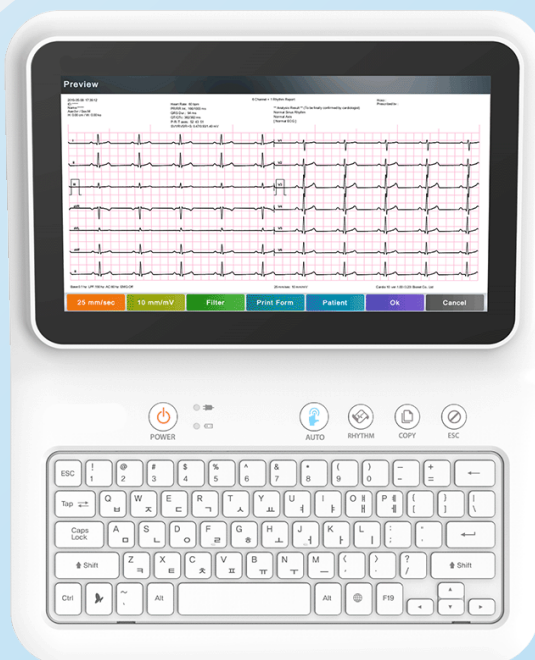




MDPRO GUARDIAN ECG

ECG Machine



30 MIN

Long-Term
Recording

10.1 IN

Wide Capacity
Touchscreen

10 HR

Data Printout
Capability

500

ECG Data

Features

- Smart AUTO workflow
- Various report formats
- Real-time interpretation
- External memory capacity
- Save user profiles & settings
- Long-term recording up to 30 min
- 3-USB ports for spirometer connection
- HDMI output for a larger screen display
- 30 Min full disclosure with live data comparison mode
- Advanced spirometry test modes COPD, FVC, SVC, MVV
- Wireless LAN connectivity with HIPAA compliant transmission
- External USB data storage in PDF, XML, MFER, BMP, JPG, DICOM

Effective And Accurate

The MDPro Guardian is engineered to optimize workflow, enhance procedural efficiency, and improve diagnostic accuracy. Equipped with an alphanumeric keyboard and robust data security features, it supports a secure and user-friendly experience. The MDPro Guardian delivers advanced interpretation and a range of digital diagnostic modes, providing fast and accurate results to support confident clinical decision-making.

Market Type



EMS



Acute Care



Primary Care



ICU



GUARDIAN ECG SPECIFICATIONS



DISPLAY

- 10.1" Color TFT Wide Display (1024 × 600)
- 12-channel preview ECG waveform

USER INTERFACE

- Capacitive touch screen
- Alphanumeric and symbol input
- Function keys and keyboard

ECG LEADS

- Simultaneous 12-channel ECG acquisition

RECORDING CHANNELS

- 3CH+3RHY, 3CH+1RHY, 6CH+1RHY
- 12CH, 1CH+3, Cabrera report
- Long time recording: 1, 3, 5, 10, 20, 30 minutes
- Special beat report (text, guide, vector)

GAIN

- 2.5, 5, 10, 20, Auto (I–aVF: 10, V1–V6: 5) mm/mV

PRINTING SPEED

- 5, 12.5, 25, 50, 100 mm/sec

SAMPLING RATE

- Digital sampling rate: 8,000 Hz

FILTERS

- AC (50/60 Hz, -20dB or better)
- Muscle (25–35Hz, -3dB or better)
- Baseline drift (0.05Hz, 0.1Hz, 0.2Hz)
- Low pass filter (off, 40Hz, 100Hz, 150Hz)

PATIENT DATA

- ID, Name, Date of Birth, Age, Gender
- Height, Weight, Race, Smoke status
- Department, Room No., Study Description
- Accession No., Referring Physician

MEASUREMENTS & INTERPRETATION

- Heart rate: 30–300 bpm (± 3 bpm)
- PR/RR interval, QRS duration, QT/QTc interval
- P-R-T axis, SV1/RV5/R+S amplitude
- Bionet ECG analysis algorithm
- University of Glasgow ECG interpretation algorithm

ELECTRICAL

- Internal noise: $\leq 20\mu\text{V}$ (p-p)
- Input impedance: $\geq 50\text{MW}$
- Input voltage range: $\pm 5\text{mV}$
- CMRR: $\geq 105\text{dB}$
- DC offset voltage: $\pm 400\text{mV}$
- Patient leakage current compliant
- Response: 0.05–200 Hz within -3dB
- Defibrillation and ESU protected

SIGNAL QUALITY CONTROL

- Pacemaker pulse detection
- Lead fault detection
- Signal saturation detection

DATA STORAGE

- Internal memory for up to 500 ECG records

COMMUNICATION

- LAN, Wi-Fi (optional)
- USB flash drive
- USB barcode scanner support

BATTERY

- Rechargeable lithium-ion battery
- Up to 10 hours of normal use or 350 ECG prints
- Full recharge in approximately 3 hours (power off)

POWER

- Input: 100–240 VAC, 50/60 Hz, 1.5–0.75A
- Output: 15 VDC, 4.2A

ENVIRONMENTAL (OPERATION)

- Temperature: 10°C to 40°C
- Humidity: 30% to 85% RH
- Atmospheric pressure: 700–1060 hPa

ENVIRONMENTAL (STORAGE/TRANSPORT)

- Temperature: -20°C to 60°C
- Humidity: 10% to 95% RH
- Atmospheric pressure: 500–1060 hPa

DIMENSIONS & WEIGHT

- 286 (W) × 350 (D) × 144 (H) mm
- Approx. 4.5 kg (max)

STANDARD ACCESSORIES

- Power cord (1)
- Patient cable (1)
- ECG clips (1 set)
- Disposable electrodes (1 pouch)
- ECG chart paper (1 roll)
- Operation manual (1)
- Diagnosis guide (1)
- Rechargeable battery (1)
- USB Wi-Fi dongle (1)