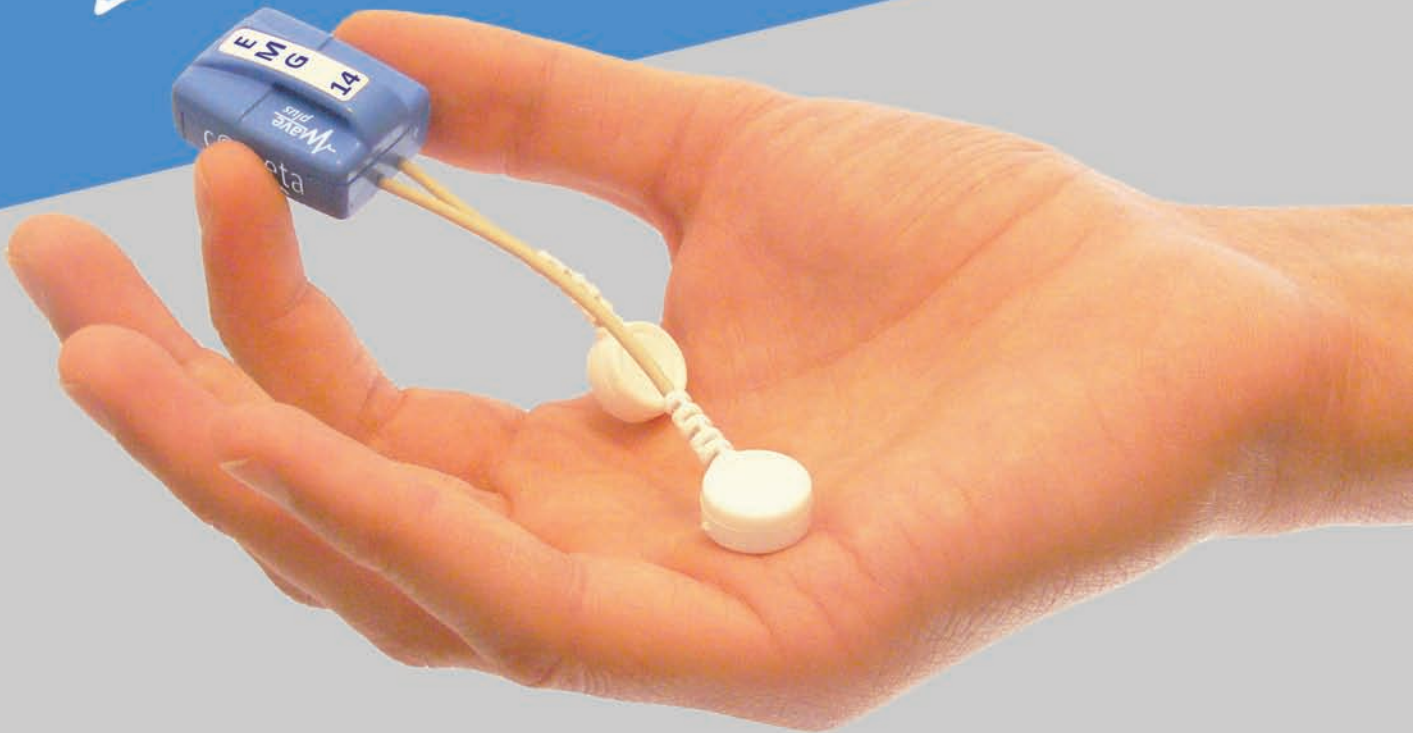




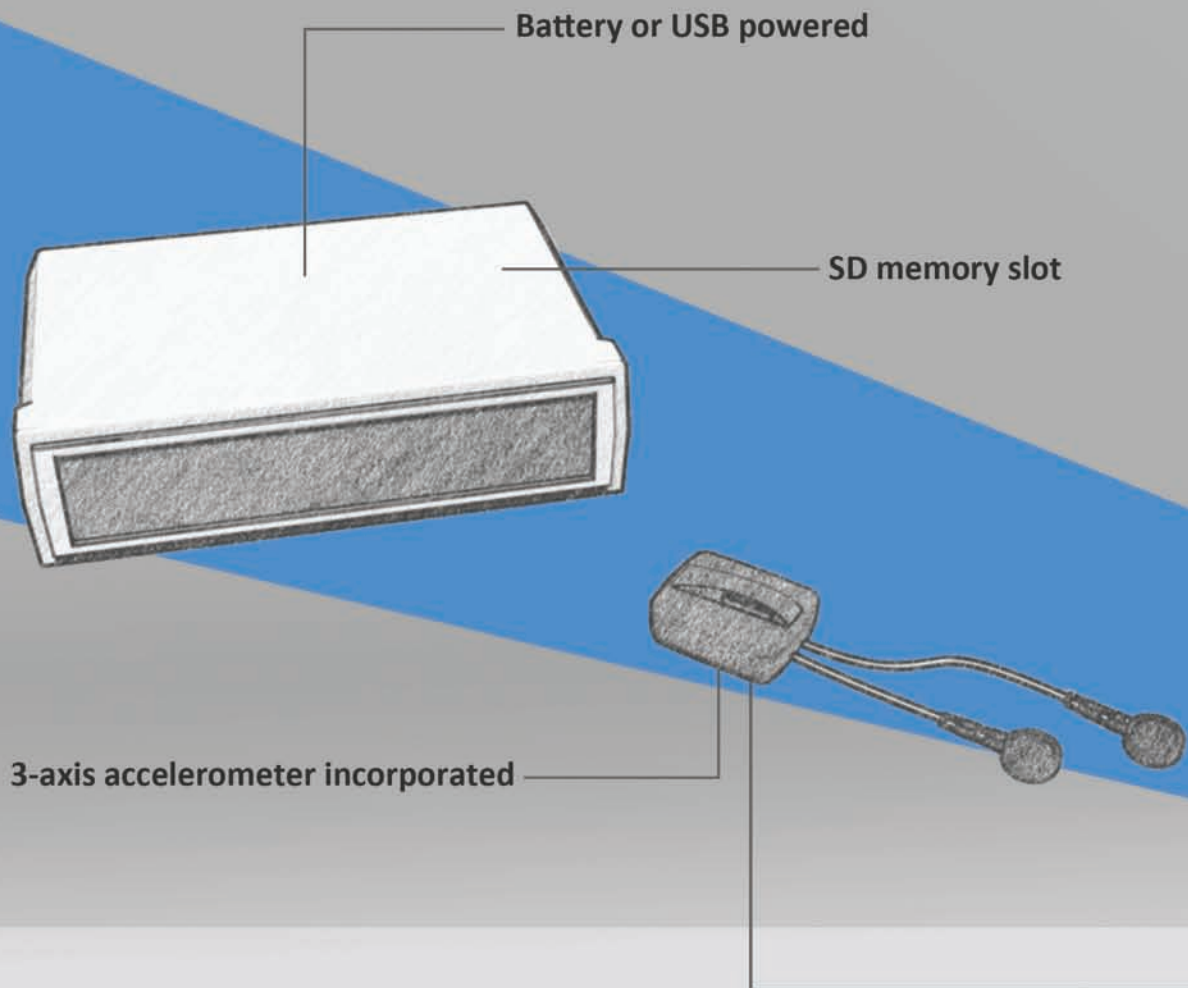
Wireless EMG and Accelerometers

Leading EMG innovation



The EMG meets the accelerometers

The evolution of the Wave EMG system, even more portable and powerful with accelerometers, battery powered receiver unit and SD memory slot.



16 or 32 channels EMG + FSW



16 accelerometers (3-axis) integrated in the probes



Simultaneous output of all data (total of 66 channels)

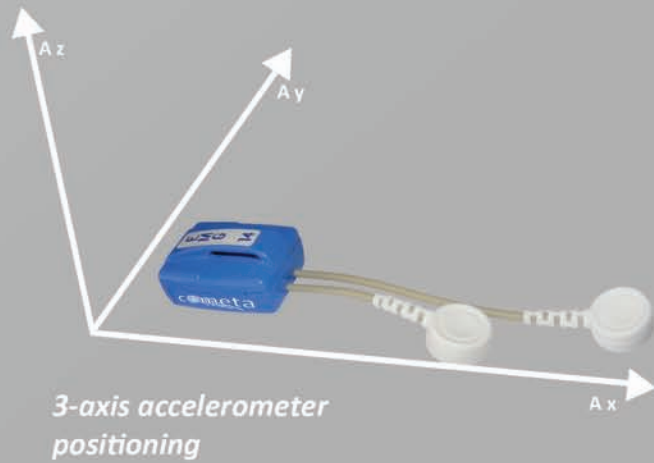


Analog output



New software features

All the new features come in the same small, lightweight and durable probe shell, which has become a synonymous of reliability and accuracy all over the world.

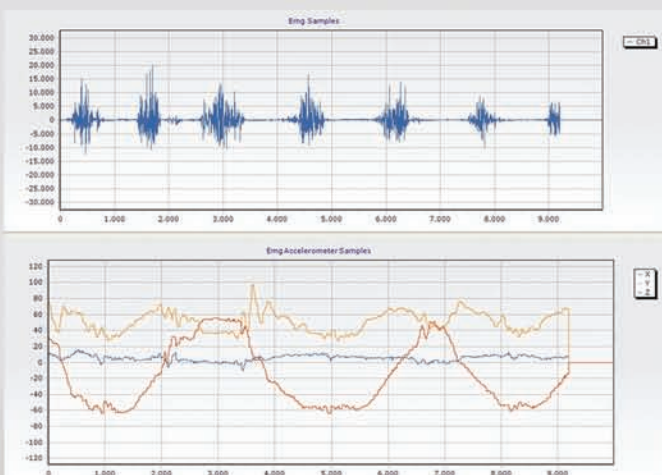


Each probe is equipped with embedded tri-axis accelerometer, automatic impedance check, new led signalling and highly customizable analog front end. This allows the use of a wide range of different sensors, from pressure to temperature, according to the customers' need, as well as the usual range of specific terminations, such as finewire, clips or 5mm Gereonics electrodes.

30% smaller than our Wave Wireless EMG



The battery, as for all of our EMG system, can be easily replaced once it is exhausted, giving a higher degree of autonomy to the customers, and reducing maintenance costs.



EMG signal

Accelerometer signal

Technical specifications

Base Unit

Transmission / Reception frequency.....2400 – 2524 MHz
Transmission power (ARP).....0,45 mW
Operating temperature range.....0 + 50 °C

Input:

Start triggerTTL, max ± 10 V
Trigger outTTL

Outputs:

Analog accelerometers (3-axis).... $\pm 2,5$ V, $Z_{out} = 100$ ohm
Analog EMG Output..... $\pm 2,5$ V, $Z_{out} = 100$ ohm
Abalog FSW Output..... 16 levels, max 4 V

Digital data output..... through USB 2.0

EMG system Gain..... 1.000 (1V/mV), 100 (0,1V/mV)
Using reduced gain input module

Dimension.....155 x 105 x 40 mm
Weight..... 150 gr.

Power supply:

- USB link or
- External 9V, 1,5 A adapter

3-Axis Accelerometer

Measurement range, each axis..... ± 2 , ± 4 , ± 8 , ± 16 g
Output resolution.....10 Bit
Sampling rate.....143 Hz
Digital offset compensation.....Each axis

Footswitch Module

Transmission / Reception frequency.....2400 – 2524 MHz
Transmission power (ARP)..... 0,45 mW
Continuous acquisition time..... > 8 h
FSW input..... four piezoresistive sensors
Dimensions..... 33 x 23 x 19 mm.
Weight.....12 gr.
Switching thresholduser selectable by SW



Via Vittorio Veneto 7
20080 Cislano Milano

Cell: +39 3409870881
Email: sales@cometasystems.com

Tel: +39 02 90388119
Fax: +39 1782794373

EMG Module

Transmission / Reception frequency.....2400 – 2524 MHz
Transmission power (ARP)..... 0,45 mW
Operating temperature range..... 0 + 50 °C
Continuous acquisition time(charged battery 100%)....> 8 h
EMG input..... $\pm 2,5$ mV

Filtering:

High-pass..... 10 Hz
Low-pass..... 500 KHz, 1 KHz

Sampling rate.....16 bit – 2 Ks/sec.
Dimensions.....33 x 23 x 19 mm.
Weight.....12 gr.

Docking Module

Recharging method.....Contactless inductive recharging
when electrodes are docked
Recharging capacity.....10/20 modules
Recharging time.....8 h (max. 24h) , auto shutoff
Weight.....400 gr.

Power supply:

- External 9V, 1,5A adapter

Environmental conditions

Operating temperature.....0°C /+45 °C
Electrodes recharging temperature..... 0°C /+45 °C
Working damp.....65 \pm 20 % RH
Storing temperature.....-20°C/ 35°C