



# PREMIUM RESTING ECG MACHINE

## FEATURES AND BENEFITS

### Compact and Lightweight

Easy to use and portable; designed to meet the demands of high volume ECG environments.

### High-Resolution Color Touchscreen LCD

Convenient touchscreen displays up to 12 leads of ECG data for immediate review and plotting.

### Distinguished Mortara VERITAS™ Resting ECG Interpretation Algorithm

The widely recognized VERITAS™ resting ECG interpretation algorithm uses gender specific and adult and pediatric criteria to provide a silent second opinion for resting ECG interpretation. Displays hook-up confirmation which includes detection of lead reversals.

### Data Security

Electronic protected health information (ePHI) data is secured with Lightweight Directory Access Protocol (LDAP) integration which enables user authentication and authorization. Additionally, bidirectional network encryption ensures protection of sensitive ePHI in ECGs, orders, and patient lists.

### Choice of Wireless or Traditional ECG Acquisition

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 Technology

Evaluates ECG signal and noise to determine the best 10 seconds of data recorded and automatically displays the selected data. Best 10 simplifies ECG acquisition by reducing clinical review time and eliminating the need for repeat ECGs.

### Information Exchange

Bidirectional communication via LAN or wireless LAN enables connectivity to Mortara's Pyramis®, HeartCentrix®, E-Scribe™, and Athena products, as well as to third party EHR, PACS, and CVIS. Also communicates to Mortara's ECG Safe™, a cloud-based service that provides an easy, effective way to store ECGs for convenient viewing and file management from anywhere.



LUMEON® 280 Series

**FEATURE****SPECIFICATION**

<b>INSTRUMENT TYPE</b>	Multi-lead electrocardiograph
<b>INPUT CHANNELS</b>	Simultaneous acquisition of all 12 leads
<b>STANDARD LEAD ACQUIRED</b>	I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
<b>WAVEFORM DISPLAY</b>	Backlit, 10.1 inch high-resolution color LCD
<b>INPUT IMPEDANCE INPUT DYNAMIC RANGE ELECTRODE OFFSET TOLERANCE COMMON MODE REJECTION</b>	Meets or exceeds the requirements of ANSI/AAMI EC11
<b>PATIENT LEAKAGE CURRENT CHASSIS LEAKAGE CURRENT</b>	Meets or exceeds the requirements of ANSI/AAMI ES1
<b>DIGITAL SAMPLING RATE</b>	40,000 s/sec/channel used for pacemaker spike detection; 1000 s/sec/channel used for recording analysis
<b>OPTIONAL FUNCTIONS</b>	VERITAS resting ECG interpretation algorithm with age and gender specific criteria; connectivity with bidirectional communication
<b>PAPER</b>	Perforated Z-fold thermal paper, A4 or 8.5 x 11 inch, Ships with 250 sheets
<b>THERMAL PAPER</b>	Computer-controlled dot array; 1 dot/ms horizontal, 8 dots/mm vertical
<b>THERMAL PRINTER SPEEDS</b>	5, 10, 25, or 50 mm/s
<b>GAIN SETTINGS</b>	5, 10, or 20 mm/mV
<b>REPORT PRINT FORMATS</b>	Standard or Cabrera: 3+1, 3+3, 6, 6+6, or 12 channel
<b>RHYTHM PRINT FORMATS</b>	3, 6, 8 or 12 channel with configurable lead groups
<b>FREQUENCY RESPONSE</b>	0.05 to 300 Hz
<b>FILTERS</b>	High-performance baseline filter; AC interference filter 50/60 Hz; low-pass filters 40 Hz, 150 Hz, or 300 Hz
<b>A/D CONVERSION</b>	20 bits (1.17 microvolt LSB)
<b>DEVICE CLASSIFICATION</b>	Class I, Type CF defibrillation-proof applied parts
<b>ECG STORAGE</b>	Internal storage up to 200 ECGs
<b>WEIGHT</b>	12.5 lbs. (5.68 kg) including battery (without paper)
<b>DIMENSIONS</b>	17.5 x 15.5 x 4.5 inch (44.45 x 39.37 x 11.43 cm)
<b>POWER REQUIREMENTS</b>	Universal AC power supply (100-240 VAC at 50/60 Hz) 110 VA; internal rechargeable battery

**MANUFACTURER****McKESSON****WELCH ALLYN**

<b>MODEL</b>	<b>LUMEON® 280 Series</b>	<b>CP200</b>
<b>INTERPRETATION PROGRAM</b>	VERITAS™	MEANS
<b>PATIENT TYPE</b>	Pediatric and Adult	Pediatric* and Adult
<b>FREQUENCY RANGE</b>	0.05 – 300 Hz	0.3 – 150 Hz
<b>USER INTERFACE</b>	Touch screen	Alphanumeric keyboard, function keys
<b>DISPLAY TYPE</b>	10 inch Backlit Color Touch screen	Not specified
<b>PATIENT ACQUISITION</b>	USB direct (AM12) Wireless (WAM)	Serial direct
<b>ECG STORAGE</b>		
Standard	40	50
Optional	200	
<b>WEIGHT (lbs)</b>	12.5 including battery	11.6 including battery
<b>AUTOMATED BEST ECG DETECTION (Best 10)</b>	Y	N
<b>CONNECTIVITY</b>	Modem, WLAN, LAN, USB, USBD	SD Card, USBD, WLAN
<b>INTERFACES</b>	Bi-directional DICOM, XML, HL7, PDF	Output only
<b>EHR INTERFACE</b>	Y	N

\*The ACC, AHA, HRS, ESC, and American Academy of Pediatrics recommend a minimum of 250Hz for pediatric patients

<b>E1#</b>	<b>MFR#</b>	<b>DESCRIPTION</b>	<b>CONTENTS</b>	<b>QTY</b>
<a href="#">1014325</a>	MLBUR280-C1X	ELI 280 Premium Resting ECG Machine, Touchscreen (AM12, USB, and LAN)	User Manual, ECG Acquisition Module, ECG Lead Adapters, Single Package Paper, US Power Cord, AHA Patient Cable Banana End, Adult and Pediatric Interpretation, Patient Storage, and Communication	1ea/cs
<a href="#">1014323</a>	MLBUR280-81X	ELI 280 Premium Resting ECG Machine, Touchscreen (AM12, USB, LAN, and 802.11 wireless)	User Manual, ECG acquisition Module, ECG lead adapters, Single Package 8.5 x 11 inch Paper, US Power Cord, AHA Patient Cable Banana End, Adult and Pediatric Interpretation, Patient Storage, and Communication	1ea/cs
<a href="#">1014327</a>	MLBUR280-W1X	ELI 280 Premium Resting ECG Machine, Touchscreen (WAM, USB, LAN, and 802.11 wireless)	User Manual, ECG Acquisition Module, ECG Lead Adapters, Single Package Paper, US Power Cord, AHA Patient Cable Banana End, Adult and Pediatric Interpretation, Patient Storage, and Communication	1ea/cs
<a href="#">1014324</a>	MLBUR280-C1D	ELI 280 Premium Resting ECG Machine, Touchscreen (AM12, USB, LAN, and DICOM)	User Manual, ECG Acquisition Module, ECG Lead Adapters, Single Package Paper, US Power Cord, AHA Patient Cable Banana End, Adult and Pediatric Interpretation, Patient Storage, and Communication	1ea/cs
<a href="#">1014322</a>	MLBUR280-81D	ELI 280 Premium Resting ECG Machine, Touchscreen (AM12, USB, LAN, 802.11 wireless and DICOM)	User Manual, ECG Acquisition Module, ECG Lead Adapters, Single Package Paper, US Power Cord, AHA Patient Cable Banana End, Adult and Pediatric Interpretation, Patient Storage, and Communication	1ea/cs
<a href="#">1014326</a>	MLBUR280-W1D	ELI 280 Premium Resting ECG Machine, Touchscreen (WAM, USB, LAN, 802.11 wireless and DICOM)	User Manual, ECG Acquisition Module, ECG Lead Adapters, Single Package Paper, US Power Cord, AHA Patient Cable Banana End, Adult and Pediatric Interpretation, Patient Storage, and Communication	1ea/cs

## RESTING ECG MACHINE

### FEATURES AND BENEFITS

#### Compact and Lightweight

Provides comprehensive functionality in an ultra-portable device.

#### High-Resolution LCD

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

#### Distinguished Mortara VERITAS™ Resting ECG Interpretation Algorithm

The widely recognized VERITAS™ 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

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 Technology

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, UNIPRO, and DICOM®.



LUMEON® 150C Series

## FEATURE

## SPECIFICATION

<b>INSTRUMENT TYPE</b>	12-lead electrocardiograph
<b>INPUT CHANNELS</b>	Simultaneous acquisition of all 12 leads
<b>STANDARD LEAD ACQUIRED</b>	I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
<b>WAVEFORM DISPLAY</b>	Backlit, ¼ VGA color LCD (320 x 240); 3, 4+4, or 6+6 lead presentation
<b>INPUT IMPEDANCE INPUT DYNAMIC RANGE ELECTRODE OFFSET TOLERANCE COMMON MODE REJECTION</b>	Meets or exceeds the requirements of ANSI/AAMI EC11
<b>PATIENT LEAKAGE CURRENT CHASSIS LEAKAGE CURRENT</b>	Meets or exceeds the requirements of ANSI/AAMI ES1
<b>DIGITAL SAMPLING RATE</b>	40,000 s/sec/channel used for pacemaker spike detection; 1000 s/sec/channel used for recording analysis
<b>OPTIONAL FUNCTIONS</b>	VERITAS resting ECG interpretation algorithm with age and gender specific criteria; connectivity with bidirectional communication
<b>PAPER</b>	Perforated Z-fold thermal paper, 108 mm (4 in) wide, Ships with 200 sheets
<b>THERMAL PAPER</b>	Computer-controlled dot array; 8 dots/mm
<b>THERMAL PRINTER SPEEDS</b>	5, 10, 25, or 50 mm/s
<b>GAIN SETTINGS</b>	5, 10, or 20 mm/mV
<b>REPORT PRINT FORMATS</b>	Standard or Cabrera: 3, 3+1, 3+3, or 6 channel
<b>RHYTHM PRINT FORMATS</b>	3 or 6 channel with configurable lead groups
<b>KEYBOARD</b>	Elastomer keyboard with complete alphanumeric keys, soft-key menu, and dedicated function keys
<b>FREQUENCY RESPONSE</b>	0.05 to 300 Hz
<b>FILTERS</b>	High-performance baseline filter; AC interference filter 50/60 Hz; low-pass filters 40 Hz, 150 Hz, or 300 Hz
<b>A/D CONVERSION</b>	20 bits (1.17 microvolt LSB)
<b>DEVICE CLASSIFICATION</b>	Class I, Type CF defibrillation-proof applied parts
<b>ECG STORAGE</b>	Internal storage up to 40 ECGs; optional expanded up to 200 ECGs
<b>WEIGHT</b>	7.2 lbs. (3.3 kg) including battery (without paper)
<b>DIMENSIONS</b>	11.25 x 11.5 x 3.75 in (29.2 x 30.5 x 10.2 cm)
<b>POWER REQUIREMENTS</b>	Universal AC power supply (100-240 VAC at 50/60 Hz) 110 VA; internal rechargeable battery



**MANUFACTURER****McKESSON****WELCH ALLYN**

MODEL	LUMEON® 150C Series	CP50
INTERPRETATION PROGRAM	VERITAS™	MEANS
PATIENT TYPE	Pediatric and Adult	Pediatric* and Adult
FREQUENCY RANGE	0.05 – 300 Hz	0.3 – 150 Hz
USER INTERFACE	Alphanumeric keyboard, function keys	Touch Screen
DISPLAY TYPE	Color LCD	4.3 inch Touch Screen
PATIENT ACQUISITION	USB direct (AM12) Wireless (WAM)	Serial direct
ECG STORAGE Standard Optional	40 200	25
WEIGHT (lbs)	7.2 including battery	4.4 (battery not specified)
AUTOMATED BEST ECG DETECTION (Best 10)	Y	N
CONNECTIVITY	Modem, WLAN, LAN, USB, USBD	USB, USBD, LAN - CP50Plus only
INTERFACES	Bi-directional DICOM, XML, HL7, PDF	Output only (CP50Plus via CardioPerfect SW)
EHR INTERFACE	Y	N (CP50Plus Only)

\*The ACC, AHA, HRS, ESC, and American Academy of Pediatrics recommend a minimum of 250Hz for pediatric patients

E1	MFR#	DESCRIPTION	CONTENTS	QTY
<a href="#">1014320</a>	MLBUR150C-C1X	ELI 150C Resting ECG Machine (AM12, USB, and LAN)	User Manual, ECG Acquisition Module, ECG Lead Adapters, Single Package Paper, US Power Cord, AHA Patient Cable Banana End, Adult and Pediatric Interpretation, Patient Storage, and Communication	1ea/cs
<a href="#">1014319</a>	MLBUR150C-81X	ELI 150C Resting ECG Machine (AM12, USB, LAN, and 802.11 wireless)	User Manual, ECG Acquisition Module, ECG Lead Adapters, Single Package Paper, US Power Cord, AHA Patient Cable Banana End, Adult and Pediatric Interpretation, Patient Storage, and Communication	1ea/cs
<a href="#">1014321</a>	MLBUR150C-W1X	ELI 150C Resting ECG Machine (WAM, USB, LAN, and 802.11 wireless)	User Manual, ECG Acquisition Module, ECG Lead Adapters, Single Package Paper, US Power Cord, AHA Patient Cable Banana End, Adult and Pediatric Interpretation, Patient Storage, and Communication	1ea/cs

## Satisfaction Guaranteed

For complete details, please visit  
[mms.mckesson.com/mckesson-brands](https://mms.mckesson.com/mckesson-brands).

## Never Compromise on Care™

With McKesson Brands, you'll never have to compromise. We deliver quality products at competitive prices, backed by our 100% satisfaction guarantee. We have decades of experience in the market, and we offer you support and work to help ensure you have the products you need, when you need them—making it even easier for you to provide the best care for your patients.

The product information contained in this document, including the product images and additional product materials, was collected from various supplier sources. All product claims and specifications are those of the product suppliers and have not been independently verified by McKesson Medical-Surgical or its affiliates ("McKesson"). McKesson is not responsible for errors or omissions in the product information.

The properties of a product may change or be inaccurate following the posting or printing of the product information in the document, either in the print or online version. Caution should be exercised when using or purchasing any products from McKesson's online or print documents by closely examining the product packaging and the labeling prior to use.

Due to product changes, information listed in this document is subject to change without notice. This information is placed solely for your convenience in ordering and McKesson disclaims all responsibility for its completeness and accuracy, whether or not the inaccuracy or incompleteness is due to fault or error by McKesson.

McKesson and Lumeon are registered trademarks of McKesson Corporation. Mortara, HeartCentrix®, Pyramis®, E-Scribe™, VERITAS™, ECG Safe™ and Burdick are registered trademarks of Mortara Instrument, Inc. Welch Allyn CP50 and CP200 are registered trademarks of Welch Allyn. DICOM® is registered trademark of National Electrical Manufacturers Association. MEANS, the Modular ECG Analysis System, was developed by the Department of Medical Informatics at the Erasmus University of Rotterdam in the Netherlands.