

CBit 9

Color Doppler System Datasheet

V1.0



General Information

Dimensions and Weight

- Dimensions of main unit (approx.): 810mm(Depth)*635mm(Width)*1330mm(Height)
- Net weight of main unit (approx): 76kg (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
- Gel Warmer
- Alphanumeric keyboard
- 8 TGC Slides
- Interactive backlit keys
- High resolution color LCD
 - Diagonal dimension: 21.5 inch
 - Brightness and contrast adjustment
- Integrated speaker
 - Volume adjustable

System Overview

Applications

- Abdominal (Gynecology & Urology)
- Fetal/OB
- Small Organ (Breast, Testes, 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
- Volume transducer: V4C40L
- Micro convex transducer: D6C15L
- Micro convex transducer: D3C20L

- Single crystal linear transducer: M8L40L
- High density transducer: M8L50L
- High density transducer: M8L60L
- TEE transducer
- Bi-plane transducer

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
- Stress echo
- 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 LCD monitor
- 10.1 inch touch screen
- Convex transducer D3C60L
- Liner transducer D7L40L
- 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
- 2D Steer
- Cardiovascular: CW, TDI, IMT

Software Options

- Virtual HD/Depth View
- Niche/ Smart Volume Slice
- Free hand 3D
- Free NT
- Strain and Strain Ratio
- LV Tracking
- Stress Echo
- Elastography
- Super Needle
- Needle Tracking
- Curved Panoramic
- Extended Cardiac Package: ECG Software, Free Steering M, Color M
- DICOM 3.0
- WIFI Function
- Biopsy kit: for convex/linear/TV/3.0 MHz Micro-Convex probe respectively

Hardware Option

- Footswitch
- ECG Lead

Peripherals

- SONY UP-X898MD B&W Video Printer

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
- Smooth
- Edge enhance
- A.power
- Frequency
- Dynamic
- Depth
- Zoom
- TGC
- Scanning direction
- Center Line
- Trapezoidal Mode
- Biopsy
- Super Needle

- Elastography
- 2D steer

M Mode

- Gain
- Layout
- Display Format
- Chroma
- Free M Mode
- Color Map
- Dynamic
- Speed

Color Mode

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

CPA/DPD Mode

- Gain
- Wall Filter

- Blood Effecton
- Q-beam
- Q-flow
- Wall Thre
- Persistence
- Frequency
- PRF
- Steer
- Color Map

PW Mode

- Gain
- 2D Map
- Wall Filter
- Spectrum Enhance
- Dynamic Range
- Auto Cal Parameter
- DTrace Smooth
- Threshold
- DVmean
- DVmax
- Trace area
- Layout
- 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
- Layout
- Baseline
- PRF
- Speed

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

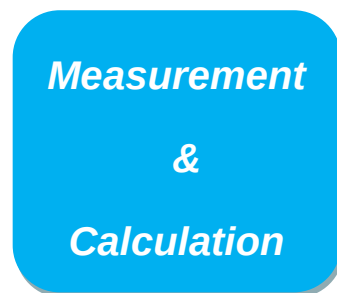
- 500GB integrated hard drive
- DVD-R/W driver
- USB ports
- Still images storage format: IMAG
- Still images export format: BMP, JPG, DCM, PNG, TIFF
- Cine loops storage format: CINE
- Cine loops export format: AVI
- Fast storage setting

EasyView

- Image review Layout: 1×1, 2×2
- 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

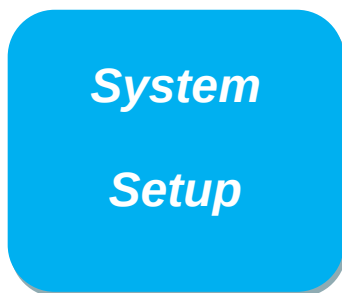
Angle

Strain Ratio

- M mode normal measurement
- PW mode Normal measurement

Clinical Analysis Packages

- OB
- GYN
- URO
- Cardiac
- Vessel
- Small parts
- Pediatrics
- TCD
- Breast



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.

CHISON Medical Technologies Co., Ltd. reserves the right to make changes in specifications and features shown herein, or discontinues the product at any time without notice or obligation. For the most current information, Contact CHISON Representative.