

moni::tool™

A true software revolution  
that will change the face of  
water monitoring.



User | Raw Water Intake

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s::can

# moni::tool™

moni::tool is a revolutionary new platform for the management for an almost unlimited number of stations, online sensors, analysers and parameters. The system is robust enough to be operated at unmanned sites and simple enough to be operated by untrained field staff.

- The most powerful software for sensor- and data-management you have ever seen
- A fully integrated, purpose built package that will satisfy all your needs with online monitoring and data management
- Open platform talks to any sensor type and -make, ideal to bring quality into your existing monitoring stations
- Station and sensor management for 100% transparent documentation
- QAQC: Lab quality standards for compliance monitoring
- Real-time data validation reliable as never seen before
- The best event detection software available today
- Automatic reporting tools according to international standards
- And the best: As simple to use as a modern smart phone.

... turning data into information



## Highlights

- **Management** for an almost unlimited number of stations, sensors and parameters, both locally and centrally.
- Can be used in a **small monitoring station as well as in the heart of a large central data collection system**
- **Intuitive touch interface** using a modern user-friendly approach similar to cell phones and PDAs
- **Hardware independent**, sensors and stations can be accessed from any suitable device that is connected to the internet, can be run from any web browser e.g. PC, Notebook, PDA, i-Phone
- **Impressive real-time zoomable, scrollable graphical visualization** of all historical data including 3D-optical spectra
- **Self-training & autonomous operation**
- **Minimal user input necessary**
- **Few input options = few input mistakes**
- **Automatic recognition of all s::can sensors**, drag and drop configuration of any sensors known to the system
- **Tools, devices and protocols** can easily be integrated or customized at any time
- Any parameter input of any type of sensor or other information can be fed in, managed and analyzed in **real time**
- Quality controlled and documented management of sensors and stations that can **eliminate the need for paper log books**
- **Data Integration** into any modern data exchange system
- **Local database** for collection and management of all incoming data
- **Data Validation** using the highest performance sensor and data validation routines available today
- **Event Detection** using the best event detection system available today. Can distinguish sensor / application problems from real events

## vali::tool Data Validation

- Provides self-adaptive, self-controlled data validation in real time
- Analyzes noise, drift, outliers, steps and other combinations in real time to reliably detect any malfunction at an early stage

## ana::tool Event Detection

- Unmatched event detection tools based on proven algorithms for real-time event detection that use data streams from all connected sensors separately and in combination
- The only software developed by the market leader to be specifically capable of exploiting the enormous information contained in UV spectra which provide the most sensitive and stable data source for event detection
- Applies a variety of algorithms during real-time analysis of data and automatically weights the results as appropriate. So far the only one commercial software package that was tested and found suitable by US-EPA water security division. Already running in a large number of water security applications in the USA, and actively protecting many drinking water systems.
- All event information is automatically aggregated into a "traffic light" output and a "% deviation from normal" output


## repo::tool Data Management and Reporting

- All data and information is logged in the local data base, which can easily be kept synchronized with a central data base
- A wide range of data recorded including including user access, user input, maintenance activity, configuration changes and events
- Provides the basis for quality assurance and quality control
- Real-time and off-line reports, including reports on general function and events, data quality, sensor performance in a customized user-defined format to comply with local practice



## Water Quality OnLine

s::can is the only firm in the world that has given its heart and soul to online water quality monitoring. Since our foundation 10 years ago, nothing else has come out of our development department, nothing else has come out of our production sites.



Today our product range covers an absolutely state of the art measuring instrument for each individual parameter for typical applications in the areas of water, waste water, environmental monitoring, and industrial applications. Whether it is a simple pH sensor or a complex spectral probe, s::can measuring instruments are intelligent and compatible with each other in s::can systems and with third-party systems.

Organically developed, constantly tried and tested, and often proven: Optical works best. It doesn't matter whether it is COD, TOC, N03, N02, TSS, turbidity, dissolved oxygen, or many others besides. Whenever an optical method is available, we use it; when not, we develop one. Optical methods are the most reliable, the simplest, have the lowest cost, and, above all, they are usually the most accurate. If ever a measurement is impossible by optical methods, then we just use the best alternative method that comes closest to our focus.

We are proud of having created all this in less than 10 years and also to have set new standards in water monitoring along the way. For example, in 2000 when we brought our first spectro::lyser™ to the market we established online UV spectrometry in sensor format in the marketplace years ahead of the competition. Today, with well over 2000 systems sold, we are the undisputed global market leader in this segment and can continue to call ourselves the technological leader.

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