



# Easy. Accurate. Connected.

**Philips PageWriter Trim Cardiographs**

high quality 12-lead ECG reports for your clinical environment.

**PHILIPS**



## Why Philips PageWriter Trim?

### **Save Time.**

Perform more 12-lead ECG tests in less time to speed workflow.

### **Save Money.**

Improve productivity and cut costs with affordable PageWriter Trim cardiographs.

### **Save Lives.**

Philips 12-Lead Algorithm provides interpretive statements to help quickly assess a patient's condition.

## What are you looking for in a cardiograph?

- An affordable solution that's easy to use?
- Industry-leading analysis and interpretations that aid clinical decision-making?
- A cardiograph built on industry standards to simplify ECG report sharing—both within and beyond the walls of your clinic or office?

Philips PageWriter Trim cardiographs deliver all this and more. Our family of proven ECG solutions is designed to meet the clinical, operational, and financial needs of virtually any patient care environment—from a single physician's office to a large clinic.

## Simplify life.

All Philips PageWriter cardiographs are easy to connect, easy to operate, and easy to transport. A ready-to-go patient module keeps lead wires organized, so there's no tangled mess to slow you down. A convenient trim knob helps you navigate data screens, making it simple to input patient identifying information including age and gender. And a compact cart can be maneuvered within tight spaces to where it's needed most.

## Improve accuracy.

No matter which PageWriter Trim is right for your clinical setting, you can count on the Philips 12-lead ECG report. Patient signals are immediately converted digitally at the Patient Interface Module to provide the highest quality input to the Philips 12-Lead Algorithm. This groundbreaking algorithm, available in all three PageWriter Trim models, sets a new standard in automated interpretation. So you can make clinical decisions with confidence.



#### Easy to use.

PageWriter Trim cardiographs are designed to fit the way you work—with simple, intuitive controls and data entry via a real keyboard. A bar code scanner is available, as well as smart and magnetic card readers.



#### Easy to share.

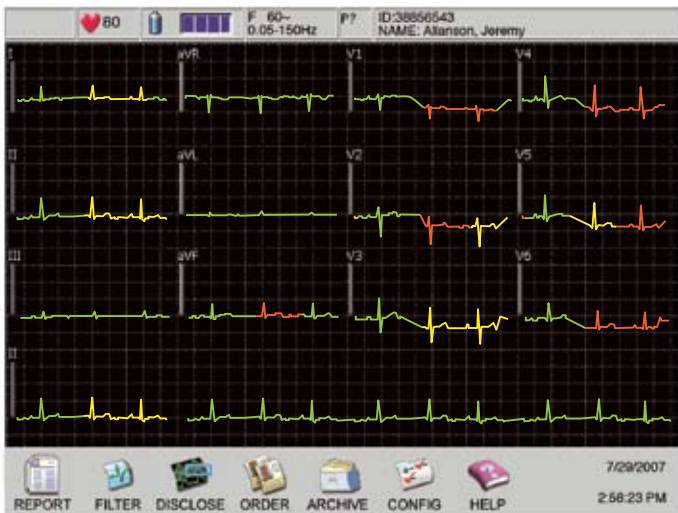
PageWriter ECG reports are stored using industry standard XML, making it easy to share information or move data to your ECG management system.

## Get connected.

Does your organization store ECGs in a central management system? Or do you network with cardiologists who overread ECGs and provide second opinions?

Then PageWriter Trim III is for you. This proven performer is the first to support the reporting, storage, and transmission of 12-lead ECG data using industry standard XML. You can connect directly to Philips TraceMasterVue ECG Management System. ECGs can be transmitted anywhere at anytime allowing you instant, secure access to patient reports. You now have an open road to an all-EMR future.

PageWriter Trim III is packed with easy-to-use features like a high-resolution 6.5-inch color screen, a full-size keyboard, an intuitive Patient Interface Module, as well as multiple options to help streamline information sharing. These include modem, USB, wired LAN or wireless 802.11(b) encrypted connectivity. PageWriter Trim III is ready to meet the needs of fast-paced clinical environments like yours.



#### Easy to view.

View all 12 patient leads simultaneously; color coded for signal quality.

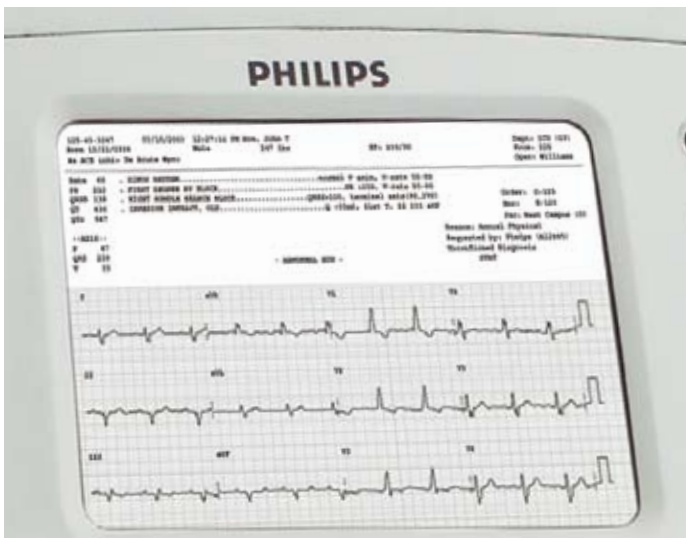
“My last PageWriter cardiograph lasted more than than six months in increased throughput alone. This cardiograph just keeps going and going. And

## Print high quality ECG reports in a flash.

Your clinic demands top-of-the-line performance and the PageWriter Trim II delivers. It offers the industry-leading Philips 12-Lead Algorithm and produces high-quality printed output for unrivaled consistency of data acquisition and interpretation. Plus you can easily monitor patient ECGs on the Trim II's high-resolution 6.5-inch display.

PageWriter Trim II is an affordable and versatile cardiograph that makes it easy to acquire and print ECG reports in virtually any patient care setting. This rugged, reliable model delivers years of trouble-free service, making it ideal for a demanding environment.

Like all PageWriter cardiographs, it's extremely simple to set up and operate, and it's designed to streamline the entire ECG testing process—to speed workflow and payback.



### Save time and paper.

Preview a completed ECG on the screen to confirm that you have a high quality ECG—before you print a paper report.

### Automatic lead placement detection.

Identify 20 different pairs of arm and chest lead reversals to help save time and avoid errors in interpretation.

10 years, and believe me, we drove it hard every day. The PageWriter Trim literally paid for itself in less PageWriter was just so easy to use that we cut the average ECG recording time by 30%. Philips is always right there to make sure it does.” —Mark Chimney, M.D., CardioClinic North



## High performance without high costs.

For unmatched patient convenience, you can quickly and easily conduct accurate, reliable 12-lead ECG tests right in your office or clinic with PageWriter Trim I.

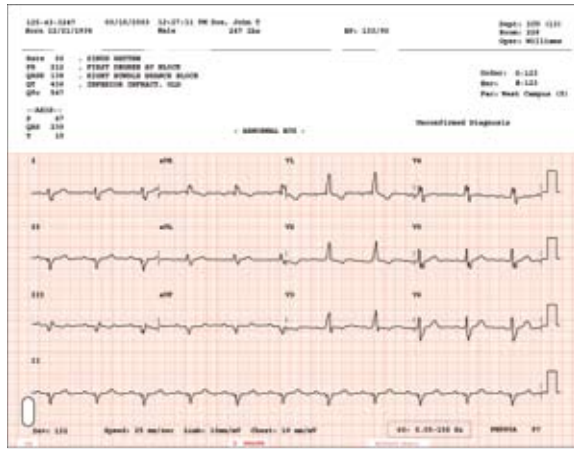
Philips' most economical cardiograph offers the best-in-class Philips 12-Lead Algorithm and generates detailed, printed ECGs at any point of care—complete with optional interpretation which highlights areas for review.

PageWriter Trim I is compact in size and easy to learn and use. That makes it a great choice for any busy clinical setting committed to lowering costs, improving efficiency, and delivering a high level of patient care.



### Easy to connect.

A digital Patient Interface Module neatly organizes lead wires, so they're tangle-free and ready to use.



### Industry Leader.

Philips PageWriter Trim cardiographs analyze 12 simultaneously acquired ECG leads to support more accurate diagnosis and treatment.



### Philips 12-Lead sets the standard. Again.

The Philips 12-Lead Algorithm, developed by the Advanced Algorithms Research Center (AARC), is the result of more than three decades of continuous innovation, development, and refinement. Designed in accordance with the latest clinical standards, it accurately analyzes 12 simultaneously acquired ECG leads. It quickly delivers an industry leading interpretation of ECG data—particularly in pediatric analysis, pacemaker pulse detection, QT measurements, and STEMI detection. Our 12-lead algorithm helps physicians accurately assess a patient's condition and make clinical decisions with confidence.

	Option Code	PageWriter Trim I	PageWriter Trim II	PageWriter Trim III
Model Number		860290	860288	860286
<b>ECG Functions</b>				
12-Lead Reports		3x4 1R, 6x2 in Standard and Cabrera	3x4, 3x4 1R, 3x4 3R, 6x2, 12x1 in Standard and Cabrera formats, plus Pan 12 Cabrera	
Cardiac Measurements		Eight standard interval, duration and axis measurements		
Extended Measurements		—	—	46 x 12 measurements of Morphology analysis; 21 parameters of Rhythm analysis
Rhythm Strips		3 and 6 pre-set lead selections	Up to 12 selected leads plus Cabrera	
Full Disclosure		—	One minute of continuous waveform data for one selected lead	
<b>Physician Diagnostic Tools</b>				
Philips 12-Lead Algorithm includes the following	C20	Optional	Not available with option C11	Standard
Severity and Interpretive Statements		8 severity levels; 558 interpretive statements		
Reasons		—	Selectable explanations of interpretive statements	
Lead Placement Detection		—	Detects 20 different lead reversals	
Borderline Statement Suppression		—	Three configurable settings	
<b>User Interface</b>				
Trim Knob		3.5 cm rotating navigational tool with "Click-to-Select" functionality		
Keyboard		—	65 button, full alphanumeric keyboard	
<b>Display</b>				
Size		2 lines x 40 characters	6.5 inch	
Resolution		5 x 7 dot/character	640 x 480 resolution	
Colors		—	256 gray levels	64K colors
Technology		LCD	TFT	
<b>Signal Processing</b>				
Patient Interface Module		Remote, microprocessor-controlled, digital module provides 5µV resolution		
<b>Filters</b>				
<b>Pre-Processing Filters</b>				
AC Noise		50 or 60 Hz		
Signal Processing		Artifact Rejection and Baseline Wander		
<b>Presentation Filters—12-Lead</b>				
High Pass		0.05, 0.15 and 0.5 Hz		
Low Pass		40, 100 and 150 Hz		
<b>Presentation Filters—Rhythm</b>				
High Pass		0.05 and 0.15 Hz		
Low Pass		40, 100 and 150 Hz		
<b>Signal Quality Indicators</b>				
Leads Off Advisory		Displays the label of any loose or disconnected leads/electrodes		
Lead Colors		—	One	Four
Heart Rate		Continuous display of patient heart rate		
Print Preview		—	Full screen preview of waveforms prior to printing	
<b>User Education</b>				
Application Help Screens		—	Integrated graphical HELP screens for primary functions	
Self Paced Training		Computerized, interactive, dynamic animation covering all major clinical functionalities		

Continued

	Option Code	PageWriter Trim I	PageWriter Trim II	PageWriter Trim III
Model Number		860290	860288	860286
<b>Printer</b>				
Resolution		High-resolution, digital-array printer using thermal-sensitive paper; 200 dpi (voltage axis) by 500 dpi (time axis) at 25 mm/sec		
<b>Connectivity</b>				
Modem	C15	—	V.90, K56flex, enhanced V.34, V.32bis, V.32, V.22bis and below (North America only)	
Fax	Inc. w/C15	—	Group 3, Class 1 or 2 fax modem protocol	
LAN Connectivity <i>10 Base-T IEEE 802.3 Ethernet LAN card</i>	C11	—	Not available with option C20	Optional
Wireless Connectivity	C42	—	—	802.11(b) WEP enabled
Internal Storage		—	50 ECGs	150 ECGs
External Storage		—	150 ECGs using USB memory or PCMCIA card	
System Software		—	Store, retrieve, view, print and e-mail completed ECG reports from a Windows® based PC	
<b>Automated Data Input</b>				
Bar Code Reader	C12	—	Reads Code 39 Symbology; flexible field data entry	
Magnetic Card Reader	C13	—	Four configurable Patient ID fields; ISO 7810, 7811-1,-2,-3,-4,-5	
Smart Card Reader	C14	—	Reads 4 defined Patient ID fields; Compliant with ISO 7816 and EMV 3.1.1; Supports SLE4418/28 and SLE4443/42 @ 5V, 3V or 1.8V	
<b>Electrical</b>				
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		
Battery Recharge - External	860304	Five hours to full capacity		
Mains power		100-240 VAC, 50/60 Hz		
Power Consumption		30 W max		
<b>Mechanical</b>				
Dimensions		388 x 310 x 106 mm (15.3 x 12.2 x 4.2 in)	388 x 310 x 176 mm (15.3 x 12.2 x 6.9 in)	
Weight <i>Includes battery, patient module, lead wires, alligator clips, electrode pack and paper pack</i>		6.95 kg (15.3 lb)	7.38 kg (16.3 lb)	
<b>Environmental</b>				
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		
Storage Conditions		0° to 50°C (32° to 122°F); 15% to 90% relative humidity (non-condensing); up to 4,550 m (15,000 ft.) altitude		
<b>Safety and Performance</b>				
International Standards and Regulations		<ul style="list-style-type: none"> <li>• IEC 60601-1: 1988 +A1:1991 +A2:1995 General Requirement for Safety</li> <li>• IEC 60601-1-2: 2001 General Requirements for Safety for Electromagnetic Compatibility</li> <li>• IEC 60601-2-25: 1993 + A1:1999 Safety of Electrocardiographs</li> <li>• IEC 60601-2-51: 2003 Particular requirements for the safety and necessary performance of electrocardiographs</li> <li>• UL 2601-1: 1997 US General Requirements for Safety</li> <li>• CAN/CSA-C22.2 No. 601.1-M90 S1:1994 B:1996; AAMI EC11 1991: Diagnostic Electrocardiographic Devices</li> <li>• CISPR11: 1997 + A1:1999 + A2:2002 Radio Frequency Disturbance, Limits and Methods of Test Group 1 Class B</li> <li>• JIST 1202: 1998 Japanese Industrial Standard for Electrocardiographs</li> </ul>		

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