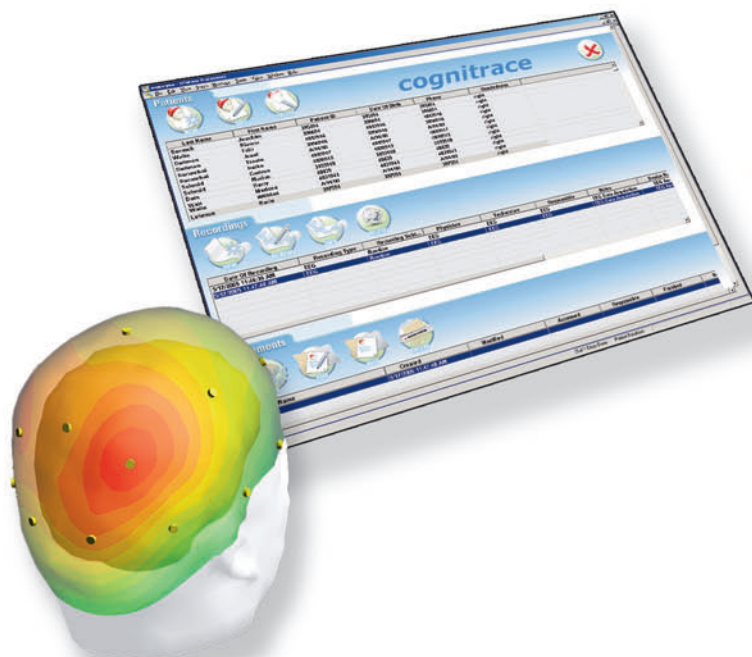
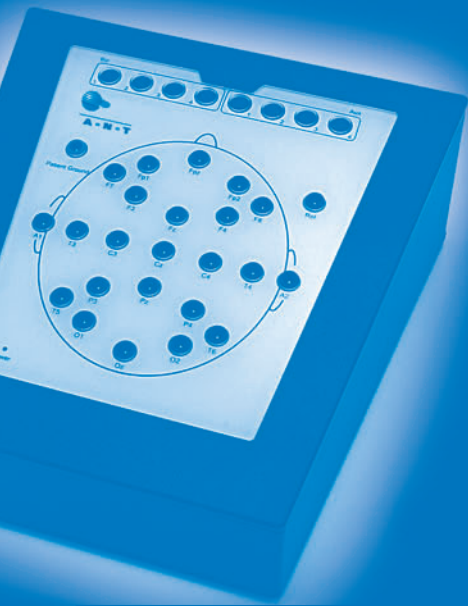


cognitrace™

clinical neuro-psychiatry system



ant neuro
inspiring technology

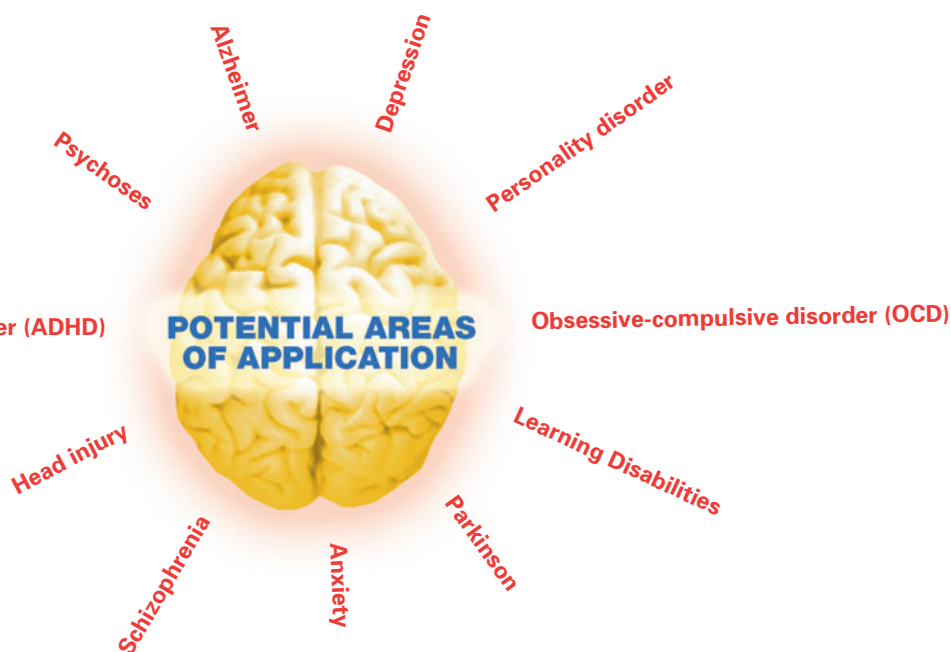


cognitrace™ - the clinical neuro-psychiatry system

EEG and cognitive evoked potentials have a role in the evaluation of certain psychiatric patients. **cognitrace™** provides you with a complete battery of tests that can be used to evaluate psychiatric and neurological diseases. **cognitrace** applies dedicated recording hardware and analysis protocols for EEG and evoked potential (EP) 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.



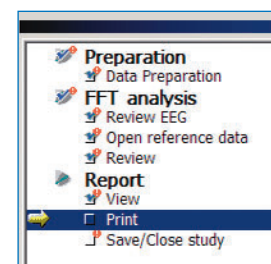
cognitrace system



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 the recording, analysis and reporting. The intuitive displays for EEG traces, voltage and spectral maps are documented automatically into ready-to-print reports.



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, which saves time and money.





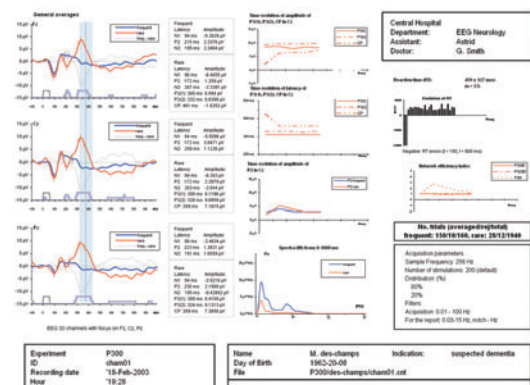
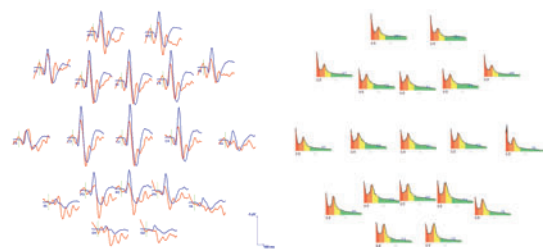
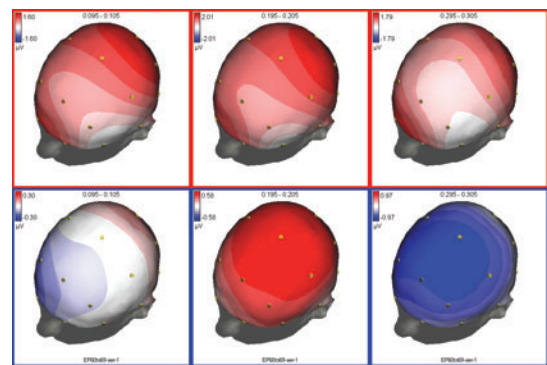
Comprehensive cognitive tests

Audio-visual stimuli are presented to the patient while the system collects the corresponding brain waves through the scalp. The most common sessions include:

- Spontaneous EEG (Eyes open/closed condition, hyperventilation, flash stimulation): 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
- P50 paradigm: inhibition of the brain to repeated information

cognitrace™ - at a glance

- Portable EEG/ERP recording system with 24 channels (optional 32, 64 or 128 channels)
- Modern EEG amplifier with optical data transmission
- Silver electrodes (Ag/AgCl) with unmatched signal quality and DC stability
- Innovative cap design for ultimate comfort, short preparation times and ease of use
- Flexible protocols for auditory and visual presentations
- Reference data for statistical comparison between patients and age-matched group data
- Spike and seizure detection (optional)
- Fully integrated patient management database for administration and archiving
- Network integration with option to add review stations
- Open and modular system that can be easily adjusted and customized
- CE certified, FDA 510(k) clearance





Research extensions

High-density EEG/ERP system and waveguard cap

The performance of any EEG system relies on the system's ability to record clean data. With our innovative **waveguard** cap and the ANT high-resolution amplifier for 64/128/256 EEG channels, your research system will meet the highest standards of EEG signal quality. Active shielding for each sensor keeps external noise away even for very long electrode cables and renders electrical shielding of the EEG room obsolete. The system can be completed with **asa** source localization and patient MRI/fMRI co-registration tools.

asa™: advanced EEG/MRI analysis

For more sophisticated, non-invasive 3D functional neuro-imaging, **cognitrace** can be tightly integrated with the **asa** package, the most widely used EEG/MEG analysis software. **asa** incorporates the integration of MRI and individual head modeling as well as advanced methods to reconstruct electrical brain activity. The **asa** package extends its capabilities to the analysis of high-density evoked and event-related potentials.



ANT Neuro, the Complete Solution Provider

ANT Neuro specializes in being a single-source provider of high-performance products within neuroscience research and neurodiagnostics. Applications include EEG, EMG, MRI, TMS and MEG technology. We are committed to serving our customers the best-possible solutions available through our dedication to advancing the capabilities of neurotechnology, through steadfast relationships with our user community, and through helping further the collective understanding of the human brain, with the ultimate hope of improving human life.



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www.ant-neuro.com/products/cognitrace

Your local distributor