



# E65

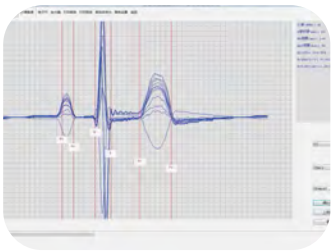
Digital 12-channel ECG Machine

 **BIOLIGHT**

[Http: //www.bl.com.cn](http://www.bl.com.cn)

# E65

## Distinguished ECG Provider



### ◆ Accurate

BIOLIGHT innovative ECG analysis algorithm supports accurate and valid diagnostic  
Automatic measurement and interpretation certified by CSE database



### ◆ Humanized

Automatic Position, support external USB printer ,Two selections for recording: Fast and Paper-saving



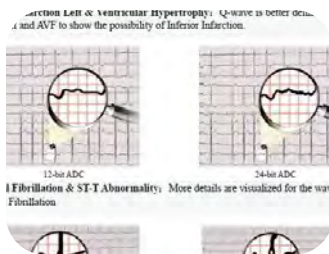
### ◆ Convenient

Full color touch screen & Alphanumeric keyboard  
Concealed and portable handle, convenient carrying  
Support barcode scanner



### ◆ Powerful Analysis

140 kinds of diagnosis analysis reports



### ◆ Anti-interference

Digital filter design ensure powerful anti-disturbance performance  
High stability of baseline: stabilize baseline in 1-3 seconds



### ◆ MultipleStorage and Communication Options

Mass storage : Internal flash + SD card + U disk  
LAN/Wi-Fi(optional) connections  
Fast FTP file transfer realizes data remote communication and management

# Intelligent ECG Data Management



BIOLIGHT ECG Series: E30/E70/E80/E65, with powerful ECG Management System, captures and stores every heartbeat of patient, and then provides a computerized ECG analysis using BIOLIGHT innovative ECG analysis algorithm, providing clinicians with the diagnostic confidence to make fast and reliable cardiac care decisions.





**Size and Weight:**

- Size: 360mm×276mm×130mm (W×H×D)
- Weight: 4.2kg

**Display**

- Type: 8.0", 800×480 TFT LCD touch screen

**Power Supply:**

- Input voltage: AC:100V~240V, 50Hz/60Hz
- Input power: 100VA
- Earth leakage current: <0.3 mA
- Standard: Comply with IEC 60601-1 and IEC 60601-1-2

**Battery**

- Type: Rechargeable lithium-ion battery
- Rated Voltage: 11.1V
- Capability: 4400mAH
- Operating time: Used continuously for 5 hours (print 500 shares of cardiogram)
- Indication of battery capability: With

**Input/Output Specification**

- Keyboard: USB keyboard
- Standard touch-screen connector (4 lines)
- Network connector: RJ-45 (one) TCP/IP; Web function
- USB connector: 1 x USB Host connects U disk ,scanner,and printer  
1 x USB Device connects PC computer
- SD card: SD card(Optional)

**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

**Environmental Specifications**

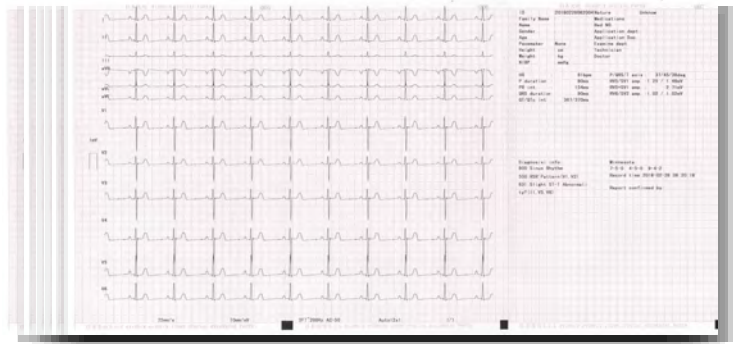
- Operating:
  - Temperature: 5°C ~ 40°C
  - Relative humidity: 25% ~ 95% (non condensing)
  - Atmospheric pressure: 700hPa ~ 1060hPa
- Transportation and storage:
  - Temperature: -20°C ~ +55°C
  - Relative humidity: 25% ~ 95% (non condensing)
  - Atmospheric pressure: 500hPa ~ 1060 hPa

**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(the effective record width of the device is 210mm)
- Paper: : 210mm×140mm×20m (Z type)
- Paper type: Folded 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(-3dB)
- Baseline filter: On/Off
- ECG filter: 25Hz,35Hz,45Hz, Close
- Lowpass filter: 75Hz,100Hz,150Hz,200Hz,Close
- Frequency filter: Off/On
- Gain selection: 2.5,5,10,20, 40,10/5,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
- Current of input loop: ≤15n A
- Patients leakage current: ≤10 μ V
- CMRR: ≥110 dB (with AC filter open)
- Time for response to wave displaying: ≤5s
- Time for baseline recovered after switching leads: ≤1s
- Defibrillator-proof: 5000V 360J  
Recovering time for defibrillator-proof ≤5 s  
Energy reduced ≤10%  
Voltage transfer ≤1V
- Standard complied with: IEC 60601-2-25



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

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E65-1803-1