30 years
ADVANCING BEHAVIORAL RESEARCH SINCE 1989

Innovative solutions for healthcare research

Powerful software tools, fully integrated labs, and expert consultancy.
Trust our 30 years of experience to make your project a success.

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Noldus
Information Technology

Viso

- *Highly scalable solution for simulation training*
- *Recording, annotation, and debriefing*
- *Remote viewing and recording*
- *Fast and easy video feedback after recording*

With Viso® you can create synchronized recordings of video, audio, and computer screens in multiple rooms at once. It creates the perfect set up for your training, operating, or therapy rooms, since you can follow your trainees or test subjects through multiple rooms. Videos, including markers and comments, can be viewed both in real-time and during debriefing from any location. You can view sessions remotely,

which allows you to follow the sessions from any location on any device. With Viso, gain the insights you need in teamwork, human performance, and communication. Viso is also available as a compact and complete portable lab.

The Observer XT

- *Behavioral observations live or from video*
- *Analyze doctor-patient interaction*
- *Collect, integrate, analyze, and manage data*
- *Validate and quantify medsim data*

The Observer® XT is the most powerful software tool for behavioral observation and video analysis, used by more than 20,000 research professionals worldwide. It facilitates easy integration of video, audio, eye tracking, physiology, spatial behavior, and emotions for extensive analysis. Its additional modules allow you to adapt this tool to your research needs. Analyze, identify, and evaluate communication patterns and team performance

with The Observer XT. Let The Observer XT help you to keep innovating, advance your practical learning, and improve your team trainings in order to enhance the quality of care and patient safety.

FaceReader

- *Gain insight into people's emotional response*
- *Visualize expressions, valence, and arousal*
- *Create custom expressions like embarrasment and pain*
- *Benefit from advanced analysis and reporting*

Examining non-verbal behavior during doctor-patient inter-actions or gaining more insights into psychiatric disorders are a few examples in which the analysis of facial expressions can benefit your research. To gain insight into emotional responses, FaceReader™ is the ideal tool. It analyzes the face and reports on facial expressions: happy, sad, scared, disgusted, surprised, angry, contempt, and neutral. Alternatively, design your own
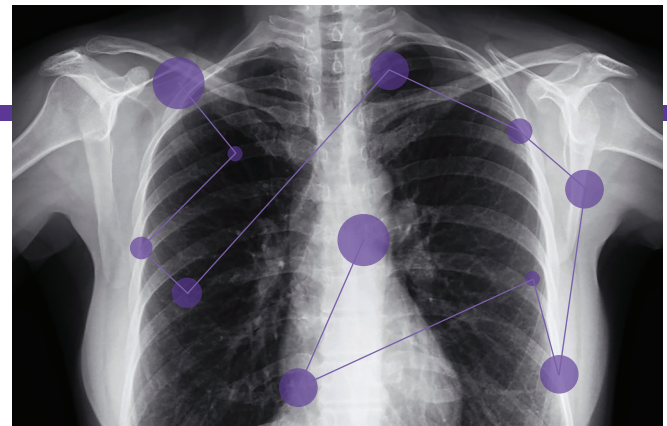

EXPRESSION INTENSITY

Neutral
Happy
Sad
Angry
Surprised
Scared
Disgusted
Contempt

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custom expressions, such as pain, workload, or shame. The soft-ware immediately analyzes your data. Facial expressions can be visualized as bar graphs, in a pie chart, and as a continuous signal.

Eye tracking & Physiology

- *See where your trainee is looking*
- *Detect workload and stress*
- *Study the interplay of events, physiology, and behavior*
- *Add substantial power to your lab set up*

Eye trackers produce data related to attention and emotion. Eye trackers are available in multiple formats: as glasses, stationary, or mobile units, each with unique benefits. Physio-logical recording hardware allows for acquisition of heart rate, blood pressure, skin conductance, and more. Adding these data streams, together with tagged events and video, can provide information that will help you to further understand and explain

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the behavior of the trainee. The key to understanding these processes is precise integration. The Observer XT provides that level of synchronization, both before and after data collection, saving valuable time and ensuring data quality.

Simulation Labs

- *Safe and controlled environment*
- *Integration of multiple tools*
- *Provide feedback on skills and practices*
- *Powerful and easy-to-use test instruments*

Allow learners an opportunity to put theory into practice in a safe and controlled environment. With a simulation lab, protocols and/or high-tech tools and scenarios can be tested. A variety of data streams such as information from movement sensors, physiological data, eye tracking data, and more can easily be integrated into your custom Noldus simulation lab. This combination of data will provide you with essential information

to further understand and explain your trainees' behaviors. From developing communication skills, to caring for complex critically ill infants and adults, these scenarios will help prepare trainees and ultimately improve patient safety.

Portable Lab

- *On-site video and audio recording of behavior*
- *Easy portability for team training*
- *Complete and compact*
- *Quick set-up in any environment*

With our compact portable lab, assess scenarios live and on-site including facilities such as the OR, consultation room, or any other facility. The lab weighs less than 11 kg (25 lbs) and is built into a rugged, wheeled carrying case. It contains all equipment needed to make live behavioral recordings in any context. With all components labeled and ready for assembly, be ready to record quickly once you've arrived onsite, and save valuable time.

A Noldus portable lab is built on a modular platform; it can even be extended with additional third party hardware such as an eye tracker or a heart rate monitor for an even more thorough data collection session.

TrackLab

- *Gain insight into spatial behavior*
- *Work with any number of subjects*
- *Save time with automated data collection*
- *Easily access, analyze and visualize data*

Where do staff go once they enter a room? How direct are their chosen routes? How much time does a nurse spend at the hand-washing station or near the patient's bed? TrackLab™ is the user-friendly tool that will answer these questions by recording and analyzing spatial behavior. TrackLab allows you to work with multiple participants in any spatial context. Using the software, you can automatically track staff members while they carry out

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activities in a room. Data can be analyzed real-time or played back along with the parameters of your choice. Gain insights in individual or group behavior and visualize your results with different types of heatmaps.

MediaRecorder

- *Record up to eight synchronic videos at once*
- *View side-by-side or picture in picture*
- *Save separate or integrated files*
- *Synchronize video with behavioral data*

MediaRecorder enables the synchronous recording of up to eight different videos from any desired combination of cameras, screen capture, multiple audio sources, and more. Videos can be captured using a broad range of cameras, and are compatible with FaceReader and The Observer XT for further analysis. You can easily switch between different cameras and control them with your keyboard, mouse, or joystick. With IP cameras, mouse

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control over pan-tilt-zoom allows for precise camera positioning. Real-time or offline, view videos side-by-side, or use picture in picture. MediaRecorder is ideal for one or two room labs, whereas Viso fits best for multi-room recording.

Services

- *Customized training courses*
- *Behavioral coding services*
- *Rent a system or software license*
- *Protect your investment with NoldusCare*

Noldus offers a wide range of services, from our consulting services and training, to rentals and NoldusCare. Our consultants can advise on how to perform your research in the most efficient and effective way. You can also outsource your video coding work, or ask our experts to analyze already-collected data. For short-term projects you can easily rent equipment and software, or schedule a training course for your group.

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With NoldusCare you receive all software upgrades, technical support, and warranties on Noldus hardware. This service gives you peace of mind, guaranteed project quality and continuity, and protects your investment for the long-term.

Noldus Information Technology

- *Leading in behavioral observation and analysis systems*
- *User centered design*
- *30 years of product innovation*
- *Worldwide service, support, and expert advice*

Noldus Information Technology has offices in nine different countries and is represented by eleven distributors worldwide. With this global team, Noldus develops innovative solutions for behavioral research. These can vary from industry standard software packages and lab equipment to fully integrated labs including on-site installation, training, and support. With 30 years of experience, we translate your questions into practical

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and proven solutions. Our consultants have advanced degrees in the behavioral sciences, which provides a unique ability to uncover behavioral patterns and turn them into actionable results.