



E80 

Digital 12-channel ECG Machine

 **BLT** **BIOLIGHT**

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Digital 12-channel ECG Machine



QWERTY keyboard
Operation
waterproof design

Flexible screen
folding design

Touch Screen
intuitionistic display

Outlook

- Touch Screen, more intuitionistic display
- 12.1 inch color LCD, 12 waveforms synchronously display
- Portable, overturning & folding design
- QWERTY keyboard design, multi-function shortcut key, easy for operation
- IPX1 waterproof performance

Data saving

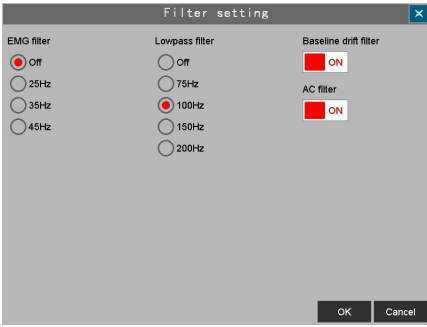
- Support saving internal data
- Support saving High-capacity data via built-in SD card
- Support saving data via U dish
- Support data transferring & reviewing & reanalyzing

Improved Performance

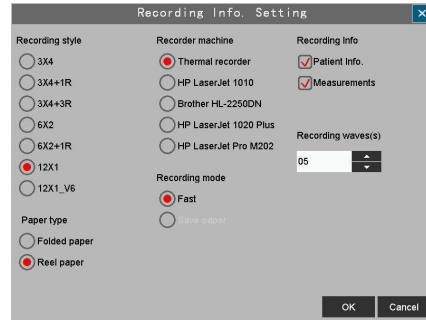
- Adapt Innovative digital filters for better performance
- Fast-speed baseline correction algorithm rapidly stabilize baseline
- Adapt 24-bit high-resolution data sampling
- Adapt 1000Hz high- frequency data sampling
- 24-bit high-accuracy data saving ensure the accuracy of follow-up data analysis
- Synchronization analysis for 12 lead waveforms, supporting
- report preview & report format adjustment

Function Upgrading

- Automatic measurement and interpretation certified by CSE database
- Rhythm report realized synchronous display of multi-channel data
- Support Pre-sampling mode, Real-time sampling mode and Trigger sampling mode
- Automatic energy saving function
- Support folded & reel type thermosensitive printing paper
- Automatic position function, support external printer
- Defibrillation protected & Pacemaker pulse rejection function
- Diagnosis analyze: ≥ 140 kinds
- Support barcode scanner
- upgradable to exercise electrocardiogram
- Fast FTP file transfer realizes data remote communication and management



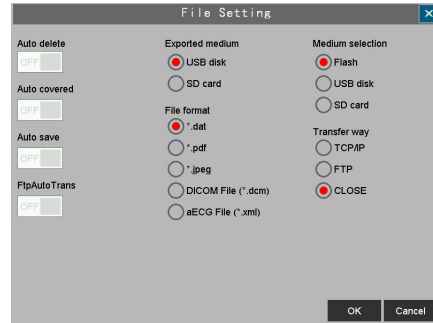
- Support four kinds of filter setting: AC filter, baseline drift filter, EMG filter, lowpass filter. High-speed baseline correction filter ensures rapidly correcting the baseline



- Support multiple modes of report recording. The length of record waveforms is selectable



- Support saving 300 seconds digital 24 bit uncompressed waveform. Random 10-second waveform can be chosen for analysis & processing



- The date dimension allows data file management to be summarized by date. Mass storage: Internal flash + SD card + U disk



- Keyboard & Touch screen operation, support Chinese & multiple languages



- Data transmitting to PC via LAN/Wi-Fi, Expand storage capacity via SD card



- Wide paper design recorder with precise positioning function, supporting Folded /Reel thermosensitive printing paper



- Unique sealing design effectively prevent liquid penetration. Perfect IPX1 waterproof performance

**Size and Weight:**

- Size: 400mm×330mm×100mm(W×H×D)
- Weight: ≤7kg

Display

- Type: 12.1", 800×600 TFT LCD touch screen

Power Supply:

- Input voltage: AC:100V~240V, 50Hz/60Hz
- Input power: 100VA
- Standard: Comply with IEC 60601-1 and IEC 60601-1-2

Battery

- Type: Rechargeable lithium-ion battery
- Rated Voltage: 11.1V
- Capability: 4000mAH
- Operating time: Used continuously for 4 hours (print 150 shares of cardiogram)
- Indication of battery capability: With

Input/Output Specification

- Keyboard: Standard PC 104 (position)
- Standard touch-screen connector (4 lines)
- Network connector: RJ-45 (one) TCP/IP; upgrade, Web function
- USB connector: 1 x USB Host Support hot-swap, external USB printer
1 x USB Device connects PC computer
- SD card: 1 x Standard SD card

Data Storage

- Fixed Memory: 800 groups of ECG data
- Optional Memory: Flash, SD card or U disk
- Storage mode: Background storage automatically
- Storage format: PDF, DAT, Dicom, FDA-XML, JPEG

Measure and Diagnosis of ECG Waveform

- HR range: 30bpm -300bpm
- HR precision: ±1bpm (10s average)
- Coefficient error: ≤5%, 0.333
- Measure info of ECG waveform: P time limit, PR interphase, QRS time limit, QT interphase, QTC interphase, RV5swing, SV1swing, RV6swing, SV2swing, RV5+SV1swing, P axis, QRS axis, T axis
- Diagnosis analyze: ≥140 kinds

Recorder

- Recording way: Thermal dot array
- Horizontal resolution: 40 dots/mm
- Vertical resolution: 8 dots/mm
- Recording speed: 5 mm/s, 6.25 mm/s, 10 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s, error: ±3%
- Record width: 215mm
- Paper: 210mm/215mm×20m(reel)
210mm×140mm×20m (Z type)
- Paper type: Folded/Reel thermosensitive printing paper
- Recording type: more than 10 kind of printing methods (Auto: 3×4, 3×4+1R, 3×4+3R, 6×2, 6×2+1R, 12×1, 12×1_V6; Manual: 3 path, 6path, 12path, Rhythm: single-lead, three-leads, R-R: R-R)

Display of ECG Collection

- Signal input: 12-lead, defibrillator-proof, Pacemaker pulse rejection
- Degree of protection against electric shock: 4000V, Type CF applied part
- Electrode offset potential: ±600 mV d.c.
- Response to frequency: 0.05Hz-200Hz
- Baseline filter: On/Off
- ECG filter: Off, 25Hz, 35Hz, 45Hz
- Lowpass filter: Off, 75Hz, 100Hz, 150Hz, 200Hz
- Frequency filter: Off/On
- Gain selection: 2.5, 5, 10, 20, 10/5, 40, AGC (mm/mV)
- Gain accuracy: ≤5%
- Time base selection: 5 mm/s, 6.25 mm/s, 10 mm/s, 12.5 mm/s, 25mm/s, 50mm/s
- Input impedance: ≥50MΩ (10Hz)
- Current of input loop: ≤15n A
- Patients leakage current: ≤10 μ A
- CMRR: ≥110 dB (with AC filter)
- Time for response to wave displaying: ≤5s
- Time for baseline recovered after switching leads: ≤1s
- Defibrillator-proof: 5000V 360J
- Standard complied with: IEC 60601-2-25

Environmental Specifications

- Operating:
 - Temperature: 5°C ~ 40°C
 - Relative humidity: 25% ~ 95% (non condensing)
 - Atmospheric pressure: 700hPa ~ 1060hPa
- Transportation and storage:
 - Temperature: -20°C ~ +55°C
 - Relative humidity: 25% ~ 95% (non condensing)
 - Atmospheric pressure: 500hPa ~ 1060 hPa

* The brochure may be revised or replaced by BIOLIGHT at any time without notice.

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