

The QUINTON® Q-Tel® RMS Rehabilitation Management System 3.1

Streamlined workflow and better reports mean more time with patients

Primary Users

Cardiac and pulmonary rehabilitation centers

Primary Benefits

Ease of Use. The Windows-based interface uses familiar drag-and-drop functions, consistent pull-down menus, auto-populating and auto-indexing data fields.

Connectivity. The system links easily to your PACS/HIS/EMR system using industry standard HL7, DICOM, XML, or PDF protocols so you can download patient demographic information and upload session data.

Accuracy. The Quinton Q-TEL RMS captures and displays ECG signals with diagnostic accuracy.

Clarity. Simple left-to-right icons match the typical workflow for most rehab programs, and each program module is accessible with just one click.

Reporting. The Q-Tel RMS 3.1 provides all the reports you need, including Patient Intake Assessment, Patient Care Plan, a Customizable Patient Query Report, and Customized Patient Outcomes Graphs.

Reliability. The Q-Tel RMS 3.1 is tested to the highest standards; many of our older systems with more than 10 years in service are still going strong.

Support. We provide excellent support and service including a 13-month on-site warranty, 2 days of in-service training, free phone tech support, remote support, and competitively priced service contracts.



The Q-Tel RMS 3.1 seamlessly captures and manages patient and program data

Cardiac and pulmonary rehab centers trust the Q-Tel RMS 3.1 to support the crucial work of patient recovery. The system captures and manages essential patient data while you focus on your patients to manage important recovery issues. What could be simpler?

- + Advanced, dependable, and diagnostic-quality telemetry ensures the accuracy of the ECG data while built-in technical, clinical, and life-threatening alarms let you spend less time watching monitors and more time working with patients.
- + Q-Tel lets you view and document changes without ever stopping the patient's exercise routine.
- + The intuitive user interface offers familiar Windows menus and screen functions, plus icons that match the typical workflow used in cardiac rehab. Documentation made simple!
- + The Q-Tel RMS 3.1 links to hospital information systems using HL7 or DICOM based standards allowing you to download patient information and upload session data. This reduces errors and saves time by eliminating redundant data entry.

Powerful new software makes it easy to create required reports

The Q-Tel RMS 3.1 puts all your information right at your fingertips. You can generate reports on the progress of each patient – for an individual session, or across multiple sessions.

- + The system organizes patient data in AACVPR recommended areas of assessment (clinical, functional, behavioral, social, and services) into intake reports that can be printed or exported as PDFs.
- + A Patient Care Plan captures and reports patient goals, interventions, and progress towards meeting those goals in the key areas recommended by AACVPR.
- + Highly customizable patient query report makes it easy to present accreditation data on attendance, enrollment, provider lists, and more.

The Quinton Q-Tel RMS 3.1 is backed by industry-leading training, service, and support.

- + We offer two-day in-service training support.
- + 92 percent of our customers rated our training as 'very beneficial' and would recommend Cardiac Science to a friend.



The QUINTON® Q-Tel RMS Rehabilitation Management System 3.1

TECHNICAL SPECIFICATIONS		
SYSTEM		
ECG PERFORMANCE		
Applicable standards	AAMI EC-11-1991 for diagnostic ECG (The Q-Tel RMS system meets or exceeds the following performance requirements of AAMI EC-11: gain accuracy, frequency response, CMRR, system noise, dynamic range, and input impedance)	
Display and analysis filter	Muscle artifact, baseline wander and 50/60 Hz line. User can turn all filters on or off	
ECG DISPLAY		
Content	4, 8 and 12 channel ECG display and alphanumeric data I/O	
Display	3.5 - 8 seconds, depending upon number of channels	
Data	ECG traces, heart rate, target heart rate, blood pressure, patient demographics and risk profiles, workload, METs, RPE, patient weight, and other user selectable parameters	
Gain	2.5, 5, 10, 20, 40 mm/mV	
Lead groups	4 and 5 wire lead sets, supporting the standard limb set, limb plus one chest lead, and the modified chest lead	
ECG ANALYSIS		
Heart rate	Moving median estimate based upon R-R intervals	
Alarms	Includes 7 programmable technical alarms and up to 13 programmable arrhythmia alarms with automatic strip print or automatic strip record	
POWER REQUIREMENTS	100/120 VAC 50/60 Hz nominal 2.5 A; 200/240 VAC 50/60 Hz nominal 1.3 A	
ENVIRONMENTAL		
Operating temperature	50°F to 90°F (10°C to 32°C)	
Operating relative humidity	20% to 80% non-condensing	
Storage temperature	32°F to 113°F (0°C to 45°C)	
Storage relative humidity	10% to 90% with condensation	
Ventilation clearances	Workstation: 6 in (min) behind; Laser printer: 3 in (min) on each side	
HARDWARE		
TOWER	MASTER TOWER	SLAVE TOWER AND TURNKEY WORKSTATION
CPU	Intel compatible PC platform, P4 3.4 GHz processor (min)	Intel compatible PC platform, P4 3.4 GHz processor (min)
RAM	1 GB (min)	512 MB (min)
Hard drive	2x80 GB SATA (min)	80 GB SATA (min)
DISPLAY	Color LCD, 1280 x 1024; 19 in or 21 in (483 mm or 533 mm)	
KEYBOARD AND MOUSE	Keyboard: main 101 keys, QWERTY layout; Mouse: optical with magnifying function	
X12+ TRANSMITTER		
CHANNEL	Easily select any 1 of 64 channels using the function keys	
DISPLAY	1.25 in x 0.62 in (3.2 cm x 1.6 cm) LCD display shows live ECG, lead fail, lead quality, power ON/OFF, low battery	
LEADS CONNECTOR	Single-block, 4 or 5 lead	
FUNCTION KEYS	Up/Right, Down and Enter keys for ON, menu navigation and CALL	
FREQUENCY RANGE	WMTS 608 MHz (608.48 MHz to 613.52 MHz) or outside USA: 2400 MHz (2400.96 MHz to 2482.56 MHz)	
PATIENT ISOLATION	Positive defibrillation protection in compliance with AAMI standards and IEC 601-2-25	
PATIENT CALL BUTTON	Depression of any button while monitoring inserts the call signal into the transmitted data stream	
RADIATED POWER	Does not exceed 0.5 mW	
DIMENSIONS (H x D x W)	3.5 in x .98 in x 2.5 in (9.1 cm x 2.5 cm x 6.4 cm)	
WEIGHT	With battery: 4.8 oz (136 g); Without battery: 4.0 oz (114 g)	
BATTERY		
Type	1 AA alkaline	
Duration	40 hours (typical)	
DATA STREAM CONTENT	Encoded lead potentials, battery voltage, lead potency or impedance	
SAMPLE RATE	500 samples/second/channel	
PACEMAKER SPIKE DETECTION	10,000 samples/second/channel at the transmitter. Detected pacemaker spikes are transmitted as part of the encoded data stream and are displayed in all acquired leads.	
ENVIRONMENTAL	Water resistant, classified according to IEC-601-1 and IEC-601-2-25 as ordinary equipment	
RECEIVER		
SENSITIVITY	-100 dBm	
ANTENNA	Dual passive antenna system. Open field range: 100+ meters. Optional powered antenna system available to extend coverage	
CHANNELS	64 channels per receiver for 608 MHz and 2400 MHz systems	
RECEIVER BOARD	Available as 4 or 8 independent receivers per receiver board. Up to 12 receivers per tower.	
LEADS	4 or 5 leads of diagnostic ECG data per receiver	
BANDWIDTH	0.5 Hz to 100 Hz (min). The ECG bandwidth: determined by transmitter and is diagnostic according to AAMI-EC 11-1991	

PERIPHERALS	
CHART RECORDER Recording technique Printed data Speed Paper Feed	High-resolution thermal dot array, temperature controlled thermal print head One and two channel ECG waveforms and alphanumeric printing 25 mm/sec Blank or pre-gridded thermal, ECG grid, 5 cm (2 in) wide rolls Continuous from roll
PRINTER Laser printer Paper dimensions Resolution	High volume HP4250N or Low volume HP2015dn 8.5 in x 11 in (US letter) or 210 mm x 300 mm (A4) 600 dpi (minimum)
NETWORK SWITCH Type Interface Ports MAC address table Dimensions (H x D x W) Weight	10/100 (10BASE-T/100BASE-TX) RJ-45, 100 ohm, UTP cable 8 RJ-45 ports, twisted pair, fixed crossover 2000 entries 1.26 in x 3.34 in x 6.93 in (3.2 cm x 8.5 cm x 17.6 cm) 0.794 lb (0.36 kg)
EXTERNAL HARD DRIVE Type Speed Media Format/Type Capacity	For backups USB 2.0 7200 RPM NTFS 320 GB (min)
CD-RW DRIVE Type Speed Media/media capacity	For report archive 52/32/52 (min) 52X (CD-R burn)/32X (CD-RW burn)/52X (CD-ROM read) (mmin) CD-R (74 min or 80 min)
POCKET ASSISTANT Model Dimensions (H x D x W) Weight Display Processor Memory Operating system Battery AC adapter Wireless connectivity Range	HP iPAQ 2490 or HP iPAQ 2790 4.8 in x .59 in x 3.0 in (12.2 cm x 1.5 cm x 7.7 cm) 4.8 oz (136 g) (with battery and wireless antenna) 3.5 in (90 mm) QVGA TFT color 16-bit, touch-sensitive transfective display with 240 x 320 at 65,536 colors resolution Intel XScale PXA270 at up to 624 MHz RAM: 64 MB SDRAM; ROM: 64 MB Intel StrataFlash ROM Microsoft Windows Mobile 2003 or WM5 Main: 950-mAh lithium-ion removable rechargeable; Backup: 20-mAh rechargeable nickel metal hydride button cell; Extended: 1800 mAh lithium-ion removable rechargeable 100/240 VAC/50/60 Hz Host interface: CF+; Operating frequencies: 2.4 GHz to 2.497 GHz; Data rate: 1, 2, 5.5, 11 Mbps 802.11b Up to 120 ft (36.6 m) at 11 Mbps
SOFTWARE	
REPORTS Outcomes Administrative	11 standard outcomes reports covering individual session results, progressreports, and full disclosure 11 standard reports including daily billing, physician list, patient demographics, and statistical summaries.
OFF-THE-SHELF	Windows XP, Microsoft Office Basic 2007, Microsoft SQL 2000 (MSDE), Adobe Acrobat Reader 6.0 <i>Cardiac Science recommends installing all Microsoft critical and security updates on an ongoing basis to protect the Q-Tel RMS system from Internet based attacks. Additionally, a commercially available anti-virus software package should be used with Q-Tel RMS. Virus scanning should not be performed on the system when using the Q-Tel RMS application. In all cases, Q-Tel RMS application files must be excluded from the virus scan. Cardiac Science does not recommend installing any other unqualified software on your Q-Tel RMS system.</i>
CARDIAC SCIENCE CORP.	Q-Tel RMS software, Q-Progress software, Purge/Archive utility, Backup/Restore utility
NETWORKING	Microsoft compatible networking for file storage, distribution, and e-mail (Novel networks are not supported)
COMMUNICATION PROTOCOL/ FORMAT	TCP/IP; HL7, DICOM, XML, PDF
SERVICE	Cardiac Science field service representative or qualified technician only
APPROVED PERIPHERALS	
LCD	19 in (483 mm) Viewsonic VP191 or VP960; 21 in (533 mm) Viewsonic VP2130
PRINTER	Low volume HP2015dn; High volume HP4250N
POCKET ASSISTANT (PDA)	HP iPAQ HX2490 with extended battery; HP iPAQ HX2790 with extended battery; Dell X30 with extended battery; Dell X51 with extended battery
EXTERNAL MODEM	V92/56K Multitech - 5634ZBA-USB-V92
EXTERNAL HARD DISK DRIVE	320 GB Iomega - 33653
SOFTWARE ONLY WORKSTATION	
MINIMUM SPECIFICATIONS	Processor: Intel Pentium 4, clock speed 2.4 GHz or faster; System memory: 512 MB (min); USB Ports: 1 for optional USB printer; Parallel port: 1 for HASP software access key; CD drive: 8X or faster; Hard drive: 20 GB (min); Video: 16 MB (min); capable of 16 bit high-color, 1280 x 1024 resolution; Operating system: Windows 2000 Professional, Service Pack 4, or Windows XP Professional, Service Pack 2

The QUINTON® CR60 Treadmill

A durable, dependable treadmill that keeps pace with your cardiac rehab needs

The CR60 treadmill provides a comfortable experience

Clinicians around the world rely on our treadmills. Your patients will appreciate the solid and secure feeling of the CR60 while you gather the metrics you need.

- + Our TripleFlex feature combines two levels of shock-absorbing mounts with a flexible frame to provide ideal cushioning for walkers and runners.
- + The control panel is easy to use and designed specifically for cardiac rehabilitation centers – obtain METs and calorie counts at a glance, and pre-set time limits and top speed.
- + During the cool-down cycle, the treadmill gradually reduces speed and lowers the grade to zero.

The Ultradrive™ system is the power behind the treadmill

Ultradrive is a digitally-controlled AC-drive system that delivers greater performance, improved accuracy, and increased reliability.

- + The CR60 delivers high torque for accurate speed control – patients enjoy a natural walking/running sensation with no lag when the foot strikes the belt – even at lower speeds.
- + The machine starts out gently and then slowly increases speed in a smooth manner for patient safety and confidence.

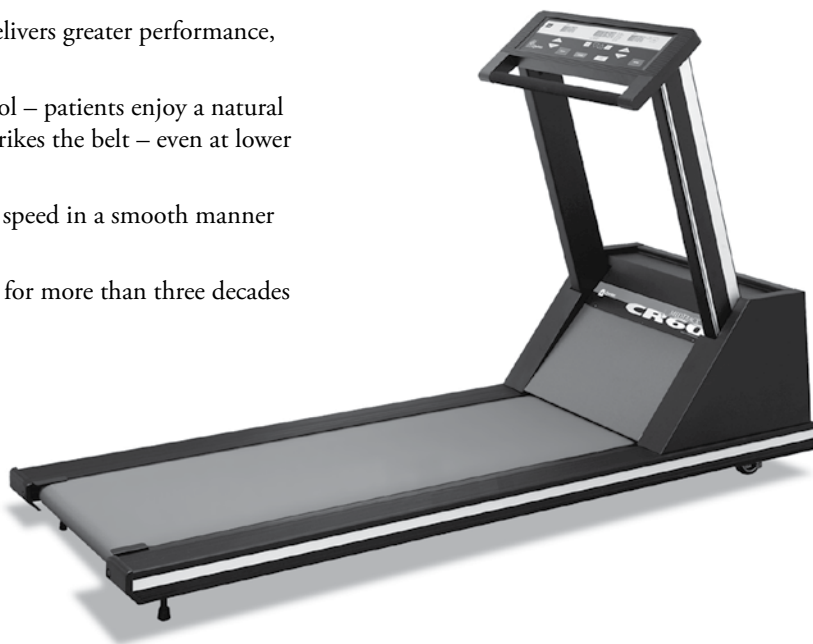
Quinton treadmills have been the industry's gold standard for more than three decades and are among the best selling in the world.

Primary Benefits

Comfort. TripleFlex™ shock absorption provides ideal cushioning for walkers and runners up to 400 lb (181 kg).

Control. The Ultradrive™ system provides exceptionally smooth power and accuracy even at the slowest speeds and the heaviest weights.

Friendly. The control panel is easy to use, and the whisper-quiet Ultradrive provides a nice, slow start.



 **The Physician's Resource**
for Medical Equipment, Inc.

Sales and Service of Cardiology and Surgical Equipment and Supplies