



CHISON
Value Beyond Imaging

ECO1 VET
Premium Design, Surprising Price

ECO1VET



WWW.CHISON.COM

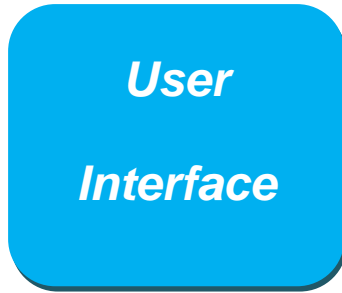
**General
Information**

Dimensions and Weight

- Dimensions of main unit (approx.):
335 mm (Length) * 155 mm (Width) * 350 mm (Height)
- Net weight of main unit (approx): 6.0 kg (no probe included)

Electrical Power

- Adapter Power supply voltage: AC100-240V 50/60Hz
- Main system power input: 19V 3.16A
- Battery type: BT-2500 Li-ion 14.8V 4400mAh



Operation Keyboard

- Fold-up Control Panel and Alphanumeric Keyboard
- Back-lit Keyboard for Good Visibility in Dark Room
- Interactive Back-Lighting
- Indicator Lights Identify Activated Keys
- 8 TGC Slides for Easy Adjustment
- Short Cut knob for Quick Adjustment
- Neat & Clear Keyboard Layout, Doctor Can Remember Easily
- Print Directly from the Keyboard

Display Screen

- High resolution color LED
 - Diagonal dimension: 12 inch
 - Resolution: 1024X768
 - Angle adjustable:0-30°

System Overview

Applications

- Abdomen
- Cardiology
- Obstetrics
- Gynecology
- Urology
- Vascular
- Small Parts
- Pediatrics

Scanning Method

- Electronic convex
- Electronic linear
- Electronic micro-convex

Transducer Types

- C3-A convex probe, center frequency 3.5MHz
- L7M -A linear probe, center frequency 7.5MHz
- L7S-A linear probe, center frequency 9.0MHz
- MC5-A micro-convex probe, center frequency 5.0MHz
- MC6-A micro-convex probe, center frequency 6.0MHz
- L7V-A linear rectal probe, center frequency 8.0MHz

Image Modes

- B mode
- M mode

Display Mode

- Quad/dual display (for B mode)
- Duplex mode: B/M

Display Annotation

- Institution/Hospital name
- Date/Time
- Patient Name and Patient ID
- System status (real-time or frozen)
- Gray bar
- Cine guide
- Scanning direction
- Measurement summary window
- Measurement results window
- Probe type
- Application name
- Menu indication
- Imaging parameters displayed on the screen

Standard Configuration

- High resolution 12 Inch LED display
- 1 active probe port
- 256M high speed memory (95 still bmp format images)
- USB ports : 3 Memory Stick (Kingston DTI/2GB recommended);
- Ethernet port
- video out port
- VGA out port
- Footswitch port
- General measurement package
- Clinical measurement package
- Multi-language screen display

- EASYVIEW™: image archive system
- Patient information management system
- Building reporting system
- Intelligent Zoom
 - Real-time Zoom,4 steps
- 7.5Mhz linear rectal probe L7M-A

Software Options

- DICOM 3.0

Hardware Options

- L7V-A transrectal linear probe, center frequency 7.5MHz
- L7S-A linear probe, center frequency 9.0MHz
- MC5-A micro-convex probe, center frequency 5.0MHz
- MC3-A convex probe, center frequency 3.5Mhz
- 6.5MHz Micro-convex probe, MC6-A
- Biopsy guide for C3-A, L7M-A, MC6-A
- BT-2500 li-ion battery
- Water-proof cover
- Trolley TR-8000
- Carry bag BG-100

Peripherals

- Video printer: Mitsubishi P93W; Sony UP-897MD
- PC printer : HP 2055d
- Car charger

Imaging
Processing and
Presentation

B Mode

- Acoustic power (15 steps)
- Gain (0~255)
- TGC (8 segments)
- Frequency(depend on the probe types)
- Depth (3.7~23.6cm, depend on the probe types)
- Focus number (1~4, depend on the probe types)
- Focus position (depend on the probe types)
- Scan width (14%, 43%, 71%, 100%))
- Density (Low ,High)
- Dynamic (30~90dB)
- Smooth (0~7)
- Edge enhancement (0~7)
- 2D map 5 types
- Gama(0-8)
- B rejection(0-256)
- Invert (left/right, up/down)
- Zoom(4 steps)

M Mode

- Sweep speed (4 steps)
- Chroma(0-8)

Cineloop

- Support 2D, M
- Cineloop auto/manual
- Capacity:256 frames

Storage

- 256M high speed memory
- USB ports
- Still images storage format: image and jpg
- Cine loops storage format: Cine (256frames/8s)

EASYVIEW™

- Image review Layout: 1X1; 2×2; 4×4;
- Image management
 - Delete selected image
 - Export selected image
 - Recall selected image
 - Collapse all
 - Send selected image by DICOM
 - Multi Select

**Measurement
&
Calculation**

General Measurement Package

- Software packages for various specific clinical use
- Comprehensive analysis methods
- Clinical analysis reports
- **General measurement package**
- General B mode measurement
 - Distance
 - CIR/Area (Ellipse)
 - CIR/Area (Trace)
 - Volume(1Distance)
 - Volume(1Ellipse)
 - Volume (2Distance)
 - Volume (3Distance)
 - Volume(1Distance1Ellipse)
 - Ratio(distance/ellipse area/trace area)
 - Angle
 - Histogram(rectangular/ellipse/trace)
 - profile
- General M mode measurement
 - M distance
 - M Time
 - Velocity
 - Heart_Rate

Clinical Analysis Packages

- Canine
 - CRL
 - HD
 - BD
 - Volume

- Thyroid
- Bladder Volume
- Feline
 - HD
 - BD
 - Volume
 - Thyroid
 - Bladder Volume

- Equine
 - GSD
 - Volume
 - Thyroid
 - Bladder Volume

- Bovine
 - BPD
 - CRL
 - TD
 - Volume
 - Thyroid
 - Bladder Volume
 - iliac

- Ovine
 - BPD
 - CRL
 - TD
 - GSD
 - Volume
 - Thyroid
 - Bladder Volume

System Setup

By using system Setup, users could

- Customize hospital information
- Customize date-time and regional
- Customize language
- Customize screen saving type
- Customize comment library
- Customize measurement formula
- Customize exam mode configuration
- Customize output types

Multi-language

- English
- Chinese
- Czech







Operation System

Windows Linux Embedded

Transducers

Transducer Selection

- One transducer port

Probe Name	Outlook	Probe Type	Main Frequency	Frequency Range(MHz)	Application
L7V-A		Linear Length=50mm	8.0Mhz	5.3 6.5 8.0 10.0	Big animal reproduction
C3-A		Convex R=60mm	3.5MHz	2.5 3.5 4.5 5.0	ABD,OB/GYN.URO
L7M-A		Linear L=40mm	7.5MHz	5.3 6.5 7.5 10	Vessel, Small Parts, Equine tendon
L7S-A		Linear L=30mm	9.0MHz	5.3 6.5 9.0 11	Vessel, Small Parts, Equine tendon
MC6-A		Micro Convex R=15	6.5MHz	4.5 5.0 6.5 8.0	Canine abdomen; Feline abdomen; Small animal cardiac
MC5-A		Micro-Convex R=20	5.0MHz	4.0 5.0 6.0 7.0	Canine abdomen; Feline abdomen

*Inputs
&
Outputs*

- S-video: 1
- VGA: 1
- USB port: 3
- Ethernet: 1
- Remote Port 1
- Footswitch port 1
- System power in: 1
- Power button: 1

Operating Conditions

- Temperature: 10° C ~ 40° C
- Relative Humidity: 30%~75%, non-condensing
- Atmosphere Pressure: 700hPa ~ 1060hPa

Storage Conditions

- Temperature: $-25^{\circ}\text{C} \sim 55^{\circ}\text{C}$
- Relative Humidity: $\leq 95\%$ non-condensing
- Atmosphere Pressure: $700\text{hPa} \sim 1060\text{hPa}$



- ISO 10993 Biological evaluation of medical devices

*Design
Standards*

- IEC 60601-1 Electrical medical equipment
- IEC 60601-1-1 Electrical medical equipment
- IEC 60601-1-2 Electromagnetic compatibility
- IEC 60601-1-4 Programmable medical systems
- IEC 60601-2-37 Comply with the IEC60601-2-37

Not all features or specifications described in this document may be available in all probes and/or modes.

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