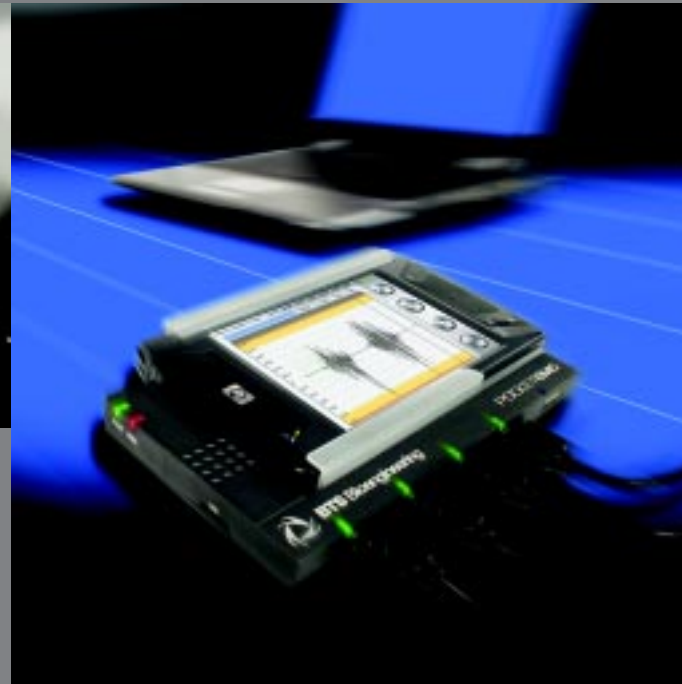


BTS POCKETEMG

Wireless surface EMG



BTS Bioengineering

BTS POCKETEMG

The new wireless surface EMG for the dynamic analysis of muscle activity

BTS PocketEMG is an innovative device designed for physicians, trainers, therapists and researchers that need a lightweight, powerful and easy to use EMG system with unparalleled signal quality.

Its power, versatility and highly configurable channels are designed to satisfy the most demanding users and make it the ideal device for clinical applications, rehabilitation therapies, sports medicine and for studies about functional medicine.

BTS PocketEMG envelops of state-of-the-art technology, weighing less than 300 grams with an user friendly interface and limitless functionality.

16 electromyographic channels, sampling rates of up to 10KH per channel, Wi-Fi Wireless technology and touch screen capabilities, make the BTS PocketEMG the leader in its class.

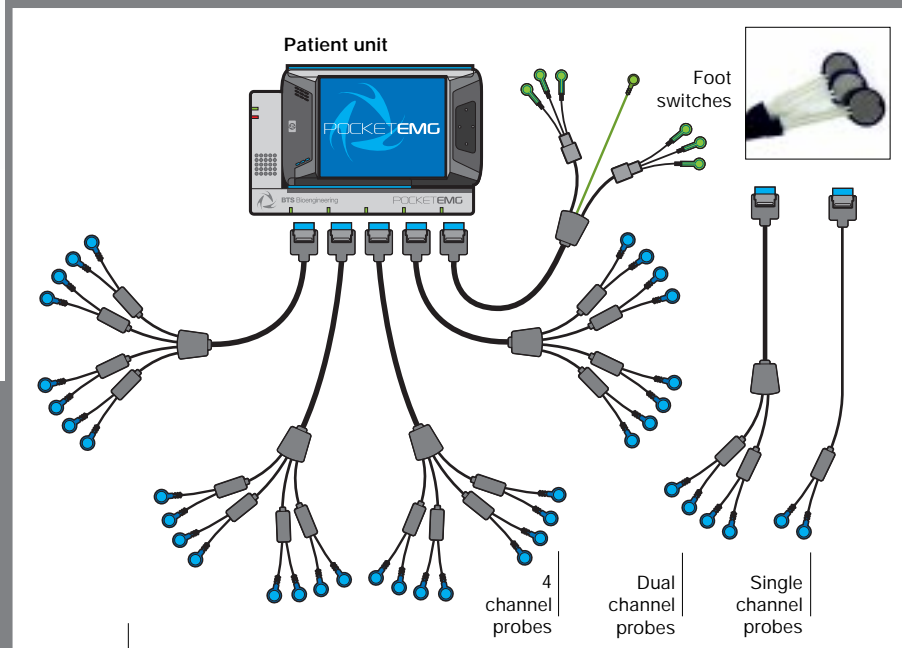
PocketEMG comes with either Myolab or Myolab Clinic, the powerful software packages that BTS has developed for EMG signal visualization, processing and reporting.

With Myolab it's possible to undertake advanced analysis, such as localized muscle fatigue.

Myolab Clinic integrates a protocol for the functional evaluation of the gait and, in combination with foot switches, can automatically identify events such as toe-off and heel-strike. With Myolab Clinic, PocketEMG becomes the perfect instrument to evaluate neurological and orthopedic pathologies, pharmacological therapies, motor deficit evolutions and to carry out rehabilitative follow-ups.



Control Station
Data collection, monitoring and reporting station



Pre-amplified electrodes
Individual probes parting from fanout boxes just a few centimeters from the contact point, thus greatly reducing wire clutter



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Compact and lightweight

Less than 300 grams in weight and an extremely compact form factor make it suitable for adults as well as for children.

Powerful and complete

16 analog channels plus 8 separate channels dedicated to footswitches.

6 additional digital channels.

Real-time analog scope, with remote telemetry for gain setup and signal cross-checking.

Advanced technology

Sampling frequency: up to 10KHz for each channel

16 bit sampling resolution

Wireless data transmission (WiFi 802.11b).

Automatic data backup on local storage: data is never lost because of noisy wireless connections.

Easy to use

Device set-up and operations are easy, thanks to the simple and intuitive graphical interface, the wide display. The use of the all new quikdress probes facilitate electrodes application.

Lab and holter modes

Stand-alone operations are made easy, thanks to the graphical interface, the interchangeable memory cards and the rechargeable batteries. When used in "holter" mode, day-long activities can be monitored and recorded.

Expandable

Data storage based on Secure Digital memory cards (up to 4GB)

Integrated

Designed to seamlessly integrate with movement analysis, posturometry and stabilometry systems.



Touch-screen display
Interactive graphic interface



Patient unit

Compact and lightweight, thus easy to wear and transport





BTS POCKETEMG

Specifications *

BTS Pocket EMG Patient Unit

Analog channels	16 dedicated to EMG signals + 8 dedicated to foot switches
Digital channels	6 channels for triggers and temporal marking
Acquisition frequency	up to 10KHz for each channel
Resolution	16 bit
Data transmission	Wireless (WiFi standard 802.11b)
Display	4" VGA touch-screen display
Data support	Secure Digital memory card (currently up to 4 GB)
Autonomy	up to 24h with multiple rechargeable battery packs, up to 9h with single battery
Weight & dimensions	< 300 grams - 152 x 97 x 22.5 mm

Realtime data visualization and graphical representation are obtainable through onboard viewing with the PDA HP IPAQ hx4700 Pocket PC

BTS Control Station

Monitoring and post-processing workstation connected to the Patient Unit with a WiFi link

BTS Myolab/Myolab Clinic software

Data acquisition, processing and visualization, easily driven by drag & drop operations
 Software oscilloscope for remote, real-time signal monitoring of up to 8 channels simultaneously
 Full features patient database
 Synchronized MPEG2 video stream from external sources
 Study of localized muscle fatigue (only with Myolab)
 Protocol for gait functional evaluation (only with Myolab Clinic)

Options

Expansions Module

The optional Expansion Module extends to 32 the number of analog channels and to 16 the number of digital channels.

Foot switches

Insole individual foot switches for the automatic identification of the gait events.

Electrogoniometers

Strain gauge technology for accurate measurement of joint angles in different planes.

BTS Video Acquisition System

The video acquisition and real-time processing system can be used to enrich the analysis of muscle activity with synchronized video feeds provided by external video cameras.
 Includes: BTS VIXTACAM control unit and up to 4 digital video cameras.

* Dimensions, weight and technical characteristics are subject to changes

BTS, BTS PocketEMG, Myolab, Myolab Clinic, BTS Vixtacam are products of BTS Spa. All other trademarks are properties of respective holders

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