

CBit 6

Color Doppler System Datasheet

V2.0



General Information

Dimensions and Weight

- Dimensions of main unit (approx.): 806mm(Depth)*543mm(Width)*1470mm(Height)
- Net weight of main unit (approx): 51kg (no probe included)

Electrical Power

- Power supply voltage: Auto adaptable for AC100-240V
- Power supply frequency: 50-60 Hz
- Power consumption: 600 VA

User Interface

Operation Panel

- Control panel
- 10.1 inch Touch screen
- Alphanumeric keyboard
- 8 TGC Slides
- Interactive backlit keys
- High resolution color LED
 - Diagonal dimension: 21.5 inch
 - Brightness and contrast adjustment
- Integrated speaker
 - Volume adjustable

System Overview

Applications

- Abdominal (Gynecology & Urology)
- Fetal/OB
- Small Parts (Breast,Scrotum,Thyroid)
- Pediatric
- Peripheral Vascular
- Musculo-skeletal Conventional & Superficial
- Cardiac (adult & pediatric)
- Transvaginal

Scanning Method

- Electronic convex
- Electronic linear
- Electronic micro convex
- Electronic phased array
- Volume convex

Transducer Types

- Convex transducer: D3C60L
- Linear transducer: D7L40L
- Linear transducer: D12L40L
- Trans-vaginal transducer: D6C12L
- Trans-vaginal transducer: D7C10L
- Phased array transducer: D3P64L
- Phased array transducer: D5P64L
- Linear transducer: D7L40L-REC
- Volume transducer: V4C40L
- Micro convex transducer: D6C15L

- Micro convex transducer: D3C20L

Image Modes

- B Mode
- B/M mode
- M mode
- 2B Mode
- 4B Mode
- CFM Mode
- 2D Steer
- PD Mode
- DPD Mode
- PW Mode
- B/BC Mode
- Triplex
- Quadplex
- CW Mode
- Free Steering M Mode
- TDI
- Color M Mode
- Curved Panoramic Imaging
- Trapezoidal imaging
- Compound
- SRA
- Elastography
- ECG
- Super Needle
- 4D
- Virtual HD
- FHI mode
- AIO

Display Mode

- Quad/Dual display
- Duplex mode

- Triplex mode
- Quadplex mode

Display Annotation

- Hospital name
- Date/Time
- Patient Name and Patient ID
- System status
- Gray/Color bar
- Cine guide
- Scanning direction
- Measurement summary window
- Measurement results window
- Transducer type
- Frequency
- Application name
- Menu indication
- Trackball functions indication
- Imaging parameters displayed on the screen

Standard Configuration

- 21.5 inch LED monitor
- 10.1 inch touch screen
- 4 active transducer ports
- 500G integrated hard disk
- DVD-R/W
- USB ports:6
- 4D module
- CW module
- TGC, LGC
- B, 2B, 4B, B/M, B/BC, CFM, PW, Power Doppler/Directional PD, Instant Triplex, Duplex, Quadplex, Trapezoidal, Chroma B&M&PW, Full Screen
- Automatic PW trace and measurement in real time
- Super Image module: FHI, Multiple Compound Imaging, SRA (Speckle Reduction Algorithm), AIO

- Q-Image (intelligent image optimization), X-contrast, Q-beam, Q-Flow
- Measurement & calculation software packages: General, OB&GYN, Cardiac, Vascular, URO, Small Parts, Pediatrics, Carotid, Abdomen, TCD
- 2D Steer
- Cardiovascular: CW, TDI, IMT, Color M mode

Software Options

- Virtual HD/ Depth View
- Niche/ Smart Volume Slice
- Elastography
- Super Needle
- Curved Panoramic
- Extended Cardiac Package: ECG Software, Free Steering M, Color M mode, TDI, CWD
- DICOM 3.0
- WIFI Function
- Biopsy kit: for convex/linear/TV/3.0 MHz Micro-Convex probe respectively
- 4D
- IMT (Auto)
- Super Needle
- 2D Steer
- HIPPA
- Curved Expanding
- Intelligent Doppler
- UltraRemote
- SonoAI OB
- SonoColor
- Static 3D
- HD 3D

Hardware Option

- Footswitch
- ECG Lead
- GEL WARMER

Peripherals

CHISON Medical Technologies Co., Ltd.

No.3 Changjiang South Road, Xinwu District, Wuxi, 214028 Jiangsu, P.R. China

Tel: 086-510-8531-0197/0593/1707

Fax: 0086-510-85310726

Website: www.chison.com

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- SONY UP-D898MD/X898MD
- SONY UP-D711MD
- SONY UP-D25MD
- MITSUBISHI P95D
- HP Officejet Pro 6230
- HP Laserjet Professional P1108
- HP Laserjet Professional P1102w
- HP Laserjet Pro M12a
- HP Laserjet 200 color M251n
- HP Laserjet 1020
- HP Deskjet 1010 series
- HP Color Laserjet Pro M252n
- HP Color Laserjet Pro M252dw
- EPSON L805 Series
- EPSON L380 Series
- EPSON L310 Series
- EPSON L130 Series
- EPSON L120 Series
- Canon SELPHY CP910
- Canon SELPHY CP1200



Imaging
Processing and
Presentation

B Mode

- Gain
- Compound
- SRA
- Focus Number
- Focus Position
- Full Screen

- X-contrast
- Persistence
- Density
- 2D Map
- Noise Reject
- Scan Width
- Image Rotate
- Gamma
- Chroma
- Smooth
- Edge enhance
- A.power
- Frequency
- Dynamic
- Depth
- Zoom
- TGC
- Center Line
- Trapezoidal Mode
- Biopsy
- Biopsy Level
- Super Needle
- Needle angle
- Elastography
- 2D steer
- AIO
- Q-image
- Curved Expanding
- Curved Panoramic
- FHI

M Mode

- Gain
- Layout

- Display Format
- Chroma
- Free M Mode
- Color Map
- 2D map
- Dynamic
- Speed

Color Mode

- Gain
- Color Map
- Color Invert
- Q-flow
- Q-beam
- Persistence
- Color Mode
- Wall Filter
- Density
- Wall Thre
- Blood Efection
- B/BC
- Frequency
- Baseline
- Steer
- PRF

CPA/DPD Mode

- Gain
- Wall Filter
- Q-beam
- Q-flow
- Wall Thre
- Persistence
- Frequency
- PRF

- Steer
- Color Map

PW Mode

- Gain
- 2D Map
- Wall Filter
- Spectrum Enhance
- Dynamic Range
- Invert
- Display format
- Triplex
- Quadplex
- Auto Cal Parameter
- DTrace Smooth
- Threshold
- DVmean
- DVmax
- Trace area
- Audio
- Color Map
- QuickAngle
- Auto Cal
- Freq
- Baseline
- PRF
- Steer
- Speed

CW Mode

- Gain
- 2D Map
- Spectrum Enhance
- Dynamic
- Audio

- Wall Filter
- Color Map
- QuickAngle
- Baseline
- PRF
- Speed
- Display format

Cine loop

- Support 2D, M, PW, CFM, CPA, DPD, CW, Color M, Free Steering M
- Simultaneous and independent review in duplex mode
- Cine loop auto/manual
- Variable cine playback speed
- User-define start and end frame of cine storage
- User-define start and end frame of cine review
- storage in hard disk and display in real-time modes
- Slide show: slide show function

Storage

- 500GB integrated hard drive
- DVD-R/W driver
- USB ports
- Still images storage format: IMAG
- Still images export format: BMP, JPG, DCM, PNG, TIFF
- Cine loops storage format: CINE
- Cine loops export format: AVI
- Fast storage setting

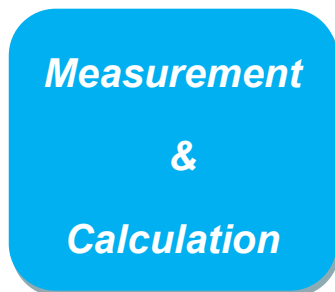
EasyView

- Image review Layout: $1 \times 1, 2 \times 2, 1 \times 2$
- Image management

Exam Review

- Search Exam
- Exam review: patient view, study view
- Exam management

- Delete selected exam
- Export selected exam
- Backup selected exam
- Recover from the backup exam
- Selected all
- Expand all
- Collapse all
- Edit selected Exam
- Review selected Exam
- Continue selected Exam



General Measurement Package

- Software packages for various specific clinical use
- Comprehensive analysis methods
- Clinical analysis reports

General measurement package

- B mode normal measurement
 - Distance
 - Length__Area (Ellipse)
 - Length__Area (Trace)
 - Volume (1 Distance)
 - Volume (2 Distance)
 - Volume (3 Distance)
 - Volume (1 Ellipse)
 - Volume (2 Ellipse)
 - Volume (1 Distance 1 Ellipse)
 - Ratio
 - Angle

- Strain Ratio
- HR Manual
- SonoColor
- M mode normal measurement
 - MDistance
 - MTime
 - Velocity
 - HR
 - HR Manual
- PW mode Normal measurement
 - Velocity
 - Distance
 - Peak
 - Auto Trace
 - Manual Trace
 - StD%
 - StA%
 - Area
 - ICA/CCA
 - HR
 - Volume Flow
 - HR Manual

Clinical Analysis Packages

- OB
- GYN
- URO
- Cardiac
- Vascular
- Small parts
- Pediatrics
- TCD
- Abdomen
- Carotid
- General

System Setup

By using system setup, users could

- Customize hospital information
- Customize language
- Customize fast storage time
- Customize color map
- Customize functions to Footswitch, P1 key, Print key
- Customize functions to alphanumeric 0~9
- Customize PC and Video Print Option
- Customize Measure
- Customize Comment library
- Customize Report

User Define Functions

By user-define function, users could customize user-define preset, including

- Applications name, Presets name
- Applications exam type
- Imaging parameters

Multi-language Display Interface

- English
- Chinese
- Other languages

Note: other languages for detailed, please contact CHISON.

Inputs & Outputs

- AC Power In: 1
- AC power Out: 1
- Power Button: 1

- USB Port: 6
- Ethernet: 1
- Remote Control: 1
- S-Video Out: 1
- Audio: L,R
- DVI: 1
- VGA Out: 1
- Video Out: 1
- Footswitch Port: 2
- Ground pole: 1



Operating Conditions

- Ambient temperature: 10°C to 40°C
- Relative humidity: 30% to 75% (no condensation)
- Atmospheric pressure: 700 hPa to 1060 hPa

Storage and Transport Conditions

- Ambient temperature: -5°C to 40°C
- Relative humidity: ≤80% (no condensation)
- Atmospheric pressure: 700 hPa to 1060 hPa

Not all features or specifications described in this document may be available.

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