pan capability in real-time or freeze B, C and M mode in real-time & frozen modes
- Quad display for live image and archive images on a single monitor for B-Mode / Colour / power Doppler image on either side
- Gray Scales ≥ 256; Gain: 0-100dB; Digital channels: 2,50,000; 8 step TGC, 8 step LGC, Frame rate: >2000fps
- Cine loop: Standard: 1,024 B-Mode, 520 color frames, 170 secs M-Mode data and 380 secs Doppler Spectrum;
- Extended cine memory to 20,000 B-mode frames; 1024 color frames, 1024 secs M and Doppler data; 120 secs stress echo
- Scanning depth : 2-40cm (depends upon type of probe); Dynamic Range: up to 280dB
- Built-in 256GB SSD for storage of images and 1TB hard disc drive. Boot up from off position: 90 secs
- Power Supply: 100-240V AC, 50/60 Hz single phase fitted with Indian plug
- I/O ports: USB 2.0 ports -3, USB 3.0 ports -2, S-video -1, LAN -1, HDMI -1, DICOM -1, Audio -1
- Support DICOM 3.0 connectivity to PACS
- PC connectivity
- Operating Temp.: 0-50 degree C, Relative Humidity: 15-90%
- Weight: 40 kg

Supported Multi-frequency Broadband / Single Crystal Transducers (Provided on demand)

- Electronic Single Crystal Convex Probe 2~8MHz with elastography & CEUS
- Electronic Single Crystal Linear Probe 5~12MHz with elastography & CEUS
- Electronic Broadband Trans-vaginal Probe 3~11MHz with elastography & CEUS
- Electronic Broadband Phased Array Cardiac Probe 1~5MHz; Paediatric TCD Sector probe 2-9 MHz
- Electronic Broadband Adult Micro-convex Probe 3~10MHz; Pediatric Micro-convex Probe 3~11MHz
- Electronic Broadband Hockey Stick Probe 8~18MHz
- Electronic Broadband Volume Convex Probe 1-6MHz
- Electronic Broadband Volume TV Probe 3-11MHz
- Electronic Broadband Sidefiring Biplane probe 8-24MHz
- Frequency Range: 1-24 MHz, Probe elements: >128 elements

Imaging Modes & Features

- B, B/B, B+M, B+C, B+D, B+C+D, M, Color, Color M, Power Doppler, Directional PD, PW, CW
- Anatomical M Mode; Curved AMM, Contrast Agent Imaging, Color Power Angio, CEUS
- Auto IMT, Auto NT, Auto OB, Auto Volume Flow, Stress Echo
- Duplex, Triplex, Quad imaging, B/M steer
- Auto Image Optimisation for B mode, CD & PW
- Spatial Compound Imaging with 7 lines on linear and convex probes
- Speckle Reduction Imaging
- Pulse Inverse harmonic imaging technique
- Tissue Harmonic Imaging (THI) in all probes
- Tissue Doppler Imaging (TDI)
- Tissue Adaptive Technology
- IMT - Internal Median Thickness
- Digital Multi-Beam forming
- Panoramic Imaging
- Trapezoidal Imaging
- Strain Elastography
- Shearwave Elastography
- 3D/4D Imaging

Accessories (On Demand)

- Biopsy Guide (reusable), B/W Thermal Printer, Color Laser Printer, Color Inkjet Printer, Computer, Gel Warmer, External CD / DVD drive, External Hard Disk 1TB, UPS, Patient Couch, Storage Cabinet, Computer Table, Revolving Chair etc



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