

eego™ mylab

multi-modal high-resolution eeg/erp solution



Deeper insights through better technology.

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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 advanced sensor value display, online averaging and alike.
- Comes with an input for a seamless and straightforward connection to physiological sensors.
- Includes an input for recordings with up to 24 bipolar channels (per amplifier).
- High-density recordings with programmable high signal range.
- High temporal resolution data thanks to one of the highest sampling rates in the industry: sampling rate of up to 16 kHz (user selectable).
- The ultra-high input impedance of 1 GOhm results in optimal recording with reduced electrode preparation time.
- The innovative design of **waveguard** EEG caps assures comfortable recordings, ease of use, and short preparation times.
- 8-bit trigger input for ERP studies and synchronization with external devices.
- 24 bit resolution.
- Optimal signal quality through active shielding.
- Compact and light-weight system with integrated battery for recordings of up to 5 hours.
- Optional API for real-time data access for BCI, neurofeedback and related applications.
- Tailored solutions are available upon request.
- The **eego** amplifier is a CE Class IIa medical device.

* Contact us for more information.



eego mylab 128 solution

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 μ V _{RMS} (lowest sampling rate and signal range)
Referential input signal range	150 – 1000 mV _{PP} (programmable gain)
Referential input impedance	> 1 GOhm
Referential common mode rejection ratio (CMRR)	> 100 dB
Maximum sampling rate	16384 Hz
Resolution	24 bit
Trigger input	8 bit TTL
USB output interface	USB 2.0 compatible, electrically separated
Battery	Integrated
Operation time	Up to 5h



High-density EEG/ERP experiments with high sampling rate



Research and clinical validation protocols



EEG in combination with EMG or a variety of physiological sensors

eego mylab applications



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



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



* Contact us for more information.

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 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. On top of this, turning each 32- and 64-channel amplifier into a mobile system is as easy as adding a dedicated mobility pack.

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 all kinds 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, fMRI 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.

eego mylab offers the users a broad set of tools for a variety of studies to gain in-depth understanding of the human brain. The system is loaded

with user friendly software features for simple and complex experiments, including step-by-step recording workflow, impedances check, subject entry management, online averaging, 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 and acceleration.

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, CE Class IIa medical device	64- channel eego amplifier, 16 kHz, CE Class IIa medical device	Two cascaded 64-channel eego amplifiers, 16 kHz, CE Class IIa medical device	Four cascaded 64-channel eego amplifiers, 16 kHz, CE Class IIa medical device
eego recording & reviewing license	✓	✓	✓	✓
Online averaging module	✓	✓	✓	✓
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 waveguard cap (free choice of size: N3-L)	64-channel waveguard cap (free choice of size: B-L)	128-channel waveguard cap (free choice of size: C-L)	256-channel waveguard cap (free choice of size: S-L)
Desktop PC & monitor	✓	✓	✓	✓
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	-	-	✓	✓
EEG starter kit	✓	✓	✓	✓
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	eego amplifier: 2 years waveguard 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
- Adapters for bipolar channels + bipolar starter kit
- Full HD camera for synchronized video recording
- eevoke ERP presentation system
- API for direct real-time data access
- Photic flash
- Mobility set
- Cascading upgrade to eego mylab 128 or 256

				
32-channel headbox	Full HD camera (Actual model may vary)	Bipolar adapter	Photic flash	Archive server (Actual model may vary)

And many more...

To accommodate your research needs and serve you in the best way we can, an extensive list of product options, accessories and additional remote and on-site trainings is available upon request.

eego™ is CE marked as a medical device in the EU, according to MDD 93/42/EEC, class IIa. Outside the EU eego is intended for research and educational purposes only.

waveguard caps are compliant with international standards for use in clinical environments. The caps are CE marked and have a MDL issued by Health Canada. The waveguard caps have been granted Medical Device clearance under FDA 510(k); with exception to the neonatal caps, which, outside the EU and Canada, are intended for investigational use only.

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Information in this document is subject to change.

www.ant-neuro.com/products/eego_mylab