

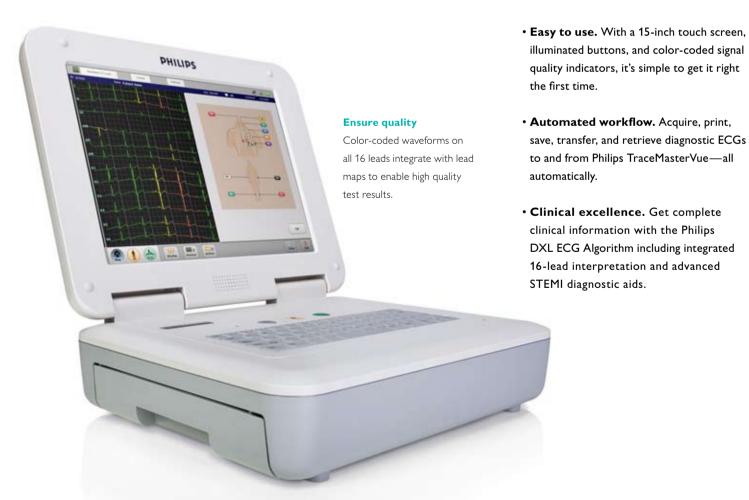
The right touch

Philips PageWriter TC70 Cardiograph



Make it easy. Make it fast. Make it right.

Now there's a state-of-the-art cardiograph that simplifies diagnostic ECG testing and streamlines workflow—by delivering high quality clinical reports when and where you need them. No matter how hectic your clinical environment, the Philips PageWriter TC70 can help you simplify cardiac patient care.





Avoid tangles

The Trident lead system unites three lead wires to reduce tangling and reversals.



Follow the leads

An anatomical Patient Information Module mirrors the body, so clinicians can quickly find the right lead wires without looking.



Just touch it

Take ECGs from the large touch screen, the keyboard, or the Patient Interface Module with one tap of the green button.

It's as easy as 1-2-3

User-friendly illuminated buttons speed workflow











Connect Leads

Check for loose leads.

Enter ID

Barcode ID to find record from worklist.

Take ECG

Print, save, transfer and retrieve previous ECG.

Streamline workflow from start to finish



PageWriter TC70 is designed from the ground up to speed the flow of diagnostic ECGs throughout your hospital enterprise. It streamlines everything from downloading work orders and marking cardiac events to acquiring, printing, and transferring ECG reports to your TraceMasterVue ECG management system. And it gives you one-button access to previous ECGs to help speed decision making.

Pinpoint concerns

Quickly mark up to 15 different cardiac events for later review with a single touch of the screen.

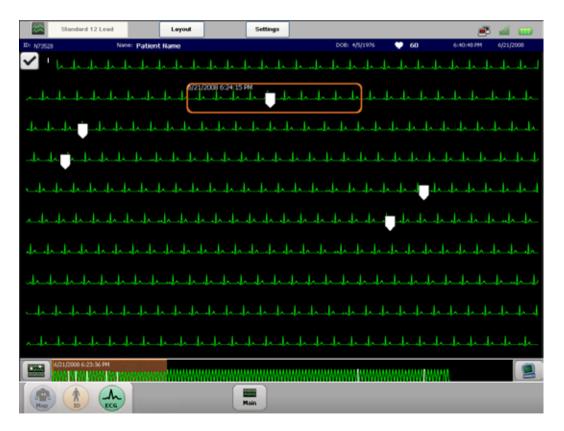


Never miss a beat

Capture and store 20 minutes of uninterrupted 16-lead data to document intermittent arrhythmias. Select any 10 seconds for a fully interpreted report.

Save it

After 20 minutes, cardiac event data is automatically saved in a time capsule, so you never lose sight of an important clinical episode.





TraceMasterVue ECG Management System



Synchronize time

Auto set the PageWriter time with your hospital time master to obtain accurate documentation of your patient's clinical history.

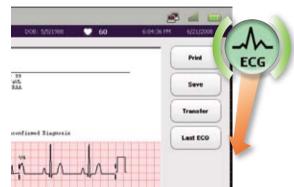


Download orders

Import ECG orders with complete patient information from Philips TraceMasterVue.



PageWriter TC70 Cardiograph



One-touch workflow

PageWriter TC70 can be configured to automatically print, save, transfer, and retrieve a previous ECG—with one touch of a button.



Last ECG

Ever need a previous ECG to do a thorough clinical assessment? With PageWriter TC70, you have it. Previous ECGs are available with a single click.

ECGs that meet your high standards

PageWriter TC70 is designed to meet your high clinical standards for quality, accuracy, and consistent performance. The Philips DXL ECG Algorithm uses advanced methods to analyze 16 simultaneously acquired leads. It delivers an up-to-date interpretation of ECG data—particularly with expanded ST Elevated Myocardial Infarction (STEMI) diagnostic aids, as well as leading pediatric analysis, pacemaker pulse detection, and QT measurements.



Reveal more

Our DXL 16-Lead Algorithm incorporates right heart and posterior wall information across a broad range of adult and pediatric conditions.

ST Map

At a glance get a clear indication of ST elevation for quick triage.

Critical Values

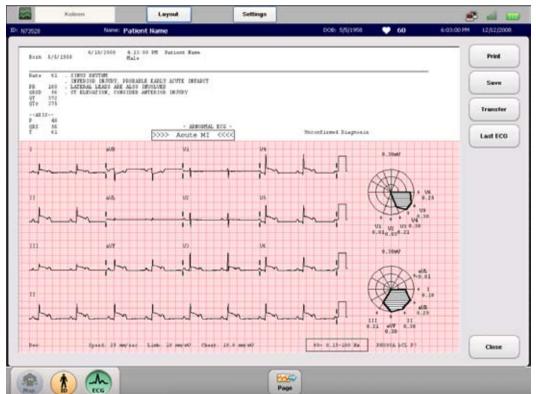
Quickly identify patients that need urgent care in support of Joint Commission Patient Safety goals.

STFMI-CA

Statements suggest which coronary artery may be occluded.

Up-to-date

The nomenclature embedded into PageWriter TC70 is consistent with AHA/ACC recommendations.



Ensure quality

Preview ECG waveforms and interpretation on the 15-inch touch screen to check for signal quality before printing.



Be sure

Unique LeadCheck software tests for 19 different lead reversals to help you get it right the first time.

Stay connected

Because it's built on a standard platform, PageWriter TC70 fits seamlessly into your existing IT infrastructure. So you're always connected—without being locked in.

Maintain security

The PageWriter TC70 delivers secure, wireless connectivity via standard LAN protocols like 802.11(i) and WPA2 to protect the privacy of patient, staff, and financial information.



PageWriter TC70 benefits

Clinicians

- Simple 1-2-3 process
- 3-in-1 Trident lead wires minimize tangling
- Mark events within 20 minutes of patient's ECG
- Anatomic PIM design supports correct lead placement

Department Managers

- Automated sequence speeds workflow
- Critical Values identify patients who need urgent attention
- LeadCheck reveals lead reversals at the bedside

IT Administrators

- Strong wireless security toolset 802.11(i), WPA2
- · Connectivity using industry standards
- Built on a native XML format

Cardiologists

- Integrated interpretation on 16 leads
- Advanced STEMI diagnostic tools
- Previous ECGs aid clinical diagnosis

Good To Go

A compact user-friendly mobile cart lets you speed PageWriter TC70 wherever you need to go.

Technical Specifications

ECG Functions

Simultaneous Lead Acquisition

ECG Reports: 12-Lead

ECG Reports: Extended Leads

Rhythm Strips Event Marking

Full Disclosure

Timed FCG Report Storage/Transfer • Up to 16 leads

3x4, 3x4 1R, 3x4 3R, 3x4 ST, 3x4 1R ST, 6x2, 12x1. Standard and Cabrera formats, plus Pan 12 Cabrera

• 3x5, 3x5 1R, 3x5 3R, 4x4, 4x4 1R. Standard and Cabrera formats

• Up to 16 configurable leads

 15 independent events can be marked for later review and analysis

· Twenty minute history of all 16 leads

· Complete ECG report of any 10 seconds Support for pharma stress protocols

• Full fidelity at 500 Hz of all 10 sec for up to 16 leads

• XML format (schema published)

Philips DXL 16-Lead ECG Algorithm

Interpretive Statements

Leads Used in Diagnosis LeadCheck

Borderline Statement Suppression • Standard Measurements

Extended Measurements

Reasons

Nomenclature

STEMI Diagnostic Aids

Graphical ST Vector Unique Right Heart Statements Unique Posterior MI Statements • 16 statements called by posterior leads STEMI-CA Critical Values

• >600 interpretive statements

• Integrated pediatric analysis

• Standard 12 leads plus V3R, V4R, V5R, V7, V8, and V9

Lead placement software detects 19 different lead reversals

Three configurable settings

Ten interval, duration, and axis measurements

Configurable QT correction method

• 46 measurements of Morphology analysis in each of 16 leads; 21 parameters of Rhythm analysis

Selectable explanations of all interpretive statements

• Conforms to 2007 AHA/ACC recommendations

• Two polar ST Maps; frontal and transverse planes

9 statements called by right-chest leads

Criteria that suggest the probable site of the occlusion

 Highlights 4 conditions requiring immediate clinical attention

Networked Features (requires TraceMasterVue)

Central Time Management Last ECG

Orders

Signal Quality Indicators Leads Off Advisory

Lead Color LeadCheck

Heart Rate Print Preview

Training

Application Help

Self Paced

User Interface

Touch Screen

Keyboard

Display

Size Resolution Colors

Signal Processing

Sampling Rate Patient Interface Module • Time can be synchronized to a networked time master

Automated retrieval of previous ECG

Configurable rules to retrieve cardiograph-specific Worklists

• Anatomical lead map displays the location and label of any loose or disconnected leads/electrodes

· Four colors to indicate levels of waveform quality • Lead placement software detects 19 different lead

· Continuous display of patient heart rate

• Full screen preview of complete 16 lead report prior to printing

· Integrated graphical HELP screens for primary functions

· Computerized, interactive, dynamic animation covering all major clinical functionalities

1-2-3 operation

• Context-sensitive application

• 5-wire, resistive touchscreen

• 65 button, standard full alphanumeric keyboard

• Special characters supported

• 15 inch TFT

• Active matrix 1024 x 768 XGA

64K colors

• 8,000 samples per second per lead wire

· Remote, microprocessor-controlled digital module provides 5µV resolution

Printer

Resolution

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

• 10/100 Base-T IEEE 802.3 ethernet via on-board RJ45

V.90, K56flex, enhanced V.34, V.32bis, V.32,

• Group 3, Class 1 or 2 fax modem protocol

· 200 ECGs with optional USB Device

· Four configurable Patient ID fields

• ISO 7816 and EMV 3.1.1; Supports SLE 4418/28

V.22bis and below

• 802.11(b), 802.11(g)

200 FCGs

802.11(i), WPA, WPA2

• Reads Code 39 Symbology

• ISO 7810, 7811-1,-2,-3,-4,-5

· Flexible field data entry

Connectivity

Modem (option H11)

Fax

(included in H11) LAN Connectivity Wireless Connectivity

(option D21) Wireless Security (option D21) Internal Storage

External Storage

Automated Data Input Bar Code Reader

(option H12) Magnetic Card Reader (option H13)

Smart "IC" Card Reader (option H14)

Pre-Processing Filters AC Noise

Signal Processing

50 or 60 Hz

· Artifact Rejection and Baseline Wander

Presentation Filters - 10 sec Reports

High Pass Low Pass

• 0.05, 0.15, and 0.5 Hz

and SLF 4443/42

• 40, 100, and 150 Hz

· 40, 100, and 150 Hz

Presentation Filters - Rhythm 0.05 and 0.15 Hz

High Pass Low Pass

Electrical Battery Battery Capacity

Battery Recharge External Battery Charger/ Calibrator (9898 0316 2021)

AC power Power Consumption

Mechanical Dimensions

Weight

• 2 modules; hot swappable

Typically 50 ECGs on a single charge or 60 minutes of continuous rhythm recording; No fail operation during ECG printing

• 5 hours to full capacity • 4 hours to full capacity

100-240 VAC, 50/60 Hz

75 W max

• $40 \times 33 \times 16 \text{ cm} (15.7 \times 13 \times 6.3 \text{ in})$

• 13 kg (28 lb)

· Includes battery, patient module, lead wires, alligator clips, electrode pack and paper pack

Environmental Operating Conditions

Storage Conditions

 15% to 80% relative humidity (non-condensing); Up to 4.550 m (15.000 ft.) altitude

(-20°C to 50°C) (-4°F to 122°F);

10° to 40°C (50°F to 104°F);

• 10% to 90% relative humidity (non-condensing);

• Up to 4,550 m (15,000 ft.) altitude

Safety and Performance

International Standards and Regulations

• IEC 60601-1: 1988 +A1:1991 +A2:1995 General Requirement for Safety

• IEC 60601-2-25: 1993 + A1:1999 Safety of Electrocardiographs

• IEC 60601-2-51: 2003: Particular Requirements for

Safety UL 2601-1: 2003 1997 US General Requirements for

CAN/CSA-C22.2 No. 601.1-M90 S1:1994 B:1996

• AAMI EC11 1991 (R: 2001): Diagnostic Electrocardiographic Devices



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