

# Always in touch

### Philips PageWriter TC50 cardiograph

You need to fit a lot into every day. That's why we've fit a lot into the Philips PageWriter TC50 cardiograph. It's packed with advances to make it easy to help you meet the demands you face in patient care. Both easy to use and understand, it also has the workflow performance and advanced clinical decision support tools to allow you to simply focus on your patients. PageWriter's native DICOM interoperability provides direct access to ECG orders from your current DICOM MWL provider and storage of resulting DICOM format ECGs to your existing PACS.



#### **Key advantages**

- As easy as 1-2-3; each button lights in sequence guiding the user in administering an ECG
- Philips DXL ECG Algorithm provides exceptional ECG interpretations and a suite of advanced STEMI decision support tools
- Scalable system streamlines your ECG workflow, with wired and wireless connections via XML, HL7, and native industry DICOM standards



### Features

#### PageWriter TC50 Cardiograph (860310)

ECG functions	
Simultaneous lead acquisition	Up to 18 leads
ECG reports: 12-lead	<ul> <li>3x4, 3x4 1R, 3x4 3R, 3x4 1R plus ST Maps, 6x2, 12x1</li> <li>Standard and Cabrera formats, plus Pan 12-Cabrera</li> </ul>
ECG reports: Extended leads (H22)	<ul> <li>3x4 3R ST, 3x5, 3x5 1R plus ST Maps, 3x5 3R, 4x4, 4x4 1R plus ST Maps, 6x3, 6x3 1R, 3x5 + 1x3 1R, 3x4 + 2x3 1R, 3x4 + 3x2</li> <li>Standard and Cabrera format plus PAN 18 Cabrera</li> </ul>
Rhythm strips	Up to 18 configurable leads
Full disclosure	<ul><li>Ten minute history of all 18 leads</li><li>Complete ECG report of any 10 seconds</li></ul>
Event marking	<ul> <li>Ten independent events can be marked for later review and analysis</li> <li>Event markers appear on ECG reports</li> </ul>
Timed ECG	Support for pharma stress protocols
Report storage/ transfer	Full fidelity at 500Hz of 10 seconds for up to 18 leads
Data format	PDF or XML, DICOM 12-lead ECG, and DICOM General ECG

1 AHA/ACCF/HRS Recommendations for the Standardization and Interpretation of the Electrocardiogram, Part II: Electrocardiography Diagnostic Statement List. J Am Coll Cardiology, 2007; 49:1128-135.
 2 AHA/ACCF/HRS Recommendations for the Standardization and Interpretation of the Electrocardiogram, Part VI: Acute Ischemia/Infarction. Circulation, 2009; 119:e262-e270.

Fimps DAL 16-Lea	d ECG Algorithm		
Interpretive	<ul> <li>&gt;600 interpretive statements</li> </ul>		
statements	<ul> <li>Integrated pediatric analysis</li> </ul>		
Leads used in	Standard 12 leads plus V3R, V4R, V5R, V7,		
diagnosis	V8, and V9		
Borderline statement	Three configurable settings		
suppression			
Standard	• Ten interval, duration, and axis measurements		
measurements	<ul> <li>Configurable QT correction method</li> </ul>		
Extended	• 46 measurements of morphology analysis		
measurements	in each of the 18 leads		
	<ul> <li>21 parameters of rhythm analysis</li> </ul>		
Reasons	Selectable explanations of all interpretive		
	statements		
Nomenclature	Aligned with 2007 AHA/ACCF/HRS		
	Recommendations, Part II <sup>1</sup>		
STEMI clinical decision support			
Graphical ST	<ul> <li>Five ECG reports with polar ST Maps</li> </ul>		
presentation	<ul> <li>Frontal and transverse planes</li> </ul>		
Unique right heart	Nine statements called by right-chest leads		
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statements	, .		
	16 statements called by posterior leads		
statements			
statements Unique posterior MI			
statements Unique posterior MI statements	16 statements called by posterior leads		
statements Unique posterior MI statements Age and gender	16 statements called by posterior leads Based upon 2009 AHA/ACCF/HRS		
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statements Unique posterior MI statements Age and gender criteria	16 statements called by posterior leads Based upon 2009 AHA/ACCF/HRS Recommendations, Part VI: Acute Ischemia/Infarction <sup>2</sup>		
statements Unique posterior MI statements Age and gender criteria STEMI-CA	16 statements called by posterior leads Based upon 2009 AHA/ACCF/HRS Recommendations, Part VI: Acute Ischemia/Infarction <sup>2</sup> • Criteria that suggest any of four probable		
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statements Unique posterior MI statements Age and gender criteria STEMI-CA (Culprit Artery)	<ul> <li>16 statements called by posterior leads</li> <li>Based upon 2009 AHA/ACCF/HRS Recommendations, Part VI: Acute Ischemia/Infarction<sup>2</sup></li> <li>Criteria that suggest any of four probable sites of the occluded coronary artery</li> <li>Based upon 2009 AHA/ACCF/HRS Recommendations, Part VI<sup>2</sup></li> </ul>		



The PageWriter TC50 is so user friendly an experienced clinician can successfully take an ECG report with minimal training.



Clinical decision support tools from the DXL ECG Algorithm help guide patient care.



Designed around you, the compact system provides advanced features to support a variety of workflows.

# Technical specifications

Central time managementTime can be manually or automatically synchronized to a Network Time Server v IntelliSpace ECG or IntelliBridge EnterprisOrders worklist (D01)• Download of orders worklist from networked server	
(D01) IntelliSpace ECG or IntelliBridge Enterpris Orders worklist (D01) • Download of orders worklist from	
Orders worklist (D01) • Download of orders worklist from	
notworked server	
• User-configurable drop down lists (e.g.,	
by location, user, or shift)	
Ad-hoc query for specific orders based upo	
multiple user-entered or scanned search	
criteria (e.g., patient ID, last/first name)	
• Supported by Open Worklist with	
IntelliSpace ECG and select departmenta	
systems	
Supported by standard HL7 and DICOM	
interfaces via IntelliBridge Enterprise for	
departmental and hospital systems	
Supported by DICOM modality worklist	
within DICOM MWL system	
ADT (D02) • Query and retrieval of patient	
demographic information	
• •	
Based upon user-entered or scanned sear ariteria (a.g. periods ID, least/first searce)	
criteria (e.g., patient ID, last/first name)	
Supported by standard HL7 interface via	
IntelliSpace Enterprise for hospital system	
• Automatic retrieval of previous ECG or	
list of available ECGs for current patient	
Supported by IntelliSpace ECG	
active query • Retrieval of selected ECGs based upon	
and the second	
user-entered search criteria	
<ul> <li>Supported by TraceMasterVue</li> </ul>	
• Supported by TraceMasterVue Manual orders (D07) Create patient worklists with complete	
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Supported by TraceMasterVue Manual orders (D07) Create patient worklists with complete demographic information for later retriev DICOM ECG result Create DICOM 12-lead ECG	
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Supported by TraceMasterVue Manual orders (D07) Create patient worklists with complete demographic information for later retriev DICOM ECG result OUTPUT (D08) Create DICOM 12-lead ECG Generate DICOM General ECG Signal quality indicators	
Supported by TraceMasterVue     Supported by TraceMasterVue     Create patient worklists with complete     demographic information for later retriev     OICOM ECG result     output (D08)     Generate DICOM General ECG     Signal quality indicators     Leads-off advisory     Anatomical lead map displays the location	
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<ul> <li>Supported by TraceMasterVue</li> <li>Manual orders (D07)</li> <li>Create patient worklists with complete demographic information for later retriev</li> <li>Create DICOM 12-lead ECG</li> <li>Generate DICOM General ECG</li> <li>Signal quality indicators</li> <li>Leads-off advisory</li> <li>Anatomical lead map displays the location and label of loose or disconnected leads/ electrodes</li> <li>Lead color</li> <li>Four colors to indicate quality of individual lead LeadCheck</li> <li>Lead reversals</li> </ul>	
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<ul> <li>Supported by TraceMasterVue</li> <li>Manual orders (D07)</li> <li>Create patient worklists with complete demographic information for later retriev</li> <li>DICOM ECG result</li> <li>Create DICOM 12-lead ECG</li> <li>Generate DICOM General ECG</li> <li>Signal quality indicators</li> <li>Leads-off advisory</li> <li>Anatomical lead map displays the location and label of loose or disconnected leads/ electrodes</li> <li>Lead color</li> <li>Four colors to indicate quality of individual lead</li> <li>LeadCheck</li> <li>Lead-placement software detects 20 different lead reversals</li> <li>Heart rate</li> <li>Continuous display of patient heart rate</li> <li>Print preview</li> <li>Full-screen preview of ECG waveforms prior to printing</li> <li>User training and self help</li> <li>Application help</li> <li>Integrated graphical help for primary functions</li> <li>Self-paced training</li> </ul>	
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Lleav interface				
User interface				
Touchscreen	• 1-2-3 operation			
	Context-sensitive application			
	• Five-wire, resistive touchscreen			
Keyboard	<ul> <li>Backlit 1-2-3 buttons</li> </ul>			
	<ul> <li>65-button, standard full alphanumeric</li> </ul>			
	keyboard			
	<ul> <li>Special characters supported</li> </ul>			
Membrane keyboard	Silicone-based flexible cover protects			
cover	keyboard from particulate and liquid			
	ingress			
Display				
Size	10.4in TFT active matrix			
Resolution	800 x 600 SVGA			
Colors	64K colors			
Patient connections				
Patient Interface	• Remote, microprocessor-controlled			
Module (PIM)	digital module provides 5µV resolution			
· · · · ·	• Acquire data at 8,000 samples per second			
	per lead for 12/18 lead ECG			
Long lead set	Extended length lead wires enable greater			
(H23)	distances between the PIM and the patient			
(	connections			
End connectors (ad	aptors)			
End connectors (ad Alligator clips (E01)				
Alligator clips (E01)	Alligator clips for tab electrodes			
	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces			
Alligator clips (E01) Wide tab (E02)	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces twisting (AAMI only)			
Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04)	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces twisting (AAMI only) Six Welsh bulbs and four limb clamps			
Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces twisting (AAMI only) Six Welsh bulbs and four limb clamps Fits both snap and tab electrodes with			
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Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor (E06) Printer Resolution	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces twisting (AAMI only) Six Welsh bulbs and four limb clamps Fits both snap and tab electrodes with metal on both sides High-resolution, digital-array printer using			
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Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor (E06) Printer Resolution	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces twisting (AAMI only) Six Welsh bulbs and four limb clamps Fits both snap and tab electrodes with metal on both sides High-resolution, digital-array printer using thermal-sensitive paper; 200dpi (voltage axis) by 500dpi (time axis) at 25mm/sec V.90, K56flex, enhanced V.34, V.32bis, V.32,			
Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor (E06) Printer Resolution Connectivity Modem (H11)	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces twisting (AAMI only) Six Welsh bulbs and four limb clamps Fits both snap and tab electrodes with metal on both sides High-resolution, digital-array printer using thermal-sensitive paper; 200dpi (voltage axis) by 500dpi (time axis) at 25mm/sec V.90, K56flex, enhanced V.34, V.32bis, V.32, V.22bis and below			
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Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor (E06) Printer Resolution Connectivity Modem (H11) Fax (included in H11) LAN	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces twisting (AAMI only) Six Welsh bulbs and four limb clamps Fits both snap and tab electrodes with metal on both sides High-resolution, digital-array printer using thermal-sensitive paper; 200dpi (voltage axis) by 500dpi (time axis) at 25mm/sec V.90, K56flex, enhanced V.34, V.32bis, V.32, V.22bis and below Group 3, Class 1 or 2 fax modem protocol 10/100 Base-TX IEEE 802.3 ethernet via on-board RJ45			
Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor (E06) Printer Resolution Connectivity Modem (H11) Fax (included in H11) LAN Wireless (D21)	<ul> <li>Alligator clips for tab electrodes</li> <li>Flat adaptor for tab electrodes reduces</li> <li>twisting (AAMI only)</li> <li>Six Welsh bulbs and four limb clamps</li> <li>Fits both snap and tab electrodes with metal on both sides</li> <li>High-resolution, digital-array printer using thermal-sensitive paper; 200dpi (voltage axis) by 500dpi (time axis) at 25mm/sec</li> <li>V.90, K56flex, enhanced V.34, V.32bis, V.32, V.22bis and below</li> <li>Group 3, Class 1 or 2 fax modem protocol 10/100 Base-TX IEEE 802.3 ethernet via on-board RJ45</li> <li>802.11(b/g), 802.11(i), WPA, WPA2</li> </ul>			
Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor (E06) Printer Resolution Connectivity Modem (H11) Fax (included in H11) LAN Wireless (D21) Wireless (D22)	<ul> <li>Alligator clips for tab electrodes</li> <li>Flat adaptor for tab electrodes reduces</li> <li>twisting (AAMI only)</li> <li>Six Welsh bulbs and four limb clamps</li> <li>Fits both snap and tab electrodes with metal on both sides</li> <li>High-resolution, digital-array printer using thermal-sensitive paper; 200dpi (voltage axis) by 500dpi (time axis) at 25mm/sec</li> <li>V.90, K56flex, enhanced V.34, V.32bis, V.32, V.22bis and below</li> <li>Group 3, Class 1 or 2 fax modem protocol</li> <li>10/100 Base-TX IEEE 802.3 ethernet via on-board RJ45</li> <li>802.11(b/g), 802.11(i), WPA, WPA2</li> <li>802.11(a/b/g), 802.11(i), WPA, WPA2</li> </ul>			
Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor (E06) Printer Resolution Connectivity Modem (H11) Fax (included in H11) LAN Wireless (D21) Wireless (D22) Wireless credential	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces twisting (AAMI only) Six Welsh bulbs and four limb clamps Fits both snap and tab electrodes with metal on both sides High-resolution, digital-array printer using thermal-sensitive paper; 200dpi (voltage axis) by 500dpi (time axis) at 25mm/sec V.90, K56flex, enhanced V.34, V.32bis, V.32, V.22bis and below Group 3, Class 1 or 2 fax modem protocol 10/100 Base-TX IEEE 802.3 ethernet via on-board RJ45 802.11(b/g), 802.11(i), WPA, WPA2 802.11(a/b/g), 802.11(i), WPA, WPA2			
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Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor (E06) Printer Resolution Connectivity Modem (H11) Fax (included in H11) LAN Wireless (D21) Wireless (D22) Wireless credential Internal storage FIPS certificate	<ul> <li>Alligator clips for tab electrodes</li> <li>Flat adaptor for tab electrodes reduces</li> <li>twisting (AAMI only)</li> <li>Six Welsh bulbs and four limb clamps</li> <li>Fits both snap and tab electrodes with metal on both sides</li> <li>High-resolution, digital-array printer using thermal-sensitive paper; 200dpi (voltage axis) by 500dpi (time axis) at 25mm/sec</li> <li>V.90, K56flex, enhanced V.34, V.32bis, V.32, V.22bis and below</li> <li>Group 3, Class 1 or 2 fax modem protocol</li> <li>10/100 Base-TX IEEE 802.3 ethernet via</li> <li>on-board RJ45</li> <li>802.11(b/g), 802.11(i), WPA, WPA2</li> <li>Cisco compatible CCX v4</li> <li>200 ECGs</li> <li>FIPS 140-2 validated</li> </ul>			
Alligator clips (E01) Wide tab (E02) Welsh bulbs (E04) Snap/Tab adaptor (E06) Printer Resolution Connectivity Modem (H11) Fax (included in H11) LAN Wireless (D21) Wireless (D22) Wireless credential Internal storage	Alligator clips for tab electrodes Flat adaptor for tab electrodes reduces twisting (AAMI only) Six Welsh bulbs and four limb clamps Fits both snap and tab electrodes with metal on both sides High-resolution, digital-array printer using thermal-sensitive paper; 200dpi (voltage axis) by 500dpi (time axis) at 25mm/sec V.90, K56flex, enhanced V.34, V.32bis, V.32, V.22bis and below Group 3, Class 1 or 2 fax modem protocol 10/100 Base-TX IEEE 802.3 ethernet via on-board RJ45 802.11(b/g), 802.11(i), WPA, WPA2 802.11(a/b/g), 802.11(i), WPA, WPA2 Cisco compatible CCX v4 200 ECGs			



 $\ensuremath{\mathsf{3}}$  When networked with select hospital and departmental solutions; refer to supplier specifications

## Technical specifications

Automated data inp	but	Environmental	
Bar code reader (H12) Smart "IC" card reader (H14)	<ul> <li>Flexible field data entry</li> <li>ISO 7816 and EMV 3.1.1</li> <li>Supports SLE 4418/28 and SLE 4443/42</li> </ul>	Operating conditions	<ul> <li>10° to 40°C (50°F to 104°F)</li> <li>10% to 90% relative humidity (noncondensing)</li> <li>Up to 3,000m (10,000ft) altitude 20°C to 50°C (4°F to 122°F)</li> </ul>
Pre-processing filte AC noise Signal processing Presentation filters High pass	50 or 60Hz Artifact Rejection and Baseline Wander	Storage conditions Safety and perform	<ul> <li>-20°C to 50°C (-4°F to 122°F)</li> <li>10% to 90% relative humidity (noncondensing)</li> <li>Up to 4,550m (15,000ft) altitude</li> </ul>
Low pass Presentation filters High pass Low pass Electrical Battery Second battery (H15) Battery capacity	40, 100 and 150Hz - rhythm 0.05 and 0.15Hz 40, 100, and 150Hz Lithium ion Hot swappable (not printing) • Typically 30 ECGs or 30 minutes of	International standards and regulations	<ul> <li>General Requirement for Safety IEC 60601-1: 1988 +A1:1991 +A2:1995</li> <li>Particular Requirement for Safety of Electrocardiographs</li> <li>IEC 60601-2-25: 1993 + A1:1999</li> <li>Particular Requirements for Safety IEC 60601-2-51: 2003</li> <li>US General Requirements for Safety UL</li> </ul>
(per battery) Battery recharge Main power Power consumption Mechanical Dimensions	<ul> <li>continuous rhythm recording on a full charge</li> <li>No fail operation during ECG printing Four hours per battery to full capacity 100-240VAC, 50/60Hz</li> <li>60W max</li> <li>31 x 40 x 11cm (12 x 16 x 4in)</li> </ul>	<ul> <li>2601-1: 2003 1997</li> <li>Diagnostic Electrocardiographic Devic AAMI EC11 1991 (R: 2001)</li> <li>General Requirement for Safety and Electromagnetic Compatibility IEC 60601-1-2:2001</li> <li>CAN/CSA-C22.2 No. 601.1-M90 S1:19 B:1996</li> </ul>	
Weight	9.8kg (21.6lb) includes battery, patient module, lead wires, alligator clips, electrode pack, and paper pack		

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