



Myomonitor[®] IV



Designed to resolve the challenges of mobility, this ultra-portable EMG solution offers full-bandwidth signal recordings as either a wireless transmitter or an autonomous datalogger. The new Myomonitor[®]IV matches the outstanding low-noise performance of our Bagnoli devices by using our proven parallel-bar sensor technology. The exceptional lightweight design is an ideal choice for children and elderly patients.

Features:

- Ultra-lightweight (375 grams)¹
- Compact Dimensions (140 x 71 x 40 mm)
- Full EMG Bandwidth (20-450 Hz)
- 8/16 Channels
- 16-Bit Accuracy
- 250 meter Transmission Range²
- Real-Time Signal Viewing
- Long Battery Life (up to 8 hours)³
- Wireless Trigger for Synchronization
- 1 GB Memory Storage
- Removable SD Flash for fast data transfer
- Dual Mode Operation (wireless or datalogger)
- Full Color QVGA Screen

Accessories

Each channel can accept EMG and the following Biosignal Sensors:

- Force Gauges
- Accelerometers
- FSR Foot Switches
- EKG Sensor
- Respiration Sensor
- Goniometers

N.B. Delsys reserves the right to change Features and Specifications without notice.

Specifications

	Wireless Mode	DataLogging Mode
General		
Typical Operating Range	25m (closed office) - 250m (open space) ²	unlimited
Data Capacity	Computer-dependent	up to 1 GB
Medical Device Conformity	IEC 601	IEC 601
Classifications	Class I (93/42/EEC), Type BF	Class I (93/42/EEC), Type BF
Electrical		
Amplification	1000 V/V \pm 1% (Sensor-Dependent)	1000 V/V \pm 1% (Sensor Dependent)
Overall Channel Noise	\leq 1.2 μ V (RMS,R.T.I , Sensor-dependent)	\leq 1.2 μ V (RMS,R.T.I , Sensor-dependent)
Signal Resolution	16 Bits	16 Bits
Signal Input Range	\pm 5 V	\pm 5 V
Bandwidth	20-450 Hz, (Sensor-dependent)	20-450 Hz, (Sensor-dependent)
Sampling Rate	64 ksamples/sec (aggregate)	64 ksamples/sec (aggregate)
No. of Channels	up to 16	up to 16
Screen Size	240 x 320 pixels (QVGA)	240 x 320 pixels (QVGA)
Battery Requirements	7.2V, 2.0 Ah, Li-Ion Rechargeable	7.2V, 2.0 Ah, Li-Ion Rechargeable
Battery Duration per Charge	4 hours ³	8 hours ³
Wireless Trigger Delay	5ms ²	N/A
Mechanical		
Dimensions (Main Amplifier)	140 x 71 x 40 mm	140 x 71 x 40 mm
Dimensions (Input Module)	81 x 46 x 23 mm	81 x 46 x 23 mm
Mass (Main Amplifier)	375 g	375 g
Mass (Input Module)	85 g	85 g
Enclosure Material	ABS UL94HB	ABS UL94HB
Temperature Range	0-40° C	0-40° C

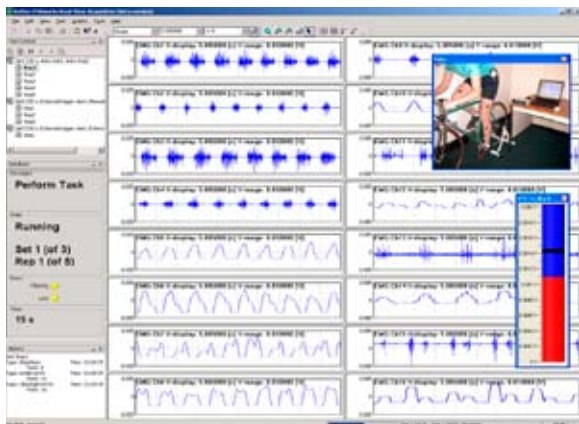
1) Mass of Main Unit

2) Wireless transmission performance is a function of the operating environment. Optimal performance is achieved in open spaces and with high performance PCs.

3) Battery life is affected by various usage conditions, including the number and types of sensors connected, the duration of the recordings, the use of the backlight and the use of wireless transmission.

EMGworks®

Signal Acquisition & Analysis



- Full-Featured Data acquisition package
- Comprehensive real-time display controls
- Acquisition Protocols, RMS feedback, Triggers
- Intuitive Graphical User Interface
- Accepts EMG and various Biosignal Sensors
- Analysis Module with extensive signal processing tools

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