

Exceptional performance

in a compact package

The PageWriter Trim III cardiograph represents the ultimate, compact, cost-effective cardiography solution from Philips. More than simply an easily transportable ECG system, the PageWriter Trim III combines ease-of-use features with a high-resolution full-color display and exceptional flexibility to meet the needs of fast-paced clinical environments.

Comprehensive interface and distribution options

To optimize clinical efficiency, patient information can be quickly entered on a real alphanumeric keyboard or optional bar code scanner.

The new digital Patient Interface Module (PIM) incorporates a color-coded lead diagram on the module, with leads intuitively arranged for quick, easy identification. In addition, each lead wire can be individually removed and replaced to help minimize maintenance costs.

And streamline information sharing with options which include a magnetic card scanner, SMART card scanner, ECG storage card and modem card. The PageWriter Trim III's native XML implementation also establishes an open ECG standard to facilitate information sharing throughout the enterprise ... and beyond.

Quality gains, breakthrough interpretation

To ensure consistently accurate ECGs, advanced signal quality indicators provide immediate feedback

on loose or inoperative electrodes, noise and other signal integrity factors.

What's more, the PageWriter Trim III offers the leading-edge interpretive capabilities of the Philips 12-Lead Algorithm, providing such breakthroughs in pediatric and adult assessment as improved pacemaker pulse classification and fast, accurate detection of ST Elevation Acute Myocardial Infarction (STEAMI).

This unique combination of features helps the PageWriter Trim III set a new standard for flexibility in a compact cardiograph.



ECG records can be previewed prior to printing and storage to ensure quality.

PHILIPS

Features

ECG Acquisition

- ECG signal acquisition of up to 12 leads for both adult and pediatric patients
- Real-time display, with patient name and ID
- Automatic and configurable pacemaker detection

Metronome

- Metronome feature with configurable options to be used with the Master's Two-Step Stress Test

ECG Quality Monitor

- Real-time ECG signal quality indicators provide instant user feedback on the location of loose or inoperable electrodes
- Color-coded waveforms indicate signal quality of each lead
- Artifact, AC, and low and high pass frequency filters

ECG Memory and Transfer

- The PageWriter Trim III cardiograph provides storage memory for 150 ECGs, with easy transfer by optional modem, CF card, (wired or wireless) LAN connection, or USB storage device

Print Preview Capability

- Full-screen preview of ECG reports exactly as they appear when printed allows for quality assessment checks prior to printing

ECG Interpretation

- The PageWriter III cardiograph includes the Philips 12-Lead Algorithm for interpretive analysis of the amplitudes, durations and morphologies of ECG waveforms and associated rhythm for adult and pediatric patients
- This clinically proven interpretation program provides configurable levels of interpretive, reason and severity statements that are printed on the ECG report

Mobile Cart Integral Part of Cardiograph

- The mobile cart provides convenient transport for the PageWriter Trim cardiographs and accessories from bedside to bedside



The Philips PageWriter Trim III Cardiograph/Cart System.

Technical Specifications

ECG Acquisition

- R/T (real-time) ECG (12 leads)
- AUTO (12 leads)
- RHYTHM (up to 12 leads)
- DISCLOSE (1 lead)

Keyboard

- Full alphanumeric keyboard

Display

- 640 x 480 pixel resolution
- Color TFT display

Signal Processing/Acquisition

Sampling Rate

- 2000 samples per second per electrode/lead.
24-bit A/D conversion provides 5 μ V resolution.

Auto Frequency Response

- 0.05-150 Hz, 0.15-150 Hz, 0.5-150 Hz,
0.05-100 Hz, 0.15-100 Hz, 0.5-100 Hz,
0.05-40 Hz, 0.15-40 Hz, 0.5-40 Hz

Rhythm Frequency Response

- 0.05-150 Hz, 0.15-150 Hz,
0.05-100 Hz, 0.15-100 Hz,
0.05-40 Hz, 0.15-40 Hz

Filters

- AC noise
- Artifact
- High and low pass

Printer Resolution

- High-resolution, digital-array printer using thermal-sensitive paper
- 200 dpi (voltage axis) by 500 dpi (time axis) at 25 mm/sec

Report Formats

- 3x4 (1R, 3R)
- 6x2 (Standard, Cabrera)
- Rhythm (up to 12 selected leads plus Cabrera)
- 12-Lead Extended Measurements
- Disclose (1 minute of continuous waveform data for 1 selected lead)
- Pan-12 (Cabrera)
- 12x1 (Standard, Cabrera)

Battery Capacity

- Typically 30 ECGs on a single charge or 30 minutes of continuous rhythm recording
- No fail operation during ECG printing

Battery Recharge

- Internal: Eight hours to full capacity
- External: Four hours to full capacity (optional)

Network Connection (optional)

- 10 Base-T IEEE 802.3 Ethernet LAN card
- Generic 802.11b wireless LAN capability through the use of the Cisco Systems AIRONET 350 series wireless LAN Adapter

FAX Capability

- Group 3, Class 1 or 2 fax modem protocol
- Support for PCMCIA fax modem

Modem (optional North America only)

- V.90, K56flex, enhanced V.34, V.32bis, V.32, V.22bis and below

Barcode Reader (optional)

- Reads Code 39 Symbology
- Flexible data entry

Magnetic Barcode Reader (optional)

- ISO-7810, 7811-1,-2,-3,-4,-5
- Four configurable patient ID fields

ECG Storage

- Internal: 150 ECGs

- External: 150 ECGs
 - Optional PCMCIA card
 - Optional USB Storage Device

ECG File Formats

- XML and XML SVG
- Stored at 500Hz

Power and Environment**Line Power**

- 100-240 Vac, 50/60Hz, 65 VA

Environmental Operating Conditions

- 10° to 40°C (50° to 104°F)
- 15% to 80% relative humidity (non-condensing)
- Up to 4,550 m (15,000 ft.) altitude

Environmental Storage Conditions

- 0° to 50°C (0° to 122°F)
- 15% to 90% relative humidity (non-condensing)
- Up to 4,550 m (15,000 ft.) altitude

Cardiograph Dimensions

- 388 x 310 x 176 mm (15.3 x 12.2 x 6.9 in)

Cardiograph Weight

- 7.38 kg (16.3 lb): Includes battery, patient interface module, lead wires, alligator clips, electrode pack and paper pack.

Patient Interface Module

- Remote, microprocessor-controlled, high-resolution module

Safety & Performance

Meets the following requirements for Safety and Performance:

- IEC 60601-1: 1988 +A1:1991 +A2:1995 General Requirement for Safety
- IEC 60601-1-2: 2001 General Requirements for Safety for Electromagnetic Compatibility
- IEC 60601-2-25: 1993 + A1:1999 Safety of Electrocardiograms
- UL 2601-1: 1997 US General Requirements for Safety
- CAN/CSA-C22.2 No. 601.1-M90 S1:1994 B:1996
- AAMI EC11 1991: Diagnostic Electrocardiographic Devices
- CISPR11: 1997 + A1:1999 + A2:2002 Radio Frequency Disturbance, Limits and Methods of Test Group 1 Class B
- JIST 1202: 1998 Japanese Industrial Standard for Electrocardiographs

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On the web

www.medical.philips.com

Via e-mail

medical@philips.com

By fax

+31 40 27 64 887

By postal service

Philips Medical Systems

Global Information Center

I.B.R.S./C.C.R.I. Numéro 11088

5600 VC Eindhoven

Pays-Bas/The Netherlands

(no stamp required)

Asia

Tel: +852 2821 5888

Europe, Middle East, Africa

Tel: +31 40 27 87246

Latin America

Tel: +1 954 628 1000

North America

Tel: +1 800 229 6417

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Printed in The Netherlands.

4522 962 09991/860 * FEB 2006

