

iMAC 12pro Tablet ECG Machine Datasheet

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1 Overview

1.1 Features Overview

- 1.1.1 Simultaneously 12pro leads Acquisition
- 1.1.2 Applicable Range:
Adult and pediatric
- 1.1.3 21 Languages:
Simplified Chinese, Traditional Chinese, English,
Ukrainian, Turkish, Russian, French, Portuguese,
Spanish, German, Italian, Polish, Romanian,
Bulgarian, Croatian, Thailand, Czech, Hungary,
Slovenian, Serbia, Greece
- 1.1.4 Built-in protection against defibrillator

1.2 Structure and Composition

- 1.2.1 Screen
10.4-inch LCD touch screen with standard grid
background; 1024*768 pixel
- 1.2.2 Interfaces
1 USB ports, LAN connectors, SD card slot;
Support to connect to keyboard, mouse, card
reader, printer and etc.
- 1.2.3 Built-in barcode scanner
- 1.2.4 Shortcut keys
- 1.2.5 Internal thermal printer
- 1.2.6 Concealed touch pen
- 1.2.7 Easily removable li-ion battery

1.3 Power Specifications

- 1.3.1 AC Power
100V-240V, 50Hz/60Hz, 75VA
- 1.3.2 Battery
Rechargeable li-ion battery (14.8V/1900mAh);
Working continuously for more than 4 hours.
- 1.3.3 Fuse

- 1.3.4 5TE, T2AL, 250Vac

1.4 Environmental Conditions

- 1.4.1 Operation condition
Ambient Temperature: + 5℃ ~ + 40℃
Ambient Humidity: 20%~85% (no condensation)
Atmospheric Pressure: 570hPa~1060hPa

- 1.4.2 Shipment and Storage
Ambient Temperature: -20℃ ~ +55℃
Ambient Humidity: 10%~95%
Atmospheric Pressure: 500hPa~1060hPa

1.5 Dimension and Weight

Equipment: 275mm*203mm*47.5mm; about 1.65kg
(with battery)
Package: 335mm*182mm*265mm; 4.8kg

2 Functions

2.1 Lead System

Standard Wilson, Posterior Wall, Right Chest, Right
Chest Posterior Wall, Previous Intercostal Space,
Next Intercostal Space, Cabrera, and customized
mode.

2.2 Sampling Mode

- 2.2.1 Real-time sampling mode:
Auto-simultaneous, Auto-sequential manual,
Rhythm (1-5 min)
- 2.2.2 Pre-sampling mode
- 2.2.3 Triggered sampling mode
- 2.2.4 Periodic sampling mode

2.3 Freeze

Max 60 s waveform freezing and review function.

2.4 Printing Duration

2.5 sec, 5 sec, 7 sec, 10 sec

2.5 Display and Print Layout

3×4, 3×4+1, 3×4+3, 6×2, 6×2+1, 12pro×1, 6×
2+3

2.6 Algorithm

Glasgow ECG algorithm can make precise diagnosis
according to age, gender, race, medication history
and etc., especially for AMI, Ventricular Fibrillation,
Ventricular Tachycardia, quarterly Bradycardia,
malignant arrhythmia, etc.

2.7 Recording and Analysis

- 2.7.1 Pace detection
- 2.7.2 Minnesota code
- 2.7.3 Auto diagnosis and Re-analysis
- 2.7.4 Auto measurement

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2.7.5 R-R histogram

2.7.6 R-R chart

2.8 Report Templet

2.8.1 Measurement matrix

2.8.2 Average templet

2.9 Alarm

2.9.1 Bradycardia and Tachycardia

2.9.2 Lead-off

2.9.3 Recorder unavailable

2.9.4 Low-battery

2.10 Network

Wi-Fi and cable networking

2.11 Support Graded Gain

2.12 Connectivity

Support direct access to third-party network systems, such as HIS, EMR and other systems.

2.13 Report Formats

ZQECG, JPG, PDF, PNG, XML, HL7, DICOM-JPG, DICOM-PDF, DICOM-WAVEFORM, GDT

2.14 Transfer Protocol

Support FTP, Dicom, HTTP and samba transfer protocol

2.15 Storage

2.15.1 Local

≥20,000 reports

2.15.2 USB (SD card)

Reports can be saved directly in USB (SD card) only when it is inserted. Reports are stored in ZQECG format and can be viewed on our ECG Machine or ECG workstation.

3 Technique Specification

3.1 Sampling Rate

32000 samples per second (or Hz/channel)

3.2 A/D shift

24 bits

3.3 Input Impedance:

≥60 MΩ (10 Hz)

3.4 Polarization Resistance

±950mV±3%

3.5 Frequency Response

0.01~350Hz

3.6 Time Constant

≥3.2S

3.7 CMRR

≥115dB

3.8 System Noise

RTI, peak-to-valley value: ≤15mV

3.9 Gain

40, 20, 10, 5, 2.5, Auto mm/mV

3.10 Paper Speed

5, 6.25, 10, 12pro.5, 25, 50 mm/s

3.11 Calibration Voltage

1 mV±2%

3.12 Patient Leakage Current

≤10 μV

3.13 Recording Mode

Thermal array printer;
8 dot/mm (vertical)
40 dot/mm (horizontal, 25mm/s)

3.14 Paper Specifications

Z-fold Paper; 112promm×100mm/10m

3.15 Filter Setting

AC: off/50/60Hz
Baseline Drift: off/0.01/0.05/0.3/0.6Hz
EMG: off/25/35/45/75/100/150/250/350Hz

3.16 Heart Rate Range

30-350 bpm

4 Standard Accessories

4.1 Main Unit

4.2 Limb Electrodes-Adult/IEC/4 per Set

4.3 Chest electrodes-Adult/IEC/6 per Set

4.4 ECG Cable-ECG Cable/12pro-lead/banana plug

4.5 Power cord

4.6 Power adapter

4.7 Thermal paper- 112promm×100mm/10m

4.8 User manual

4.9 Warranty card (with certificate of conformity)

4.10 Instruction card

5 Optional

5.1 Patient Cable

5.1.1 Banana type ECG cable

5.1.2 Snap type ECG cable

5.1.3 Clip type ECG cable

5.2 Electrodes

5.2.1 Chest electrodes-Adult/pediatric

5.2.2 Limb electrodes-Adult/pediatric

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5.2.3	Disposable electrodes-Snap Type-Adult/Pediatric	6.1	CE
5.2.4	Electrodes adapter	6.2	EN ISO 13485:2016
	Banana type to Snap and Clip type	6.3	EN ISO 14971:2012pro
5.3	Others	6.4	EN ISO 15223-1:2016
5.3.5	Digital ECG workstation	6.5	ISO10993-1:2009
5.3.1	Thermal paper	6.6	ISO 10993-5:2009
5.3.2	Barcode scanner- C520-USB	6.7	ISO 10993-10:2010
5.3.3	Trolley-TT04	6.8	EN 1041:2008
5.3.4	Carrying bag- TT05	6.9	EN 60601-1:2006+A1:2013
5.3.5	Carrying protector	6.10	IEC 60601-2-25: 2011
		6.11	EN 60601-1-2:2015
		6.12	EN 62304:2006/A1:2015
		6.13	EN 62366-1:2015
		6.14	EN 60601-1-6:2010/2015

6 Adhere to Standards

NOTE

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