

Easy operation

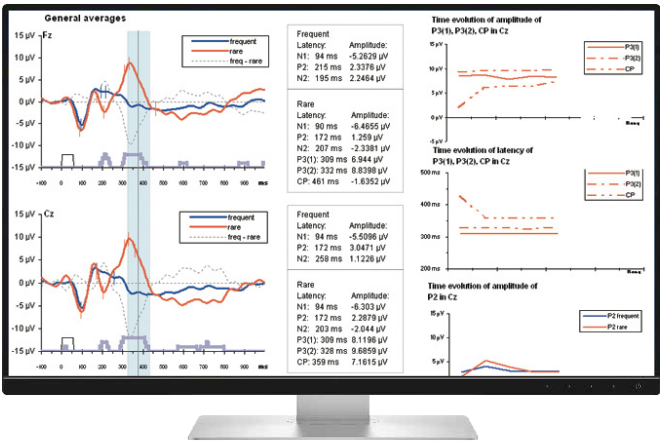
Patient management and administration are indispensable for a clinical system. **cognitrace** provides a smooth network-wide access and user interface for the administration of patients, their recordings and reports. **cognitrace** is set up in a way that regular EEG and complex cognitive paradigms are combined in one session.

Potential areas of applications

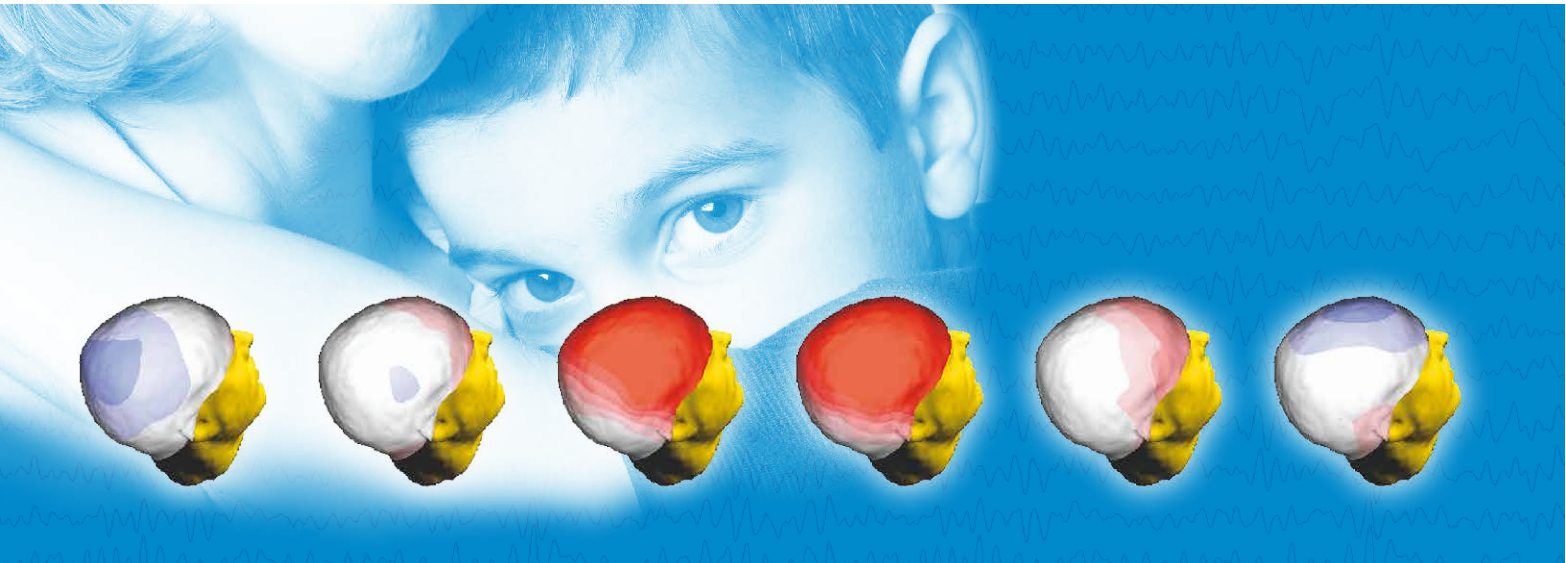
- Alzheimer's & dementia
- Depression
- Personality disorder
- Obsessive-compulsive disorder (OCD)
- Learning disabilities
- Parkinson
- Anxiety
- Schizophrenia
- Head injury
- Psychoses
- Dyslexia
- Autism spectrum disorder (ASD)
- Attention deficit hyperactivity disorder (ADHD)

Complete turn-key solution

The innovative click-and-go concept of **cognitrace** contributes to the efficiency of the system. Well-designed templates outline the workflow and lead you step by step through recording, analysis and reporting. The intuitive displays for EEG traces, voltage and spectral maps are documented automatically into ready-to-print reports.



cognitrace™
clinical neuro-psychiatry system



Typical configuration and extension items

cognitrace solutions item list	Auditory Presentation Module (optional)	Photic Presentation Module (optional)	Video Presentation Module (optional)
SC-100 cognitrace system recording and review (incl. preinstalled software and eego amplifier)	XS-110 Presentation headphones	XS-180 eelite presentation package	SE-100 eevoke presentation solution for cognitrace
XS-613 PC system with keyboard, mouse and monitor	XS-113 Audio extension cable	--	--
XS-237 Single button response box	--	--	--
CA-XXX waveguard EEG cap	--	--	--

cognitrace™ and eego™ amplifier are 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.
The information in this document is not intended for users outside the European Union.
For use outside the EU please send your inquiry to sales@ant-neuro.com

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Information in this document is subject to change.

www.ant-neuro.com/products/cognitrace



EN-0118-4.0 ANT DRN-SLS-2405

Highly integrated system with standardized protocols for neuropsychological assessment.



cognitrace™

clinical neuro-psychiatry system

EEG and cognitive evoked potentials have an important role in the evaluation of psychiatric patients. **cognitrace™** provides you with a complete range of tests that can be used to evaluate psychiatric and neurological conditions. The system applies dedicated recording hardware and analysis protocols for quantitative EEG (QEEG) and event-related potential (ERP) data. Topographical maps of the spectral power of EEG and the event-related brain responses are linked with statistical information available for age-matched reference groups to gain objective data that help differentiating psychiatric from neurological cases.

Comprehensive cognitive tests

Audio-visual stimuli are presented to the patient, while the system collects the neurophysiological responses of the brain (EEG). The most common sessions include:

- Spontaneous EEG (eyes open/closed condition, hyperventilation, flash presentation): indication for possible neurological deficits
- Visual Evoked Potential (VEP): response of the brain's visual system
- Auditory Evoked Potential (AEP): cortical (long latency) response of the auditory system
- Auditory oddball paradigm (P300): capacity to process relevant and ignore irrelevant information, indicator for attention deficits of various forms
- Contingent Negative Variation (CNV, Bereitschaftspotential): response anticipation
- Pattern detection and general indicator of neurodegeneration.

cognitrace™ - at a glance

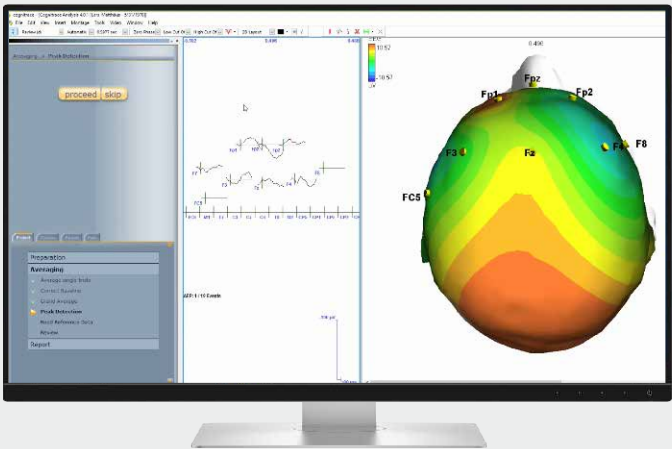
- Complete range of tests for daily routine to discriminate between psychiatric and neurological diseases
- Portable EEG/ERP recording system with 8, 32 or 64 channels
- Modern **eego™** EEG amplifier
- Actively shielded Silver (sintered Ag/AgCl) electrodes with unmatched signal quality and DC stability
- High quality **waveguard™** cap design for ultimate comfort, short preparation times and easy to use
- Flexible protocols for auditory presentation
- Reference data for statistical comparison between patients and age-matched group data
- Optional spike and seizure detection
- Fully integrated patient management database for administration and archiving
- Open and modular system that can be easily adjusted and customized
- CE certified

cognitrace™ system

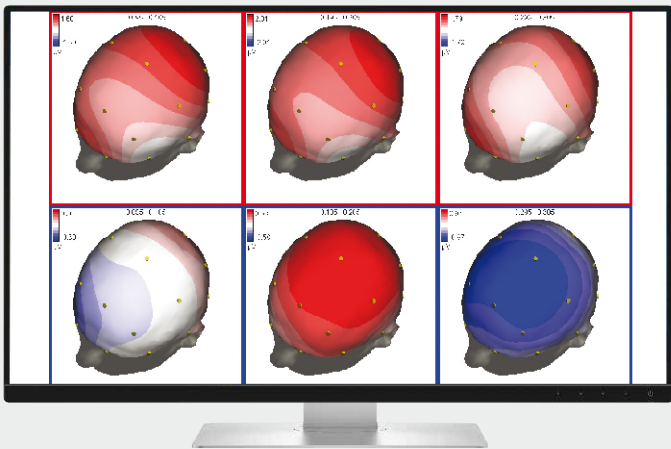
The performance of any EEG system relies on the system's ability to record clean data. Active shielding technology and **eego** software artefact correction will provide clean EEG signals. With ANT Neuro's high quality **waveguard** EEG cap and high-resolution **eego** EEG amplifier, your solution will meet the highest standards of signal quality. Active shielding for each sensor keeps external noise away and renders electrical shielding of the EEG room obsolete.



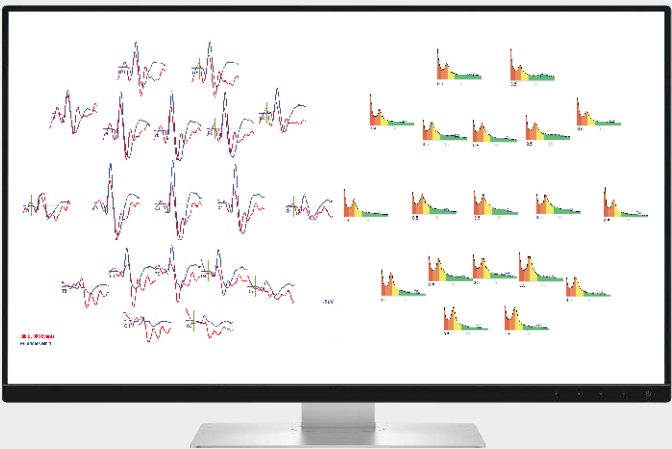
EEG amplifier, computer system,
EEG headcap and presentation accessories



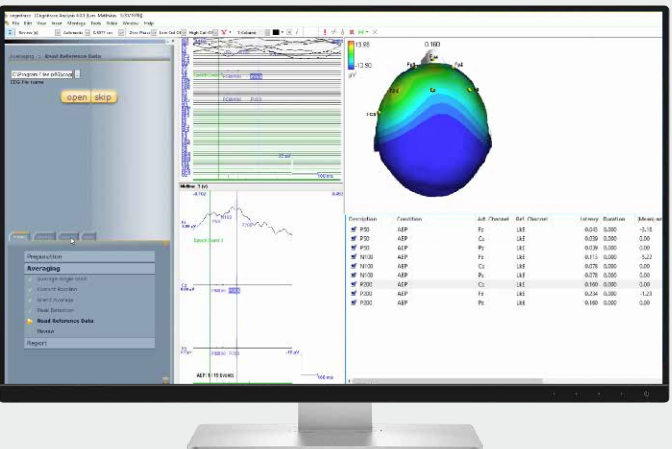
FFT Spectral power topographic mapping



ERP topographic mapping in comparison with
age-matched reference data



ERP and spectral plot in head-layout



Inspection of ERP peak components