

Philips Cardiac Workstation 7000 is a clinical breakthrough designed to improve the way you capture, access, view, analyze, store, share, and manage ECGs – to transform diagnostic cardiography.

This ergonomic leap forward streamlines workflow by delivering rich clinical information from systems across your enterprise and beyond to the point of decision. So you can confidently diagnose and treat cardiac patients. No matter where care takes place.

Discover how Philips Cardiac Workstation 7000 can help you transform care – today and as the future unfolds.

Key advantages

- 1-2-3-step operation simplifies life
- Smartphone-like hand gestures speed care delivery
- Color-coded waveforms, lead checks, and preview screens ensure ECG quality
- Innovative ergonomics bring critical ECG information closer to you
- DXL Algorithm delivers interpretation and advanced diagnostic aids for up to 18 leads
- Expanded interoperability capabilities ensure tight integration into your enterprise and beyond

Cardiac Workstation 7000 (860441)

Features

reatures				
Regulatory Clearance		QT Measurements		
EUMDR Clearance / CE Marked	2024	QTc measurements	BazettFridericiaHodges	
FDA 510(k) Clearance	2024		Framingham	
ECG Functions Simultaneous lead	Up to 18 leads	Correction of QT interval & QRS	Rautaharju	
acquisition	up to 18 leads	duration		
ECG reports	3×4, 3×4 1R, 3×4 3R, 3×4 1R, ST maps, 6×2, 12×1 Standard and Cabrera formats, Pan 12 Cabrera		onal Network Communications ⁵	
Standard measurements	• Ten interval, duration, and axis measurements • Configurable QT correction method	Central time management	Time can be manually or automatically synchronized to a Network Time Server	
Rhythm strips	• 30 to 60 sec. • 12, 15, 16, or 18-Lead-lead rhythm strip export (XML)	Orders worklist	 Download of orders worklist from networked server User-configurable rules to retrieve workstation- specific worklists 	
Disclosure	 20 minute history of up to 18 leads Complete ECG report of any selected 10 seconds 		User-configurable drop down lists (e.g., by location) Ad-hoc query for specific orders based upon	
Event marking	 15 independent events can be marked for later review and analysis Event markers appear on ECG reports Note can be added for each event 	multiple user-entered or scanned se		
Timed ECG	Support for pharma stress protocols		Enterprise	
Report storage and transfer	Full fidelity at 1,000Hz of 10 seconds for up to 18 leads	ADT	Supported by DICOM Modality WorklistQuery and retrieval of patient demographic	
Export Data Formats	PDF XML DICOM 12-Lead ECG DICOM General ECG DICOM Encapsulated PDF		information • Based upon user-entered or scanned search criteria (e.g., patient ID, last/first name) • Supported by standard HL7 interface via IntelliBridge Enterprise for hospital systems	
Pace pulse detection	O.02 mVms (e.g., 0.2 mV*0.1ms pulse or 0.1mV*0.2ms pulse) Exceeds proposed standard 5X ¹	Previous ECG reports (requires IntelliSpace ECG)	Automated retrieval and display of multiple previous ECG reports for scrolling and selection for side-by-side comparison with current ECG report	
DXL ECG Algorithm ^{2,3,4}		DICOM ECG report	• DICOM 12-lead ECG	
Interpretive statements	> 600 interpretive statements Integrated pediatric analysis	output (D08)	DICOM General ECG DICOM Encapsulated PDF	
Borderline statement suppression	Three configurable settings	Privacy and Security		
Nomenclature	Aligned with 2007 AHA/ACCF/HRS Recommendations, Part II	Password frameworks	Option 1: Role-basedOption 2: ECG function-based	
Leads used in	Standard 12 leads plus V3R, V4R,V5R, V7, V8,	User authentication	AD/LDAP	
diagnosis	and V9	Data encryption at rest	SHA-256 and AES-128	
Extended measurements	 46 parameters of morphology analysis in each of the 12 leads 	Network access	Initiated by cardiac workstation only	
Reasons	• 21 parameters of rhythm analysis Selectable explanations of all interpretive	Network communications	TLS 1.2 or greater for communications within hospital network	
	statements	Security	• USB port access (on/off)	
STEMI Diagnostic Aid	ds	configuration capabilities behind customer-defined password	HTTP, HTTPSEncryption at rest (on/off)	
Graphical ST presentation	• Two ECG reports with polar ST Maps • Frontal and transverse planes		 Delete archived ECG after transfer (on/off) User Authentication (on/off) 	
Unique right heart statements	9 statements called by right-chest		 Consistent security approach across Cardiac Workstations and PageWriter TC-Series Cardiographs 	
Unique posterior MI 16 statements called by posterior leads statements		Device Management	J .	
Age and gender criteria			Centralized Management of fleet configuration and software revisions.	
STEMI-CA (Culprit Artery)	Criteria that suggest any of four probable sites of the occluded coronary artery Based upon 2009 AHA/ACCF/HRS Recommendations, Part VI		 In-scope solutions: PageWriter TC20/TC30/ TC35/TC50/TC70, SureSigns VS3/VS4, Efficia CM10/CM12, Efficia CM100/CM120/CM150, EarlyVue VS30 	
Critical Values	Highlights four conditions requiring immediate clinical attention		Cardiac Workstation verified to Dashboard A.02.02, planned for release Q4 2024.	

Signal Quality Indicators

Leads-off advisory	Anatomical lead map displays the location and label of loose or disconnected leads/ electrodes
Lead color	Four colors to indicate quality of individual leads
LeadCheck	Lead-placement software detects 20 different lead reversals
Heart rate	Continuous display of patient heart rate
Print preview	Full screen preview of complete 18-lead report prior to printing and/or export

User Training and Self-help

Training mode	Integrated waveform simulationIn-app lead placement tutorial
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UI Projection via HDMI

	• In-app lead place	ment tutorial
User Interface		
Touchscreen	1-2-3 operationContext-sensitiveUltra-wide viewiWet finger, glove	ng angle
Gesture & Navigation	report list, Prior	-in/zoom-out, such as ECG
Screen adjustability	Option A01: • Display Tilt: Range of Arm Tilt: Range of	
	Option A02: • Display Tilt: Range • Arm Tilt: Range for Swivel: Range from total)	
Digital keyboard	37 unique keyboa supported	rd locales / character sets
Physical keyboard	Standard off-the-s support via USB p	shelf keyboard and mouse orts
Side-by-side viewing	UI left: Current ECG preview	UI right: Previous ECG(s) preview
	• UI left: Event list	 UI right: Event ECG preview
	• UI left: Archive list	 UI right: All archived ECGs preview
	• UI left: Worklist	• UI right: Patient info
	• UI background: Waveforms	• UI foreground: Lead map

HDMI output to large display for teaching / training

Trolleys (860352, 860353)

Height-adjustment	• 860352: Fixed height • 860353: Adjustable height (25 cm)
Fleet coverage	Above trolleys also compatible with: • Cardiac Workstation 5000 • PageWriter TC70 • PageWriter TC50 • PageWriter TC35
Wheels	All 4 wheels lock and swivelAnti-static conductive caster
Desktop	Open desktop workspace
Storage	 Standard storage for 400 extra ECG paper sheets Standard storage for cleaning wipes/gloves/ electrode gel/gauze, etc Optional concealed drawer Optional closable waste bin Optional wire basket Optional hanging leadwire holder

Technical Specifications

Display

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Size	High-resolution, multi-touch capacitive screen Option A01: 15.6 in Option A02: 18.5 in
Resolution	1920 (RGB) x 1080 TFT-LCD Module
Luminance	Option A01: 360 cd/m2 Option A02: 380 cd/m2
Colors	16,700,000
Touchscreen	 Projected capacitive touch panel (PCAP T/P) attached Optically bonded

Patient Connections

Integrated lead set	• Defib-protected ECG acquisition provides 0.13 µV resolution
Long lead set (H23)	Enable greater distances between cardiograph and patient connections

End Connectors (Adaptors)

Welsh bulbs (E04)	 Six Welsh bulbs and four limb clamps
Snap/Tab adaptor (E06)	• Fits both snap and tab electrodes with metal on both sides

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

Connectivity

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LAN	10/100 Base-TX IEEE 802.3 ethernet via onboard RJ45
Wireless (D24)	802.11 b/a/g/n/ac (WiFi 5)
Wireless credential (D24)	WPA3 (Personal), WPA2 (Enterprise)
FIPS	Communication supported by FIPS 140-2 certified encryption algorithm
Archive / Internal storage	1,000 ECGs
External storage	1,000 ECGs via USB device

Automated Data Input

1D Bar code reader (H12)	Reads Code 39 SymbologyReads up to 80 characters
2D Barcode reader (H17)	High scan speedMotion toleranceCurved surfaces

Configurable Filters

AC noise	50 or 60 Hz
Signal processing	Artifact rejection and baseline wander

Presentation Filters – 10-sec and Rhythm Reports

High pass	0.02, 0.05, and 0.15Hz
Low pass	40, 100, 150 and 300Hz

Electrical

Battery	Lithium ion
Battery capacity ⁶	Option A01: > 8 hrs continuous operation without printing
	> 75 ECG reports (6min run, 1-page print, 4min standby)
	> 2.5 hrs continuous rhythm printing
	Option A02: > 6.5 hrs continuous operation without printing
	> 70 ECG reports (6min run, 1-page print, 4min standby)
	> 2 hrs continuous rhythm printing
Battery recharge	4 hrs from 8% to 90% capacity for 2 batteries
Main power	100-240VAC, 50/60Hz
Power consumption	60W max

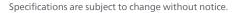
- 1. New standards for ECG equipment. *Journal of Electrocardiology* 57 (2019) S1–S4.
 2. AHA/ACCF/HRS Recommendations for the Standardization and Interpretation of the Electrocardiogram, Part II: Electrocardiography Diagnostic Statement List. J Am Coll Cardiology, 2007; 49:1128-135.

 3. Fourth Universal Definition of Myocardial Infarction. *Circulation* 2018; 138 (2): pg e618-e651.
- AHA/ACCF/HRS Recommendations for the Standardization and Interpretation of the Electrocardiogram, Part VI: Acute Ischemia/Infarction. *Circulation*. 2009; 119:e262-e270. When networked with select hospital and departmental solutions, refer to supplier

- 6. Performance can vary in different environmental conditions.7. All trademarks, logos, and brand names referenced in this documentation are the property of their respective owners.

Shanghai International Holding Corp. GmbH (Europe) ECIREP Eiffestrasse 80, 20537 Hamburg, Germany





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Statistics	 Current status
	 Voltage
	• Expected max error (%) of charge calculation
	 Remaining capacity in mAh
	 Predicted capacity when fully charged
	 Current charge and state of health %
	 Charge current: value while charging
	 Discharge current: value while discharging
	Cycle count: number of full charge and
	discharge cycles
	• Temperature
	 Battery unique ID, supplier information, device name, DOM, and SN

Mechanical

Dimensions	 Option A01: Open: < 410mm (L) x 335mm (W) x 470mm (H) Closed: < 410mm (L) x 390mm (W) x 175mm (H)
	 Option A02: Open: < 480mm (L) x 335mm (W) x 505mm (H) Closed: < 480mm (L) x 430mm (W) x 175mm (H)
Weight	Option A01: < 9 kg (excludes battery, lead wires, accessories)
	Option A02: < 11 kg (excludes battery, lead wires, accessories)

Environmental	
Operating conditions	 10° to 40°C (50°F to 104°F) 10% to 90% relative humidity (non-condensing) Up to 3,048 m (10,000 ft) altitude
Storage conditions	 -20°C to 50°C (-4°F to 122°F) 10% to 90% relative humidity (non-condensing) Up to 4,572 m (15,000 ft) altitude

Cleaning and Disinfecting ⁷		
Approved solutions	Generic cleaning solutions • Ethanol (ethyl alcohol) 70% (v/v) • Isopropyl alcohol wipes (consisting of 70% solution) • Mild soap and water	
	Branded cleaning solutions • Metrex Caviwipes • Dr. Schumacher Cleanisept Wipes • Clinell Peracetic Acid Wipes • Gama Healthcare Clinell Universal Range • PDI Easy Screen Cleaning • PDI Sani-Cloth AF3	

Safety and Performance

International standards and	 General Requirements for Safety IEC 60601-1: 2005+A1: 2012
regulations	 Particular Req. for Safety of Electrocardiographs IEC 60601-2-25 2011 Edition 2.0 Electromagnetic Compatibility IEC60601-1-2 2014

• PDI Super Sani-Cloth®

