The Latest Portable Digital Color Doppler System

V3 Data Sheet

Powered by brand new platform Realview+, V3 Latest portable digital color Doppler imaging system provides comprehensive professional solution kit supports all-round diagnosis with exceptional imaging performance and efficient workflow.

Highlights

- *MFI*
- *X-Beam*
- *Nanoview*
- *S-Station*
- *S-View*
- *S-helper*

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General Specification

Dimension	
Gross dimension (mm)	560*485*220
Net dimension (mm)	402*310.5*67.4

Weight	
Net weight	4.2kg (including 1 battery)

Power Requirements	
Battery (Detachable)	Rated Voltage: DC 11.1V Charging Voltage: DC 12.6V Rated Capacity: 7500mAh, 83.25Wh
Adapter	Input: AC 100-240V, 2.5A, 50 Hz/60Hz Output: DC 15V, 10A Rated Power: 120VA

Operation Conditions	
Ambient temperature	0℃ to +40℃
Relative humidity	30% to 85%
Atmospheric pressure	70kPa to 106kPa

Stored Conditions	
Ambient temperature	-20℃ to +60℃
Relative humidity	15% to 93%
Atmospheric pressure	50kPa ~ 106kPa

Connectivity
HDMI port (extendable to PAL/NTSC mode switcher/ S-video/ Video port)
Type-C port
Network port
USB 3.0 port
ECG port
Adapter port

Appearance	
Ergonomic appearance	
Monitor	· 15.6" high resolution color monitor · Angle Adjustment Lean back 180° · Visual Angle L&R 85°/U&D 85°
Control panel	· Backlit keyboard · 6 TGC (Optional:8 TGC)
Battery (Detachable)	· Working Time:About 120 mins
One Active Probe Connector	
Solid State Disk: 1T	

System Overview

Standard Features	
Frequency	·Fundamental Frequency ·THI (Tissue Harmonic imaging) ·MFI (Inversion THI) ·Fusion Frequency: Pen/Gen/Res
Speckle reduction	·Nanoview
X-Beam	·Compound Imaging
Series customization	·Examination customization ·Measurement customization ·Annotation customization ·Bodymark customization ·Report template customization
Quick ID	
Q-Preset	
Trapezoidal/Extend imaging	
Duplex/Triplex	
Panoscope	
Auto IMT	
Auto Volume	
Auto Flow	
M	
CFM/PDI/DPDI/VS Flow	
PW/HPRF	
Semi-auto EF	

S-View
S-Station
Account management
Smarchive
Historical Archive Query

Spectrum measurement	· Auto Trace · Semi Auto Trace · Manual

Reverse Import
Cursor Zoom
Raw Data Analysis

Auto-Fit	Automatic Optimization

Post Processing

Optional Features

DICOM 3.0 (Basic)
DICOM 3.0 (Advance)
PV Imaging
Strain Elastography
Needle Enhancement
Micro Flow
TDI (TVI,TVM,TVD)
AMM
ECG
Free Hand 3D
4D Pro
Lumi 4D Lite
MyWorkflow
Sono Air

Standard Accessories

Video cable	· HDMI cable · S-video cable
Power Cable	
Operation Manual	
Recovery System USB	
HDMI Video Converter	
Power Adapter	
Fabric Cover	
ECG Cable	

Optional Accessories

Biopsy Guide	
Trolley	· CR-12 · CR-50
Probe Switcher	· TQ-B016(Extends 1 socket to 4 sockets;Metal shell)
Trolley Case	
Trolley Backpack	

Display Mode

B	· B, 2B, 4B
M	· M, B+M · B+M+CFM · B+TDI+M · AMM
B+Color	· B+CFM, B+PDI, B+DPDI · B+VS Flow · Split B/CFM
B+Spectrum	· B+PW · HPRF
B+Color+ Spectrum	· B+CFM+PW · B+PDI+PW · B+DPDI+PW · B+VS Flow+PW
Extend Mode	· Trapezoid/Ext (Convex probe) · Panoscope

System Parameters

General Parameters

GPU+CPU	
Windows 10	
System language	· English, Russian, Spanish, French, German, Italian

Input language	· English

Broadband/Multi-Frequency Technology

Digital LGC & Digital TGC	
Gray scale	· 256
Dynamic Range	· 30-245dB
Max. Frame Rate	· Based on probe and mode
Maximum image display depth	· Based on probe
Zoom	· HD Zoom · Full-View Zoom · Full Screen
Focus	· Continuous dynamic focus · 1-8 selectable transmit focus · SF(Small Focus)

6-step TGC slide pots

2D Mode

· BG(B Gain)
· Depth
· Frequency
· X-Beam
· ENH(Edge Enhancement)
· Smooth
· Nanoview
· Persistence
· Chroma
· Gray Map
· Power
· B steer (Linear probe)
· B rotation
· TSI
· Line density
· Inversion
· Dual View/ Quad View

M Mode

· MG(M Gain)
· Sweep speed
· Gray Map
· Chroma
· Display layout
· AMM

CFM/PDI/DPDI Mode

· CG(C Gain)
· Scale(PRF)
· Frequency
· Wall filter
· C Priority
· C Gate
· Median Filter
· Thred
· Color Map
· Smooth
· Color persistence
· Line density
· Color enhancement
· B MIX
· MIX
· Power
· Baseline (CFM)
· Steer (Linear probe)
· Tag Range(CFM)
· Tag Position(CFM)
· Color Hidden
· B/C split
· VS Flow
· Color U/D

PW Mode

· PWG(PW Gain)
· Frequency
· Gray Map
· Chroma
· Scale(PRF)
· Duplex /Triplex(PW)
· Baseline
· Steer (Linear probe, PW)
· Wall filter
· Angle
· SV(Sampling volume) (PW)
· Volume
· Sweep Speed
· Smooth
· Power
· Auto Trace
· Display layout
· Trace Type
· Trace Correction
· Trace Sensitivity

Auto Fit

The system can reduce noise and artifacts purify tissue shading and edging improve contrast resolution and help early identification of tissue/structure lesion

Available on B/CFM/PW

Post Processing

Parameter or mode can be adjusted in the saved original data image or movie, it helps to better diagnose the lesion

Available on B/CFM/PW/M mode

Quick ID

Quickly create ID, no need to input patient information, suitable for emergency situations

Q-Preset

Without entering the setup interface, the user-defined parameters can be saved quickly with one click to improve the operation efficiency

Archive Data Protection

The system will automatically continue the last exam if it is ended abnormally, it helps to protect archive data

Historical File Query

After inputting the patient ID, the system will automatically search for the existence of previous files, so that doctors can consult and quickly understand the patient's situation

S-View

File comparison function to simultaneously compare multiple files, including images and films

S-Station

Image processing system to select or create report templates, and quickly add system default report entries

Reverse Import

General measurement results can be set as specialty measurement items and be used in related calculations

Measurement Cursor Zoom

During the measurement process, the enlarged image around the measurement cursor is displayed in the lower right corner of the screen, which is suitable for the measurement of small lesions and accurate positioning

Trapezoidal (Virtual Convex)

Available on linear transducers

Extended Angle: L/R 15°

Panoscope

Available on Linear/Convex/Phased array transducers

Scale mark

Advance function	Measure, Annot, Zoom, Rotate, Crop

Color Panoscope

Needle Enhancement

based on the ultrasonic beam deflection and imaging fusion, needle enhancement is used to strengthen the view of biopsy needle. Cooperated with the custom biopsy guides with adjustable needle angle available, it implements an effective biopsy for tumor.

Steer Correction

Auto Enhance

VS Flow

VS-Flow significantly upgrades the sensitivity and resolution of blood flow which helps doctors to maximize the clinical application value

Auto IMT

Auto IMT greatly improve the accuracy of intima-media measurement, simultaneously measure the thickness of anterior and posterior intima-media, and improve the clinical efficiency

Calculation

Measurement package	General,Abdomen, Repro(Cat), Repro(Dog), Small Part,Cardiology, Cardiology(Cat), Cardiology(dog)

Expand the measurement menu automatically

Measurement Rule: Repeat, Next, Non

Measurement Across Modes	Measurement items in different modes are contained in the same measurement package. When the mode is activated, the corresponding measurement items are also activated

Measurement Result	· Reverse Import · Delete any measurement item at will · Move location at will · Adjustable size and color

Smarchive

Display the number of images in each archive

Preview images and movies without entering archives

Archive Backup Function

Archive Transmission	·Background transmission ·Multi path simultaneous transmission ·Task manager to view the transfer progress

Worksheet

Measurement results are placed in the front, which can be viewed without the need to enter the worksheet

Specialty worksheet for easy viewing and comparing the measurement results of various exam types

Worksheet interface supports modifying patient information

Report type	PDF,HTML

S-Station

Memory

Film Length	2D playback: 1~10000 frames M PW DVR record
Image Format	Raw data(sfm)/BMP/JPG/ DCM/TIFF
Cine Format	Raw data(cin) /AVI/ MP4/ DCM

Reedit the movie playback area

2B/4B movie playback simultaneously

Store forward or backward