Q-Tel[®] RMS[®] Rehabilitation Management System 4.0

PRIMARY BENEFITS:

- Connectivity. The system links easily to your EHR system using the industry standard HL7 protocol so you can download patient demographic information and upload session data as PDF reports.
- 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**. Q-Tel RMS provides all the reports you need, including Individual Treatment Plan (ITP), a Customizable Patient Query Report, and Customized Patient Outcomes Graphs.
- **Reliability.** Q-Tel RMS 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, remote support, and competitively priced service contracts.

S-MARK				-18.00
	Decisions	VID: 0050835	2m	
nak al Plengelas (plotins) : Plenenar Platenar	- the Electra Data approach P 316 (1986) Mate	Sc Tance 2.0 8.1 8: 18520 0 Sell		
er Alemane		SCIRE PAGEO 2 & SU 1988 8 SHE NG Sami 77 83 TEU 19682 5 SCR		
I II I I II	Bringsten Hany			Treach
	NWWWWW	mmmm	mmm	mmmmm
6:43 181	monnin	minnin	mmmm	NNNNNN
BE CALL HAR PAR	Ancers Chase			Leg Ergsma
	have also all	-hand-	dand you	hand of the second
7:15 80				
WHele	Brdeman Color			Arm Ergame
		lk	-d-l-d-	lelelele
160.98				
7:30 80	679654 (pdfs on, 59/07)			5 mm/m/
15484	nhahhhhh	hhhhh	uhihihihi	nhhhhh
4:46 120	013474			5 mm/m/r
				- P & r

Q-TEL RMS SEAMLESSLY CAPTURES AND MANAGES PATIENT AND PROGRAM DATA

Cardiac and pulmonary rehab centers trust the Quinton Q-Tel RMS to support the crucial work of patient recovery. The system captures and manages essential patient data while you focus on your patient.

- 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 RMS captures and displays multi-lead, real-time ECG signals with diagnostic accuracy and programmable arrhythmia alarms.
- Q-Tel RMS is equipped to capture and report Chronic Heart Failure, Cardiac, and Pulmonary Rehabilitation prevention program data elements.
- Q-Tel RMS lets you view and document changes without ever stopping the patient's exercise routine.
- Q-Tel RMS links to hospital information systems using HL7 and PDF-based standards allowing you to download patient information and upload session data. This reduces errors and saves time by eliminating redundant data entry.

ENHANCED WORKFLOW REDUCES UNNECESSARY STEPS SO YOU CAN FOCUS ON PATIENT CARE

Q-Tel RMS 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.

- Q-Tel RMS can generate appropriate reports showing the progress of each patient.
- The Individual Treatment Plan (ITP) captures and reports patient goals, interventions, and progress towards meeting those goals in the key areas recommended by AACVPR, with simplified collection and transfer of data to the registry.
- Highly customizable patient query reports make it easy to present accreditation data on attendance, enrollment, provider lists, and more to support individual facility requirements.
- Customer specific in-service and training support is offered at no charge.
- On-site service repairs and support are provided by our experienced field service engineers.



Q-Tel RMS REHABILITATION MANAGEMENT SYSTEM 4.0

FEATURE				
FEATURE	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. The system does not offer a calibration pulse and prints exclusively at 25 mm/s.)			
	DISPLAY AND ANALYSIS FILTER — Muscle arti User can turn all filters on or off	fact, baseline wander and 50/60 Hz line.		
	BANDWIDTH — 0.05 - 150 Hz, compliant with AAMI EC11-1991 for diagnostic electrocardiographic devices			
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	100-240 VAC 50/60 Hz 400 W (Master/slave tov	100-240 VAC 50/60 Hz 400 W (Master/slave tower)		
ENVIRONMENTAL	OPERATING TEMPERATURE – 59°F to 90°F (15°C to 32°C) OPERATING RELATIVE HUMIDITY – 30% to 80% non-condensing STORAGE TEMPERATURE – 40°F to 113°F (-40°C to 45°C) STORAGE RELATIVE HUMIDITY – 20% to 80% with condensation VENTILATION CLEARANCES – Workstation: 6 in (min) behind; Laser printer: 3 in (min) on each side			
HARDWARE				
	MASTER AND SLAVE TOWERS CPU – Intel [®] -compatible PC platform, P4 3.2 GHz processor (min) RAM – 4 GB (min) HARD DRIVE – 500 GB SATA (min)	TURNKEY WORKSTATION CPU – Intel compatible PC platform, P4 1.5 GHz processor (min) RAM – 2 GB (min) HARD DRIVE – 20 GB SATA (min)		
DISPLAY	Color LCD, 1920 x 1200; 24 in (61 cm)			
KEYBOARD AND MOUSE	USB keyboard and optical mouse			
X12+ TRANSMITTER				
CHANNEL	Easily programmable to 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)			
DEFIBRILLATION PROTECTION	Protected against defibrillation in compliance with AAMI standards and IEC 60601-2-25			
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 — 24 hours (typical)			
DATA STREAM CONTENT	Encoded lead potentials, battery voltage, lead po	tency 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	Classified according to IEC 60601-1 and IEC-606	501-2-25 as ordinary equipment		

Q-Tel RMS REHABILITATION MANAGEMENT SYSTEM 4.0

FEATURE

SPECIFICATIONS*

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
PRECEIVER 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
PERIPHERALS	
LASER PRINTER	Resolution: 600 dpi (min); Paper Dimensions: 8.5 x 11 in (US letter) or 210 x 300 mm (A4); Monthly Duty Cycle – 3,000 to 12,000 pages; Dimensions: 16.3 x 16.9 x 15.7 in (415 x 428 x 398 cm) at 52.1 lbs (23.7 kgs)
NETWORK SWITCH	Type: 10/100TX; Ports: 8 RJ-45 ports; Dimensions: 1.4 x 9.8 x 4.6 in (3.6 x 24.9 x 11.6 cm) at 2.0 lbs (0.9 kgs)
NETWORK VPN (for hospital network connection)	Security Features: Firewall, AES 128-bit encryption, VPN Tunnel; Dimensions: 6.1 x 7.5 x 1.25 in (15.5 x 19.0 x 3.2 cm)
EXTERNAL HARD DRIVE	Capacity: 500 GB (min); Type: USB 2.0
POWER SUPPLIES (for towers)	UPS: 1000VA/600W 120VAC (min); Isolation Transformer: 120 Volts, required in the patient vicinity
CHART RECORDER (optional)	Recording Technique: High-resolution thermal dot array, temperature controlled thermal print head; Printed Data: One and two-channel ECG waveform and alphanumeric printing; Speed: 25 mm/sec; Paper: Blank or pre-gridded thermal, ECG grid, 5 cm (2 in) wide rolls; Feed: Continuous from roll
SOFTWARE	
REPORTS	OUTCOMES – 11 standard outcomes reports covering individual session results, progress reports, and full disclosure ADMINISTRATIVE – 11 standard reports including daily billing, physician list, patient demographics, and statistical summaries
THIRD-PARTY SOFTWARE	Windows® 7 Professional SP1, Microsoft® Excel 2010, Microsoft SQL Express 2008, Adobe® Acrobat® Reader 9
	Mortara 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. Mortara does not recommend installing any other unqualified software on your Q-Tel RMS system.
MORTARA SOFTWARE	Q-Tel RMS software, Q-Progress software, Purge/Archive utility, Backup/Restore utility
MORTARA SOFTWARE NETWORKING	Q- Iel RMS software, Q-Progress software, Purge/Archive utility, Backup/Restore utility TCP/IP compatible networking for file storage, distribution, and printing. Q-Tel Towers run on a private Q-Tel Workgrou
	TCP/IP compatible networking for file storage, distribution, and printing. Q-Tel Towers run on a private Q-Tel Workgrou

WORKSTATION SOFTWARE MINIMUM SPECIFICATIONS

Processor: equivalent to Intel Pentium 4, 1.5 GHz or faster; System memory: 2 GB; CD or DVD drive: 8X or faster; Hard drive: 20 GB; Video: 1280 x 1024 resolution; Operating System: Windows 7 Professional 32-bit with SP1; (64 bit not supported.) Network: 100Mbps NIC Card or 802.11G wireless card