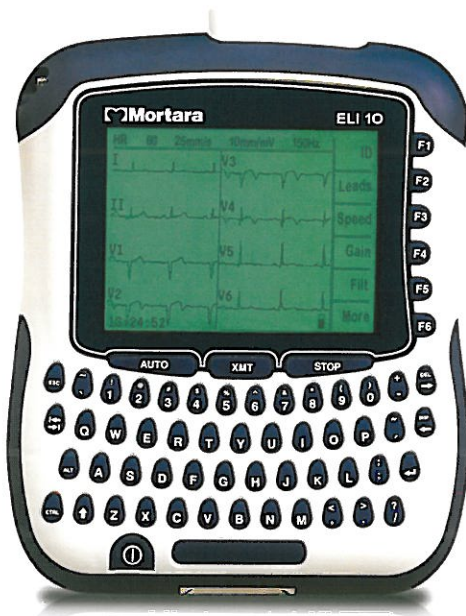


ELI 10

MORTARA'S NEXT GENERATION 12-LEAD RESTING ELECTROCARDIOGRAPHS



PRODUCT FEATURES

- **Convenient Handheld Device**
Compact and lightweight, the ELI™ 10 electrocardiograph provides full-featured functionality in an ultra-portable, handheld device.
- **ECG Preview and Printing**
High-resolution backlit LCD display provides real-time preview of 12-lead ECG and VERITAS™ interpretation results to ensure high-quality data acquisition. ECG printing is enabled through a cardiology management system using a networked or standalone external USB printer.
- **Distinguished Mortara VERITAS™ Resting ECG Interpretation Algorithm**
Widely recognized Mortara resting ECG interpretation algorithm uses gender specific and adult and pediatric criteria to provide a silent second opinion for resting ECG interpretation.
- **Full Alphanumeric Keyboard**
Alphanumeric elastomer keyboard also includes dedicated "one-touch" buttons for simplified ECG acquisition and transmission.
- **Comprehensive ECG Storage**
Internal storage of 60 digital ECG records. Optional expanded storage of 150 digital ECG records.
- **Multiple Connectivity Options**
Offers a range of bidirectional communication options including USB, internal modem, GSM/GPRS mobile, LAN, or WLAN.
- **Information Exchange Interfaces**
ECG orders, as well as discrete and displayable results, can be exchanged with Mortara's E-Scribe™ and Athena products as well as compatible third-party ECG management, EMR, HIS, CVIS, and PACS systems via XML, PDF, UNIPRO, HL7, and DICOM™.



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**WARRANTY + SERVICE**

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ELI™ 10 ELECTROCARDIOGRAPH

FEATURE	SPECIFICATION*
INSTRUMENT TYPE	12-lead electrocardiograph
INPUT CHANNELS	Simultaneous acquisition of all 12 leads
STANDARD LEADS ACQUIRED	I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
WAVEFORM DISPLAY	Backlit, 1/4 VGA LCD (320 x 240) 3-lead groups, 8 or 12-lead presentation
INPUT IMPEDANCE	Meets or exceeds the requirements of ANSI/AAMI EC11
INPUT DYNAMIC RANGE	
ELECTRODE OFFSET TOLERANCE	
COMMON MODE REJECTION	
PATIENT LEAKAGE CURRENT	Meets or exceeds the requirements of ANSI/AAMI ES1
CHASSIS LEAKAGE CURRENT	
DIGITAL SAMPLING RATE	10,000 s/sec/channel used for pacemaker spike detection; 1000 s/sec/channel used for recording and analysis
USB PRINTER	Requires PCL3 and 300 dpi USB printer. Not all commercially available printers with these characteristics may be compatible.
PRINTING PAPER SPEED	25 mm/sec
GAIN SETTINGS	5, 10, or 20 mm/mV
REPORT PRINT FORMATS	Standard or Cabrera; 3+1, 3+3, 6, 6+6, or 12 channel
SPECIAL FUNCTIONS	Optional Mortara VERITAS resting ECG interpretation algorithm with age and gender specific criteria; connectivity options for bidirectional communication; network clock synchronization; customized patient demographics
KEYBOARD	Elastomer keyboard with complete alphanumeric keys, soft-key menu, and dedicated function keys
FREQUENCY RESPONSE	0.05 to 300 Hz
FILTERS	High-performance baseline filter; AC interference filter 50/60 Hz; low-pass filters 40 Hz, 150 Hz, or 300 Hz
A/D CONVERSION	20 bits (1.17 microvolt LSB)
DEVICE CLASSIFICATION	Class I, Type CF defibrillation-proof applied parts
ECG STORAGE	Internal storage of 60 ECGs; optional expanded storage of 150 ECGs
WEIGHT	1.2 lbs. (0.54 kg) including battery
DIMENSIONS	6.72 x 5.32 x 1.50" (17.2 x 13.5 x 3.8 cm) (without docking station)
POWER REQUIREMENTS	Universal AC power supply (100-240 VAC at 50/60 Hz) 50 VA; internally rechargeable battery

*Specifications subject to change without notice

ELI™, E-Scribe™, and VERITAS™ are trademarks of Mortara Instrument, Inc.

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ELI 150c

MORTARA'S NEXT GENERATION 12-LEAD ELECTROCARDIOGRAPHS

PRODUCT FEATURES

- **Portable Solution**

Compact and lightweight, the ELI™ 150c electrocardiograph provides comprehensive functionality in an ultra-portable device.

- **High-Resolution Color LCD**

High-resolution color display provides real-time preview of 12-lead ECG and post-acquisition review of acquired ECG.

- **Distinguished Mortara VERITAS™ Resting ECG Interpretation Algorithm**

Widely recognized Mortara resting ECG interpretation algorithm uses gender specific and adult and pediatric criteria to provide a silent second opinion for resting ECG interpretation.

- **Choice of Wireless or Traditional ECG Acquisition**

ELI 150c offers a choice of either the innovative WAM™ wireless acquisition module or the AM12™ acquisition module. Both include replaceable lead wires, lead fail indicator, and remote control with buttons for ECG acquisition and rhythm printing.

- **Best 10**

ELI 150c automatically selects and displays the Best 10 seconds of ECG signal from the five minute segment of internal full disclosure, reducing clinical review time and eliminating the need for repeat ECGs.

- **Full Keyboard**

Alphanumeric elastomer keyboard features dedicated "one-touch" buttons for ECG acquisition, rhythm printing, and ECG transmission/order retrieval.

- **Information Exchange**

Experience the benefits of bidirectional communication via USB, USB memory stick, internal modem, LAN, wireless LAN, or GPRS mobile with Mortara's E-Scribe™ and Athena products, as well as third party EMR, HIS, and PACS systems via XML, PDF, UNIPRO32, and DICOM®.



12-LEAD resting electrocardiograph

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**ELI™ 150c ELECTROCARDIOGRAPH**

FEATURE	SPECIFICATION*
INSTRUMENT TYPE	12-lead electrocardiograph
INPUT CHANNELS	Simultaneous acquisition of all 12 leads
STANDARD LEADS ACQUIRED	I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
WAVEFORM DISPLAY	Backlit, 1/4 VGA color LCD (320 x 240); 3, 4+4, or 6+6 lead presentation
INPUT IMPEDANCE	Meets or exceeds the requirements of ANSI/AAMI EC11
INPUT DYNAMIC RANGE	
ELECTRODE OFFSET TOLERANCE	
COMMON MODE REJECTION	
PATIENT LEAKAGE CURRENT	Meets or exceeds the requirements of ANSI/AAMI ES1
CHASSIS LEAKAGE CURRENT	
DIGITAL SAMPLING RATE	40,000 s/sec/channel used for pacemaker spike detection; 1000 s/sec/channel used for recording and analysis
OPTIONAL FUNCTIONS	Mortara VERITAS resting ECG interpretation algorithm with age and gender specific criteria; connectivity with bidirectional communication
PAPER	Perforated double Z-fold thermal paper; 108 mm (4") wide, 200 sheets
THERMAL PRINTER	Computer-controlled dot array; 8 dots/mm
THERMAL PRINTER SPEEDS	5, 10, 25, or 50 mm/s
GAIN SETTINGS	5, 10, or 20 mm/mV
REPORT PRINT FORMATS	Standard or Cabrera; 3, 3+1, 3+3, or 6 channel
RHYTHM PRINT FORMATS	3 or 6 channel with configurable lead groups
KEYBOARD	Elastomer keyboard with complete alphanumeric keys, soft-key menu, and dedicated function keys
FREQUENCY RESPONSE	0.05 to 300 Hz
FILTERS	High-performance baseline filter; AC interference filter 50/60 Hz; low-pass filters 40 Hz, 150 Hz, or 300 Hz
A/D CONVERSION	20 bits (1.17 microvolt LSB)
DEVICE CLASSIFICATION	Class I, Type CF defibrillation-proof applied parts
ECG STORAGE	Internal storage up to 100 ECGs; optional expanded up to 200 ECGs
WEIGHT	7.2 lbs. (3.3 kg) including battery (without paper)
DIMENSIONS	11.25 x 11.5 x 3.75" (29.2 x 30.5 x 10.2 cm)
POWER REQUIREMENTS	Universal AC power supply (100-240 VAC at 50/60 Hz) 110 VA; internal rechargeable battery

*Specifications subject to change without notice.

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ELI 250c

MORTARA'S NEXT GENERATION 12-LEAD ELECTROCARDIOGRAPHS

PRODUCT FEATURES

- **Portable Solution**

Compact and lightweight, the ELI™ 250c electrocardiograph provides comprehensive functionality, with 8.5 x 11" or A4 paper, in an easy-to-use, portable device.

- **High-Resolution Color LCD**

High-resolution color display provides real-time preview of 12-lead ECG and post-acquisition review of acquired ECG.

- **Distinguished Mortara VERITAS™ Resting ECG Interpretation Algorithm**

Widely recognized Mortara resting ECG interpretation algorithm uses gender specific and adult and pediatric criteria to provide a silent second opinion for resting ECG interpretation.

- **Choice of Wireless or Traditional ECG Acquisition**

ELI 250c offers a choice of either the innovative WAM™ wireless acquisition module or the AM12™ acquisition module. Both include replaceable lead wires, lead fail indicator, and remote control with buttons for ECG acquisition and rhythm printing.

- **Best 10**

ELI 250c automatically selects and displays the Best 10 seconds of ECG signal from the five minute segment of internal full disclosure, reducing clinical review time and eliminating the need for repeat ECGs.

- **Full Keyboard**

Alphanumeric elastomer keyboard features dedicated "one-touch" buttons for ECG acquisition, rhythm printing, and ECG transmission/order retrieval.

- **Information Exchange**

Experience the benefits of bidirectional communication via USB, USB memory stick, internal modem, LAN, or wireless LAN with Mortara's E-Scribe™ and Athena product, as well as third party EMR, HIS, and PACS systems via XML, PDF, UNIPRO, and DICOM®.



12-LEAD resting electrocardiograph

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**ELI™ 250c ELECTROCARDIOGRAPH**

FEATURE	SPECIFICATION*
INSTRUMENT TYPE	12-lead electrocardiograph
INPUT CHANNELS	Simultaneous acquisition of all 12 leads
STANDARD LEADS ACQUIRED	I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
WAVEFORM DISPLAY	Backlit, 1/4 VGA color LCD (320 x 240); 3, 4+4, or 6+6 lead presentation
INPUT IMPEDANCE	Meets or exceeds the requirements of ANSI/AAMI EC11
INPUT DYNAMIC RANGE	
ELECTRODE OFFSET TOLERANCE	
COMMON MODE REJECTION	
PATIENT LEAKAGE CURRENT	Meets or exceeds the requirements of ANSI/AAMI ES1
CHASSIS LEAKAGE CURRENT	
DIGITAL SAMPLING RATE	40,000 s/sec/channel used for pacemaker spike detection; 1000 s/sec/channel used for recording and analysis
OPTIONAL FUNCTIONS	Mortara VERITAS resting ECG interpretation algorithm with age and gender specific criteria; connectivity with bidirectional communication
PAPER	Perforated Z-fold thermal paper, A4 or 8.5 x 11" wide, 250 sheets
THERMAL PRINTER	Computer-controlled dot array; 8 dots/mm
THERMAL PRINTER SPEEDS	5, 10, 25, or 50 mm/s
GAIN SETTINGS	5, 10, or 20 mm/mV
REPORT PRINT FORMATS	Standard or Cabrera: 3+1, 3+3, 6, 6+6, or 12 channel
RHYTHM PRINT FORMATS	3, 6, or 12 channel with configurable lead groups
KEYBOARD	Elastomer keyboard with complete alphanumeric keys, soft-key menu, and dedicated function keys
FREQUENCY RESPONSE	0.05 to 300 Hz
FILTERS	High-performance baseline filter; AC interference filter 50/60 Hz; low-pass filters 40 Hz, 150 Hz, or 300 Hz
A/D CONVERSION	20 bits (1.17 microvolt LSB)
DEVICE CLASSIFICATION	Class I, Type CF defibrillation-proof applied parts
ECG STORAGE	Internal storage up to 40 ECGs; optional expanded up to 200 ECGs
WEIGHT	11.25 lbs. (5.1 kg) including battery (without paper)
DIMENSIONS	15.5 x 17 x 4" (39.4 x 43.2 x 10.2 cm)
POWER REQUIREMENTS	Universal AC power supply (100-240 VAC at 50/60 Hz) 110 VA; internal rechargeable battery

*Specifications subject to change without notice.

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Ref: 9513-178-01-ENG Rev 4

ELI 280

MORTARA'S NEXT GENERATION 12-LEAD RESTING ELECTROCARDIOGRAPHS

PRODUCT FEATURES

- **Portable Solution**

Compact and lightweight, the ELI™ 280 electrocardiograph provides comprehensive functionality in a portable, touch-screen device. The easy-to-use ELI 280 is designed to meet the demands of high-volume ECG environments.

- **High-Resolution Color Touchscreen LCD**

10.1" high-resolution color LCD with convenient touchscreen displays up to 12 leads of ECG data for immediate review and plotting.

- **Distinguished Mortara VERITAS™ Resting ECG Interpretation Algorithm**

Widely recognized Mortara resting ECG interpretation algorithm uses gender specific and adult and pediatric criteria to provide a silent second opinion for resting ECG interpretation.

- **Choice of Wireless or Traditional ECG Acquisition**

ELI 280 offers a choice of either the innovative WAM™ wireless acquisition module or the AM12™ acquisition module. Both include replaceable lead wires, lead fail indicator, and remote control with buttons for ECG acquisition and rhythm printing.

- **Best 10**

ELI 280 incorporates Mortara's unique Best 10 feature which automatically selects and displays the best 10 seconds of ECG from memory, reducing the need for repeat ECGs caused by patient movement or other sources of ECG artifact.

- **Streamlined Functionality**

ELI 280 easily integrates with cardiology management systems for increased efficiency and optimized workflow. With automatic time sync and the ability to obtain orders and reports with a single touch, the ELI 280 can save user time and effort.

- **Information Exchange**

Experience the benefits of bidirectional communication via internal modem, LAN, or wireless LAN with Mortara's E-Scribe™, as well as third party PACS systems via XML, PDF, UNIPRO32, and DICOM™.



12-LEAD resting electrocardiograph

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ELI 280™ ELECTROCARDIOGRAPH**FEATURE****SPECIFICATION*****INSTRUMENT TYPE**

Multi-lead electrocardiograph

INPUT CHANNELS

Simultaneous acquisition of all 12 leads

STANDARD LEADS ACQUIRED

I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6

WAVEFORM DISPLAY

Backlit, 10.1" high-resolution color LCD

INPUT IMPEDANCE

Meets or exceeds the requirements of ANSI/AAMI EC11

INPUT DYNAMIC RANGE**ELECTRODE OFFSET TOLERANCE****COMMON MODE REJECTION****PATIENT LEAKAGE CURRENT**

Meets or exceeds the requirements of ANSI/AAMI ES1

CHASSIS LEAKAGE CURRENT**DIGITAL SAMPLING RATE**

40,000 s/sec/channel used for pacemaker spike detection;
1000 s/sec/channel used for recording and analysis

OPTIONAL FUNCTIONS

Mortara VERITAS resting ECG interpretation algorithm with age and gender specific criteria; connectivity with bidirectional communication

PAPER

Perforated Z-fold thermal paper, A4 or 8.5 x 11" wide, 250 sheets

THERMAL PRINTER

Computer-controlled dot array; 1 dot/ms horizontal, 8 dots/mm vertical

THERMAL PRINTER SPEEDS

5, 10, 25, or 50 mm/s

GAIN SETTINGS

5, 10, or 20 mm/mV

REPORT PRINT FORMATS

Standard or Cabrera: 3+1, 3+3, 6, 6+6, or 12 channel

RHYTHM PRINT FORMATS

3, 6, 8, or 12 channel with configurable lead groups

FREQUENCY RESPONSE

0.05 to 300 Hz

FILTERS

High-performance baseline filter; AC interference filter 50/60 Hz; low-pass filters 40 Hz, 150 Hz, or 300 Hz

A/D CONVERSION

20 bits (1.17 microvolt LSB)

DEVICE CLASSIFICATION

Class I, Type CF defibrillation-proof applied parts

ECG STORAGE

Internal storage up to 40 ECGs; optional expanded up to 200 ECGs

WEIGHT

12.5 lbs. (5.68 kg) including battery (without paper)

DIMENSIONS

17.5 x 15.5 x 4.5" (44.45 x 39.37 x 11.43 cm)

POWER REQUIREMENTS

Universal AC power supply (100-240 VAC at 50/60 Hz) 110 VA; internal rechargeable battery

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