

# Eclipse Premier ECG

High-performance, network communication for real time data sharing and accurate patient identification

## Resting ECG System

*Receiving timely, high-quality and accurate ECG results is critical for patient care. The Quinton® Eclipse™ Premier allows you to receive orders, instantly transmit test results and make a diagnosis quicker with its superior wired and wireless Network data sharing capabilities. Workload is further streamlined with easy-to-use barcode capabilities that ensure patient identification and documentation is consistent, accurate and reliable.*



### System Design Helps Improve Workflow

The Eclipse Premier hospital-grade interpretive electrocardiograph provides simultaneous 12-lead acquisition. The system displays 3, 4, or 6 channels of ECG in automatic mode or manual mode, and 3, 6, or 12 channels during rhythm recording on an easy-to-read, adjustable 12-lead color active matrix display.

It uses industry-standard wired Ethernet and wireless 802.11b and g. It also offers wristband barcode scanning for accurate patient identification.

### Proven Performance and Quality

With a host of unique features, the Eclipse Premier produces superior quality ECGs, saving time for more patient care.

- Harmonic filter eliminates baseline artifact
- Choice of filter settings reduces muscle artifact and ambient noise
- AccuPrint quality assurance monitor restricts ECG printout when lead artifact is present
- Pacemaker algorithm accommodates patients with various pacemakers
- Beat-to-beat, R-R intervals may be printed on reports
- Choice of QTc calculation formulas, includes Hodges, Bazett, Framingham and Fridericia
- Password protection for accessing patient directory
- Compatible with FAA transmission requirements

### Superior ECG Analysis and Interpretation

The Quinton Eclipse Premier ECG utilizes the proven University of Glasgow algorithm, (formerly known as the Glasgow Royal Infirmary algorithm) for interpretation, providing a silent second opinion.

Unlike some competitive products, which limit algorithm criteria to age, the University of Glasgow algorithm, developed in the 1970s and continuously updated, bases its analysis on five clinically significant criteria: gender, age, race, medication and classification.

This is critical because ECG results for patients with different demographic profiles and medical conditions can vary greatly.

### Practical Design for Ease of Use

Every feature of the Eclipse Premier streamlines workflow and provides practical, reliable functionality. These time-saving features include:

- Color active matrix display with 90° tilt/swivel screen
- One-touch STAT ECGs and other keyboard shortcuts
- High resolution thermal printer with 8.5" x 11" Z-fold paper
- Intuitive menu selections and directory storage of up to 100 ECGs
- Operates on AC power or long-life NiCad battery (included)
- Compact flash card slot enables software upgrades at an affordable price
- Compatible with SCP-ECG management systems

### Features

- Simultaneous 12-lead acquisition
- 12-lead preview on color active matrix display
- Automatic, manual or rhythm recording modes
- University of Glasgow algorithm provides interpretation based on five criteria, including age, gender, race, medication and classification
- Stores up to 100 ECGs
- Full-size, waterproof keyboard and hospital grade cart
- Wired Ethernet, optional
- Wireless 802.11b and g with PEAP and WPA support, optional
- Barcode Scanner, optional

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## Integrates with Pyramis® Data Management System

An optional communications package enables integration with the Pyramis Data Management Systems. Download orders and upload test results via wired and wireless Ethernet, modem or serial connection. Pyramis provides online storage, retrieval, editing, confirmation and distribution of 12-lead ECGs as well as 12-leads from

the bedside, stress and Holter reports. Pyramis centralizes diagnostic cardiology data and enables hospital-wide and remote access from the office or home.

## Warranty and Service Offerings Protect Your Investment

With warranty and service offerings, your investment is protected from unforeseen service costs. Our toll-free technical support is available to answer questions. Onsite parts and labor are also available. Contact your representative to select a program that meets your needs.

## TECHNICAL SPECIFICATIONS

Dimensions	17.125" x 25.625" x 49.5" (435 mm x 651 mm x 1257 mm) includes cart	
Weight	87 lbs. (39.5 kg) includes cart	
Display	640 x 480 active-matrix, color, LCD	
Keyboard	Full alphanumeric keypad	
Input/output	Compact flash interface; Serial RS-232 (9-pin D); Telephone line interface (RJ11C)	
Data storage	100 patient records	
Network connection	Wired: 10/100 MBPS Ethernet via RJ45; Wireless: Compatible with 802.11b or 802.11g wireless networks	
Barcode scanner	Compatible with barcodes in the Code 128 barcode format. Configurable to users specific barcode schema.	
Power requirements	AC operation: 115/230 V AC $\pm$ 10%, 0.80/0.40 A, 50/60 Hz; Fuses for: 115 V, 1.0 A, 250 V type T; for 230 V, 0.5 A 250 V type T; Nominal battery operation: 16.8 V NiCd rechargeable battery pack; Duration: 200 minutes w/o printing or 100 minutes w/ continuous printing. Power Conserve feature shuts down after 15 minutes of no use.	
Printout	Printout device: 216 mm thermal dot array; Paper dimensions: 8.5" x 11" (US letter) or 210 mm x 300 mm (A4); Paper type: Thermal-sensitive; Chart speeds: 10, 25, 50 mm/sec.; Gain: 5, 10, 20 mm/mV; Printout formats: 3-, 4-, 6- or 12-channel; additional rhythm formats	
Acquisition	Lead selection: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6; supports Frank X, Y, Z and Nehb D, A, J; Modes: Automatic, rhythm or manual; Frequency response: Meets or exceeds ANSI/AAMI EC11-1991 standard; Input impedance: Meets or exceeds ANSI/AAMI EC11-1991 standard; Electrode offset tolerance: +/-300 mV; A/D conversion: 10 $\mu$ V LSB; Artifact filter response: 40 Hz, -3 db; Data resolution: 500 samples/second, 5 $\mu$ V; Interpretation: Diagnosis, measurements, reason statements	
Environmental specifications	Operating temperature: 50°F to 104°F (10°C to 40°C); Relative humidity: 25% to 95% non-condensing; Atmospheric pressure: 700 hPa to 1060 hPa; Storage Temperature: -4°F to 131°F (-20°C to 55°C); Relative humidity: 25% to 95% non-condensing; Atmospheric pressure: 700 hPa to 1060 hPa	
Conforms to standards	CSA C22.2 no. 601-1-M90 EN 60601-1-2 EN 60601-1	EN 60601-2-25 UL 60601-1
Safety	Leakage current: Patient <10 $\mu$ A, chassis <100 $\mu$ A; Defibrillation protection: To 5000 V, 360 J	
Warranty	Contact your sales representative	

## ORDERING INFORMATION

### Standard U.S. Configurations

**E10-6AE17 Eclipse Premier, English, 115V, SCP, AHA cable, standard paper, disposable electrodes and clips**

E10-6	X	X	XX	
A				115V
C				230V
E				SCP only
G				SCP and modem
			17	AHA replaceable lead cable, standard paper, disposable electrodes & clips
			18	IEC replaceable lead cable, standard paper, disposable electrodes & clips
			19	AHA replaceable lead cable, A4 paper, disposable electrodes & clips
			20	IEC replaceable lead cable, A4 paper, disposable electrodes & clips

**040-1482-01 Eclipse Premier Wireless 802.11b and 802.11g ethernet kit**

**040-1483-01 Eclipse Premier Barcode kit**

Contact Customer Service for further assistance

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