

# MORTARA ELI 150C



## ABOUT

The **Mortara ELI 150C** is a 12-lead resting electrocardiograph used for ECG acquisition, analysis, and storage in clinical environments. It supports portable operation and network connectivity for transferring ECG data to hospital systems. The unit records, processes, and displays ECG waveforms and supports automated interpretation using built-in analysis software. It can be used with adult and pediatric patients.

## FEATURES

- **Portable:** Compact ECG unit weighing approximately 7.2 lb with a sealed elastomer keyboard and backlit color display.
- **Acquisition Module:** Compatible with the AM12 acquisition module or the Wireless Acquisition Module for cable-free ECG acquisition and rhythm printing.
- **ECG Interpretatio:** Includes the VERITAS resting ECG interpretation algorithm, which applies adult and pediatric specific criteria for preliminary analysis.
- **Signal Processing:** Uses Best 10 technology to select a 10-second ECG segment with reduced noise for display and printing.
- **Data Securit:** Supports user authentication, audit trail logging, and 256-bit AES encryption to assist with compliance requirements.
- **Network Connectivity:** Supports LAN and WLAN communication using HL7, DICOM, PDF, and XML formats for transfer to EHR, PACS, or CVIS systems.
- **Recording Resolution:** Uses a 20-bit analog-to-digital converter with a sampling rate of up to 40,000 samples per second per channel for waveform recording and pacemaker spike detection.



# SPECIFICATIONS



## DIMENSIONS

**Height:** 3.75 in (9.5 cm)

**Width:** 11.25 in (28.6 cm)

**Depth:** 11.5 in (29.2 cm)

**Weight:** 7.2 lbs (3.3 kg) including battery (without paper).

## POWER

**AC Input:** Universal AC power supply, 100-240 VAC, 50/60 Hz, 110 VA.

**Battery:** Internal rechargeable battery for portable operation.

## ECG ACQUISITION & PERFORMANCE

**Input Channels:** Simultaneous acquisition of all 12 leads.

**Standard Leads:** I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6.

**Digital Sampling Rate:** 40,000 samples/sec/channel (for pacemaker detection); 1,000 samples/sec/channel (for recording/analysis).

**A/D Conversion:** 20 bits (1.17 microvolt LSB).

**Frequency Response:** 0.05 to 300 Hz.

**Input Dynamic Range/CMRR/Impedance:** Meets or exceeds IEC 60601-2-25 requirements.

## DISPLAY & PRINTING

**Display:** Backlit, 1/4 VGA color LCD (320 x 240 pixels). Waveform display in 3, 4+4, or 6+6 lead presentations.

**Printer:** Computer-controlled dot array thermal printer (8 dots/mm).

**Paper:** Perforated double Z-fold thermal paper; 108 mm (4.25in) wide, 200 sheets.

**Print Speeds:** 5, 10, 25, or 50 mm/s.

**Gain Settings:** 5, 10, or 20 mm/mV.

**Report Formats:** Standard or Cabrera; 3, 3+1, 3+3, or 6 channel.

## DATA MANAGEMENT & SAFETY

**ECG Storage:** Internal storage for up to 40 ECGs; optional expansion to 200 ECGs.

**Connectivity:** Bidirectional via LAN or WLAN using XML, PDF, DICOM, and HL7 protocols.

**Safety Standards:** Patient and chassis leakage currents meet or exceed ANSI/AAMI/IEC 60601-1 requirements.

## FILTERS

Includes high-performance baseline filter, selectable AC interference filter (50/60 Hz), and low-pass filters (40 Hz, 150 Hz, or 300 Hz).