eego™ mylab

multi-modal high-resolution EEG/ERP solution

Deeper insights through better technology.

ant neuro
inspiring technology

eego™mylab

multi-modal high-resolution EEG/ERP solution

The new frontier in multimodal brain research. With up to 16 kHz sampling rate, 256 EEG channels and unique software features, eego mylab gives you an unprecedented in-depth understanding of the human brain.

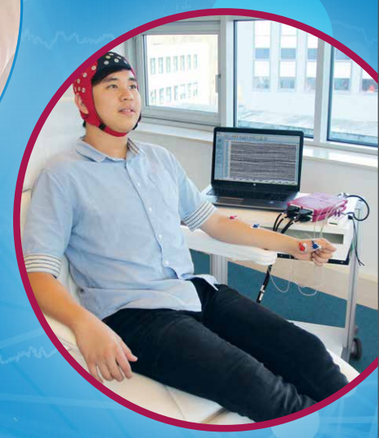
- Plug & play system with quick set-up times for use in clinical as well as research settings
- Available in 4 versions for recordings from 32 to 256 EEG channels
- Offers ultimate flexibility: cascaded systems can be easily split and used as individual (mobile) 64-channel systems*
- Includes a wealth of software features designed for unconstrained and intuitive performance, ranging from practical recording workflow and subject management to an advanced sensor value display
- Online streaming of EEG, impedances and event data via network
- Comes with an input for a seamless and straightforward connection to physiological sensors
- Input for recordings with up to 24 bipolar channels or sensors (per amplifier)
- High-density recordings with programmable high signal range
- The ultra-high input impedance of 1 GOhm results in optimal recording with reduced electrode preparation time
- 24 bit resolution
- The innovative design of **wave**guard EEG caps assures comfortable recordings, ease of use, and short preparation times
- Support for gel-based **wave**guard original and innovative **wave**guard touch dry electrode caps
- Trigger input for ERP studies and synchronization with external devices
- High temporal resolution data thanks to the sampling rate of up to 16 kHz per referential channel (user selectable and independant of channel count)
- Optimal signal quality through active shielding
- Compact and light-weight system with integrated battery for recordings of up to 5 hours
- Free SDK for real-time data access for BCI, neurofeedback and related applications
- Tailored solutions are available upon request

* Contact us for more information.

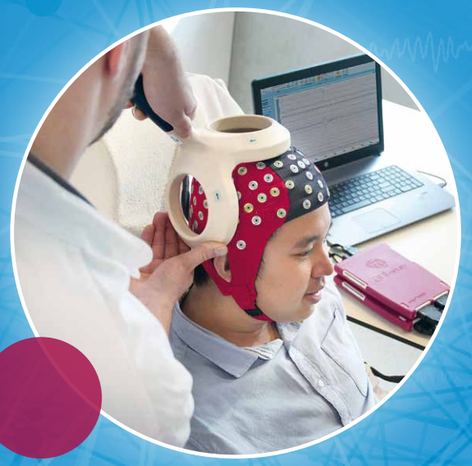
High-density EEG/ERP* experiments with high sampling rate

Research and clinical validation protocols

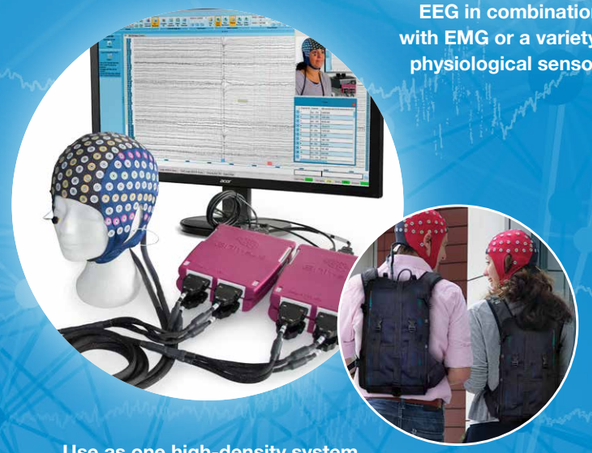
eego mylab applications



EEG in combination with EMG or a variety of physiological sensors



Multi-modal solution for easy integration with various technologies such as TMS, tDCS/tACS etc.



Use as one high-density system or as separate (mobile)* systems

* Contact us for more information.

eego amplifier technical specifications

Dimensions (w x d x h)	160 x 205 x 22 mm / amplifier
Weight	< 500 gram / amplifier
Number of referential channels	32, 64, 128, 256 (depending on amplifier model) actively shielded inputs. Separate reference and patient ground.
Number of bipolar channels	24 / amplifier
Referential input noise	< 1.0 µVRMS (lowest sampling rate and signal range)
Referential input signal range	150 – 1000 mVPP (programmable gain)
Referential input impedance	> 1 GOhm
Referential common mode rejection ratio (CMRR)	> 100 dB
Bipolar maximum sampling rate across all referential channels	16384 Hz per referential channel
Resolution	24 bit
Trigger input	8 bit TTL
USB output interface	USB 2.0 compatible, electrically separated
Battery	Integrated
Operation time	Up to 5h

The new frontier in multi-modal brain research

eego mylab has been designed to satisfy the needs of even the most demanding researchers. With a sampling rate of 16 kHz it provides you with the highest temporal resolution and reliable results.

The easy-to-use and clinically approved EEG/ERP* solution offers high flexibility and full control over experimental settings. The system is ideal for investigating a multitude of EEG paradigms, such as (SS)VEP, AEP, MMN, P300 and BAER as well as for complex paradigms in combination with TMS, EMG or customized solutions such as MEG, and tDCS/tACS. While highly versatile, it is well suited for novice as well as experienced users. Thanks to the combination of high sampling rate, high density and the unique active shielding technology, acquisition of comprehensive data stays optimal even in adverse environments.

The battery powered system is available in 4 versions for recordings from 32 to 256 EEG channels. The cascaded 128- and 256-channel versions offer the users a unique benefit; the high-density EEG stations can be easily split into separate 64-channel EEG systems for individual use or group studies. A web-based remote control function offers convenient management of multiple simultaneous recordings. On top of this, turning each 32- and 64-channel amplifier into a mobile system is as easy as adding the dedicated mobility pack.

eego mylab offers the users a broad set of tools for a variety of studies to gain an in-depth understanding of the human brain. The system is loaded with user friendly software features for both simple and complex experiments, including step-by-step recording workflow, impedances check, subject entry management, synchronized video recording and more. In addition, the functionality can be easily extended with EOG, ECG, EMG, real-time data access and physiological sensors for respiration, temperature, skin conductance, acceleration and blood oxygenation.

The multi-modal system is the ultimate tool for studies seeking to determine psychophysiological correlates of mental processes, discriminate between different brain disorders and forge the path for new pursuits in neuroscience, neurodiagnostics and BCI.

eego™mylab product range

System components	**eego** mylab 32 ES-303	**eego** mylab 64 ES-300	**eego** mylab 128 ES-301	**eego** mylab 256 ES-302
eego amplifier	32-channel **eego** amplifier, 16 kHz	64-channel **eego** amplifier, 16 kHz	Two cascaded 64-channel **eego** amplifiers, 16 kHz	Four cascaded 64-channel **eego** amplifiers, 16 kHz
eego recording & reviewing license	✓	✓	✓	✓
Network event compatible (LSL)	✓	✓	✓	✓
Network EEG streaming	✓	✓	✓	✓
Remote control function	✓	✓	✓	✓
Synchronized video recording module (excl. hardware)	✓	✓	✓	✓
asa pro: Advanced analysis software including various source analysis algorithms	3-month trial	3-month trial	3-month trial	3-month trial
waveguard EEG cap Available sizes: N3, N4, N5, B, I, C, S, M, L	32-channel **wave**guard cap (free choice of size: N3-L)	64-channel **wave**guard cap (free choice of size: B-L)	128-channel **wave**guard cap (free choice of size: C-L)	256-channel **wave**guard cap (free choice of size: S-L)
Desktop PC & monitor optional laptop or all-in-one PC	✓	✓	✓	✓
Recording input for up to 24 bipolar channels (per amplifier)	✓	✓	✓	✓
Sensebox: Adapter for 4 auxiliary and 2 passive sensors	✓	✓	✓	✓
Trigger adapter, DB25	✓	✓	-	-
Cascading trigger adapter, DB25	-	-	✓	✓
EEG starter kit	✓	✓	✓	✓
Warranty	**eego** amplifier: 2 years **wave**guard cap: 1 year	**eego** amplifier: 2 years **wave**guard cap: 1 year	**eego** amplifier: 2 years **wave**guard cap: 1 year	**eego** amplifier: 2 years **wave**guard cap: 1 year
Support	6 months of free remote support	6 months of free remote support	6 months of free remote support	6 months of free remote support

Optional extras

- Headbox available in 2 variants: 32 (clinical layout 24 EEG + 4 bipolar) and 64 (research layout) channels
- Auxiliary sensor kit incl. sensors for respiration, temperature, skin conductance and acceleration
- SpO2 Sensor
- Adapters for bipolar channels + bipolar starter kit
- Full HD camera for synchronized video recording
- Photic flash
- Mobility pack for mobile data acquisition
- Cascading upgrade to **eego** mylab 128 or 256
- And many more

32-channel headbox

Full HD camera
(Actual model may vary)

Bipolar adapter

Photic flash

Archive server
(Actual model may vary)

An extensive list of product options, accessories, additional remote and on-site training is available upon request.

eego™amplifiers and **wave**guard™ caps are CE marked medical devices, and have FDA clearance under 510(k).
Manufactured by eemagine Medical Imaging Solutions GmbH, Berlin, Germany, ISO 13485 certified.
ANT Neuro and eemagine are part of the neuromotion group.

For more information about **eego**™ and the regulatory status in your country, contact us at sales@ant-neuro.com. Selected features are for research only.

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Information in this document is subject to change.

www.ant-neuro.com/products/eego_mylab

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