

MAC VU360[™] v1.03

Resting ECG workstation

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General

Instrument type Microprocessor augmented automatic

electrocardiograph; 14-leadwire acquisition with programmable lead configuration

ECG interpretation Marquette™ 12SL ECG Analysis Program for

Adults and Pediatrics

Computerized 15-lead analysis includes measurements measurements of user-selectable additional 3 leads

Heart rate meter 30 to 300 BPM ±10% or 5 BPM, whichever

is greater. Heart rates outside this range

will not be displayed

ECG data formats GE HealthCare Hi-Fidelity ECG, XML

External archiving USB removable media

SFTP (Secure File Transfer Protocol)

Shared Drive

Pre-acquisition Provides 10 seconds of instantaneous

ECG acquisition

Digital rhythm Up to 5 minutes of continuous rhythm

storage (exportable as a PDF)

Full disclosure Select, review, acquire, print and/or transmit

any 10 second ECG segment from the

continuous 12 or 15 lead ECG data in internal

memory (optional)

Storage 1000 records consisting of 10 second Resting

ECG records and Digital Rhythm records on

>130 dB (>100 dB with AC filter disabled)

the device internal memory

Dynamic range AC Differential ±5 mV, DC offset ±300 mV

Common mode

rejection

Input impedance $>10~M\Omega$ @ 10~Hz

Defibrillation protection

Per IEC 60601-2-25:2011

Patient leakage <10 μA

NW printer Network Printer

Log Aggregation Event log entries can be sent directly to a

Specifications for digital acquisition and analysis of waveforms

Analog to digital 24-bit analog to digital conversion

conversion resolution; Bandwidth: DC to 500 Hz;

Digital over sampling rate: 512 ksps

networked Log Aggregator via syslog protocol

Down sampled Bandwidth: 0.04 to 150 Hz;

ECG waveform Sample rate: 2 ksps; Resolution: 1.22 μV

Input to 12SL Bandwidth: 0.04, 0.56 ZPD to 150 Hz;

Sample rate: 1 ksps; Resolution: 4.88 μV

Additional report 20 Hz, 40 Hz, 100 Hz, or 150 Hz,

filters 300Hz (Recommended for Pediatric patients)

Specification for stored/transmitted waveforms

Digital rhythm Bandwidth: 0.04, 0.56 ZPD to 150 Hz;

waveform Sample rate: 1000 sps;

Resolution: 4.88 μV

12-lead ECG Bandwidth: 0.04, 0.56 ZPD to 150 Hz;

waveform Sample rate: 500 & 1000 sps;

Resolution: 4.88 μV

Representative Sample rate: 500 & 1000 sps;

(median) complex Resolution: 4.88 μV

Pace detection

Pacemaker Bandwidth: 23.5 Hz to 10.5 kHz;

waveform Sample rate: 75 ksps;

Resolution: 11.8 μV

Pace detection Duration: 0.2 ms to 2.1 ms

Amplitude: 2 mV to 700 mV Separation: 1 ms or greater

Pace annotation Dedicated pace channel on display

and printed reports

Communications

Network clock

ECG management MUSE™ Cardiology Information System systems Compatible (v8 or later) with connectivity bi-directional orders and ADT support Transmit Resting ECG records to CardioSoft via removable media (v6.73 or later) or via network (v7 or later) DICOM Modality Worklist/Orders: Supported via GE HealthCare MUSE (v9 or higher) and DICOM Gateway with bi-directional orders support Via MUSE Cardiology Information System **EMR** connectivity (v9 or later) Via EMR Gateway V2 Data export Export of Resting ECG (in PDF or XML format), Digital Rhythm and Full Disclosure reports (in PDF format) over Secures File Transfer Protocol (SFTP) or to a Shared folder Prior ECG Printing and viewing of Prior ECGs available on MUSE NX Note: Prior ECG is supported in MUSE NX 10.1 or higher versions Wireless Wireless 802.11 a/b/g/n wireless connectivity (2.4GHz/5GHz) IPV4 DHCP, hostname and static IP options for configuring device IP/network address WEP and Enhanced Security WPA-PSK, WPA2-PSK, WPA/WPA2 enterprise protocols TLS, PEAP-MSCHAPV2, PEAP-GTC, TTLS-MSCHAPV2, TTLS-GTC. (PEAP requires network evaluation/ approval prior to purchase) Ultra-high security 4096 bit encryption/long certificate support SHA1 and SHA2 support Network 802.3 Ethernet interface via RJ45 connectivity Compatible to 10Base-T, 100Base-T and 1000Base-T LAN IPV4 DHCP, hostname and static IP options for configuring device IP/network address

Network time synchronization (NTP)

Display

Display & resolution 15.6-inch diagonal, LED backlit, Full HD

(1920 × 1080 pixels)

Touch screen type Projected Capacitive (PCAP) multipoint

touch input that works while wearing

medical exam gloves

Display data Heart rate, patient name, patient ID, date, clock,

battery power indicator, scrolling waveforms, lead labels, speed, gain and filter settings, warning messages, prompts, hookup advisor

and help messages

Sensors Accelerometer for putting unit in standby

when display is closed

Writer

Writer technology Integrated thermal dot array

Number of traces 3, 6, 12, or 15 user selectable

Writer speeds 5, 12.5, 25, & 50 mm/s

Writer 2.5, 5, 10, 20 mm/mV, and sensitivity/gain 10/5 mm/mV split gain

Writer speed 5, 12.5 mm/s @ +5% accuracy $25, 50 \text{ mm/s } @ \pm 2\%$

Writer amplitude ±5%

accuracy

Writer resolution Horizontal: 40 dots/mm @ 25 mm/s

Vertical: 8 dots/mm

Paper type Thermal, Z-fold, perforated, fan fold,

300 sheets/pack

Paper size 8.5 in × 11 in (215mm × 280 mm)

A4: 8.27 in × 11.7 in (210 mm × 297.5 mm)

Keyboard

Type Sealed elastomer membrane keyboard

with tactile feedback

Keys Function keys, Alphanumeric keys, Writer

controls, Trimpad cursor controls

Electrical

Power supply AC mains or battery operation

Input voltage 100–240 VAC + 10%

Input frequency 50–60 Hz + 3 Hz

Battery type Replaceable and rechargeable internal battery

Battery capacity The system shall be able to continuously display

scrolling waveforms without printing for a minimum of six hours (360 minutes) when the maximum total battery capacity is installed and

the battery is fully charged.

Battery charge Approximately 240 minutes from total discharge

time when device is off or standby

Security and privacy

Encryption All files containing PHI, local users and

passwords

Login Network: LDAP/Active Directory

authentication Local: User database

User management Customizable roles for limiting system access

by user groups for Admin, Clinical, Service,

Biomed, and user defined up to 10

customized roles

Audit trail All user logins, logouts and login failures,

file deletions, file changes, file views, file acquisitions, file transmissions, file printouts,

system configuration changes

PHI access Controlled by customizable roles with

configurable advanced strict PHI access rules

PHI access logs Detailed and exportable logs of all PHI viewing

by users

Emergency access

(STAT mode)

This user can access the device without providing

login credentials to perform emergency tasks such as acquiring an ECG or rhythm while preventing access to any stored patient data,

orders, ADT, or 3rd party applications

USB lockout Software controls to disable

USB ports/connections

Vectorcardiography

Report formats Vector loops of main vector (QRS-STT)

Sensitivity 20, 40, 80, or 160 mm/mv

Time resolution 2 ms

Physical specifications

Weight 75.3 lbs max with adjustable height

premium trolley and 1 battery

System with fixed height value trolley

 Handle height
 36 in (91 cm)

 Max height
 57 in (145 cm)

 Width
 20.5 in (52 cm)

 Depth
 23.5 in (60 cm)

System with fixed height premium trolley

Handle height 35 in (89 cm) or 37 in (94 cm)

Max height 56 in (142 cm) to 58 in (147 cm)

Width 19 in (48 cm)

Depth 28 in (71 cm)

System with adjustable height premium trolley

Handle height From 35 in (89 cm) to 41 in (104 cm)

Max height From 56 in (142 cm) to 62 in (158 cm)

Width 19 in (48 cm)

Depth 28 in (71 cm)

Environmental specifications

Temperature

Operating 50° to 104° F (10° to 40° C) Transport/storage -4° to 140° F (-20° to 60° C)

Humidity

Operating 20% to 95% RH non-condensing

Transport/storage 15% to 95% RH non-condensing

Pressure

Operating 70 to 106 kPa Transport/storage 50 to 106 kPa

Input devices

Keyboard Sealed elastomer membrane keyboard

with tactile feedback

Touchscreen Full HD (1080p) projected Capacitive (PCAP)

multipoint touch input that works while wearing

medical exam gloves

Barcode Integrated in CAM or external barcode scanner

(both optional)

Mouse Supported but not included

External USB barcode scanner

Types External and internal integrated in the CC-14

acquisition unit (both optional)

Formats Fixed and variable length

Symbologies Code-128, PDF417, Code 39, Interleaved Code 2

of 5, and Data Matrix symbology for characters A-Z (upper case), a-z (lower case), and 0-9 for all

supported languages

Acquisition unit

Quality indicators Real-time Hookup Advisor with LED

lead quality indicators

Remote control ECG acquisition button, rhythm acquisition

button, stop button

Ingress protection

level

IPx4

Integrated input

device

Optional integrated bar code scanner

Types Fixed and variable length

Symbologies Code-128, PDF417, Code 39, Interleaved Code

2 of 5, and Data Matrix symbology for characters A-Z (upper case), a-z (lower case), and 0-9 for all supported languages. UK NHS GS1 AIDC

barcode parsing

Certification

Certification marks cTUVus

Standards EN 60601-1:2006/A1:2013

complied with EN 60601-1-6:2010 + A1:2015+A2:2021

EN 60601-2-25:2015

IEC 62366-1:2015+AMD1:2020 IEC 62304:2002+A1:2015 EN 60601-1-2:2015 + A1:2021

Ordering information

Available user interface languages

Danish, Dutch, English, French, Finnish, German, Italian, Norwegian, Swedish, Korean,

Japanese, Czech

 $Not all \ products or features are available in all \ markets. Contact a \ GE \ Health Care \ Representative for more information. Please visit \ http://www.gehealthcare.com. Data subject to change.$

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