

eego™ sports

ultra-mobile EEG & EMG recording solution



The total mobility solution.

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The compact **eego** amplifiers are designed with mobility in mind. With 24-bit resolution, up to 5-hours of recording time (32- and 64 channel amplifier with integrated battery) and weighing in at 100 (8 channel amplifier) or 500 grams, **eego** sports offers complete freedom to collect high-density EEG data, bipolar EMG signals and a variety of physiological

sensor data. Wherever and whenever required, you can get publish quality data in less than 15 minutes! While small, **eego** sports is highly durable and offers a host of add-ons and modules to meet the needs of nearly every researcher interested in the mechanisms underlying cognitive processes and body motion. Recordings can be done in nearly any

environment on nearly any subject, even world-class athletes at work. Powerful, highly adaptable, and intuitive: **eego** sports is a system for collecting comprehensive and reliable data of body and mind in real-life settings like no other. **eego** sports is the ultimate solution for you!

Always ready for experiments: **eego** sports comes with a light-weight, water-resistant suitcase which can easily be carried around



Core features & benefits

- Online live EEG and EMG
- Plug & play system with quick set-up times
- High-density recordings with ultra-high signal range
- Available in 5 configurations for recordings of up to 64 referential channels
- Extended pro configurations include EMG and physiological sensors
- Acquisition of up to 24 bipolar channels *optional in pro only*
- Physiological sensors for respiration, temperature, skin conductance and acceleration *available in pro only*
- Artefact protection with active shielding technology
- Programmable gain
- User-selectable sampling rate up to 2048 Hz
- 8-bit trigger input (or 2-bit in 8 channel amplifiers) for ERP studies and synchronization with external devices
- Real-time data access for seamless integration with mind-machine interfaces
- Archive server solution for safe storage, data backup and external media
- Synchronized video recording optional
- The **eego** amplifier is a CE Class IIa medical device



eego™ sports applications



Sport sciences



Real-time data interfaces



Neurorehabilitation



Neuromarketing



Behavioural psychology

eego™ archive server

The **eego** archive server solution is a storage option for professional **eego** sports users and allows easy archiving of recordings on a high-capacity hard disc. Using this solution, the **eego** sports tablet with its limited storage is kept clean of old recordings and is always ready for new data. **eego** archive server is available for all four **eego** sports systems, as an optional accessory.

eego amplifier technical specifications

eego amplifier	8 channel (EE-411)	32 and 64 channel (EE-2xx)
Dimensions (w x d x h)	86 x 100 x 16 mm	160 x 205 x 22 mm
Weight	< 100 gram	< 500 gram
Number of referential channels	8	32 or 64
Noise	< 1.0 μ V rms	< 1.0 μ V rms
Referential input signal range	150 -1000 mV pp	150 -1000 mV pp
Input Impedance	> 1G Ω	> 1G Ω
CMRR	> 100 dB	> 100 dB
Max. sampling rate	2048 Hz	2048 Hz
Resolution	24 bit	24 bit
Trigger input	2-bit TTL	8-bit TTL
USB output interface	USB 3.0 compatible, electrically separated	USB 3.0 compatible, electrically separated
Battery	No integrated battery	Integrated
Operation time	Depends on host device battery	Up to 5 hours

eego™ sports product range

System components	eego sports 8 (ES-234)	eego sports 32 (ES-230) eego sports 32 pro (ES-231)	eego sports 64 (ES-232) eego sports 64 pro (ES-233)
eego amplifier	8-channel eego amplifier, 2 kHz, CE Class IIa medical device	32-channel eego amplifier, 2 kHz, CE Class IIa medical device	64-channel eego amplifier, 2 kHz, CE Class IIa medical device
eego software recording, review & export	✓	✓	✓
waveguard eeg cap – sizes B, I, C, S, M, L	One 8-channel waveguard cap (free choice of size)	One 32-channel waveguard cap (free choice of size)	One 64-channel waveguard cap (free choice of size)
asa pro advanced EEG/ERP analysis	3-month trial	3-month trial	3-month trial
Small Windows tablet	✓	✓	✓
eego sports backpack	✓	✓	✓
EEG starter kit	✓	✓	✓
eego sports suitcase	✓	✓	✓
Trigger adapters	DB25 and BNC	DB25 and BNC	DB25 and BNC
Bipolar channels	--	2 (only for ES-231)	2 (only for ES-233)
Auxiliary channels	--	4 (only for ES-231)	4 (only for ES-233)
Auxiliary sensor kit	--	only for ES-231	only for ES-233
Bipolar channel upgrade (unshielded, up to 24)	--	optional for ES-231	optional for ES-233
Sensebox	--	only for ES-231	only for ES-233
Network event compatible (LSL)	✓	✓	✓
Warranty	eego amplifier: 2 years waveguard cap: 1 year	eego amplifier: 2 years waveguard cap: 1 year	eego amplifier: 2 years waveguard cap: 1 year
Support	6 months of free remote support & software updates	6 months of free remote support & software updates	6 months of free remote support & software updates

* optional exchange for laptop or PC.

An extensive list of available product options and accessories as well as additional remote and on-site trainings is available upon request.

eego™ amplifier is CE marked as a medical device in the EU, according to MDD 93/42/EEC, class IIa.
waveguard™ caps are CE marked as medical device in the EU, according to MDD 93/42/EEC, class I.
Manufactured by eemagine Medical Imaging Solutions GmbH, Berlin, Germany, ISO 13485 certified.
ANT Neuro and eemagine are part of the neuromotion group.

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Information in this document is subject to change.

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