

Q-12

12-Lead ECG



Technical Specifications

Product	Description	REF
Q-12	Diagnostic quality 12 lead stress testing ECG	A-661-200-121
Standard Packaging	Q-12 unit, USB cable (3m), Patient cable clip (70/105 cm, IEC)	
Measurements		
Rest ECG License	Rest ECG	
Rest/Stress ECG License	Rest ECG, Stress ECG, Cardiopulmonary Stress ECG	
Signal Acquisition		
Sampling frequency	1000, 2000, 4000, 8000, 16000 (USB), 32000 (USB) Hz	
Frequency response	0-0.262 x sampling frequency Hz	
Resolution A/D	1.525 μ V/bit	
CMRR	>93 dB	
Input impedance	10 M Ω when electrode recognition is active 1000 M Ω when electrode recognition is inactive	
Signal Reprocessing		
Filtering	Baseline, muscle noise, powerline	
Leads quality check	With visual and audible alarm	
Main parameters	ST deviation, ST slope, P, PR, QRS, QT (custom correction formula), QTd	
Main tools	J+ point selection, measurements, rest snapshots selection, pacemaker detection, arrhythmia detection, user events, rhythm events, protocol events, trends	
Hardware		
Dimensions & Weight	18 x 7.8 x 2.3 cm / 130 g	
Power supply	USB, Li-Ion battery (10 hours autonomy)	
Wired connectivity	USB cable	
Wireless connectivity	Bluetooth® (range 10 m line-of-sight)	
Software		
Languages	English, Chinese (Traditional & Simplified), Czech, Danish, Dutch, French, German, Greek, Hebrew (interpretation only), Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Turkish, Ukrainian	
PC Requirements	Windows 10 (64bit), Windows 11 (64bit), CPU type $\geq$ Intel i3 10th generation, CPU speed $\geq$ 1.4 GHz, RAM $\geq$ 8GB, HD $\geq$ 32GB for full installation, Monitor resolution $\geq$ 1366x768 pixel, $\geq$ 2 USB port	
Export format	Standard: Full disclosure, PDF, XML, Raw Optional: GDT, DICOM, HL7	
Options	Description	REF
Rest ECG License	License for rest test with Q-12	C04160-10-11
Rest/Stress ECG License	License for rest and stress test with Q-12	C04160-20-11
Tango®	Automated non-invasive blood pressure monitor	A-661-200-018
Pulse Oximetry	Nonin® 3150 wrist-based Bluetooth® pulse oximeter	A-661-600-018
Accessories	Description	REF
Cart	Wheeled cart	A-258-900-007
Printer tray	Printer tray for cart	A-258-500-017
Tango mount	Cart mount for Tango support	A-258-500-010
Tango arm	Arm support for Tango	C02085-01-08
Suction system support	Support for suction system	A-258-500-014
Suction system	Suction system	A-661-200-098
Isolation transformer suppo	Cart brackets for isolation transformer	A-258-500-018
Isolation transformer	Isolation transformer 300VA	A-661-511-002
Patient cable	Patient cable Rest/Stress w/clip	A-661-200-123
Patient cable	Patient cable Stress w/clip	A-661-200-125
Patient cable	Patient cable Stress w/banana clip	A-661-200-126

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D-sub adapter	Adapter for suction system	A-661-200-127
TTL cable	Cable for TTL HR trigger	A-661-200-135
Case with belt	Carrying bag for Stress test	A-661-200-128
USB cable	USB A-A cable (3m)	A-661-200-124
USB cable	USB A-A extension cable (1.8m)	A-661-200-131
USB power supply	USB power supply	A-661-200-129
PC Bluetooth® adapter	Bluetooth adapter for PC	A-661-200-130
Consumables		
Hygiene bag	Protective bag for rest test (50 pcs.)	A-661-200-133
Hygiene bag	Protective bag for stress test (50 pcs.)	A-661-200-132
Adhesive stress electrodes	Electrodes Blue Sensor (Adult 500 pcs.)	A-661-902-095
Adhesive rest electrodes	Rest electrodes (100 pcs.)	C05544-01-98
Clamp electrodes	Limb clamp electrodes (Adult, 4 pcs.)	A-661-902-017
Clamp electrodes	Limb clamp electrodes (Pediatric, 4 pcs.)	A-661-902-018
Suction electrodes	Suction chest electrodes (24mm, 6 pcs.)	A-661-902-020
Safety & Quality Standards		
MDR (2017/745); EN 60601-1 (safety) / EN 60601-1-2 (EMC)		



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