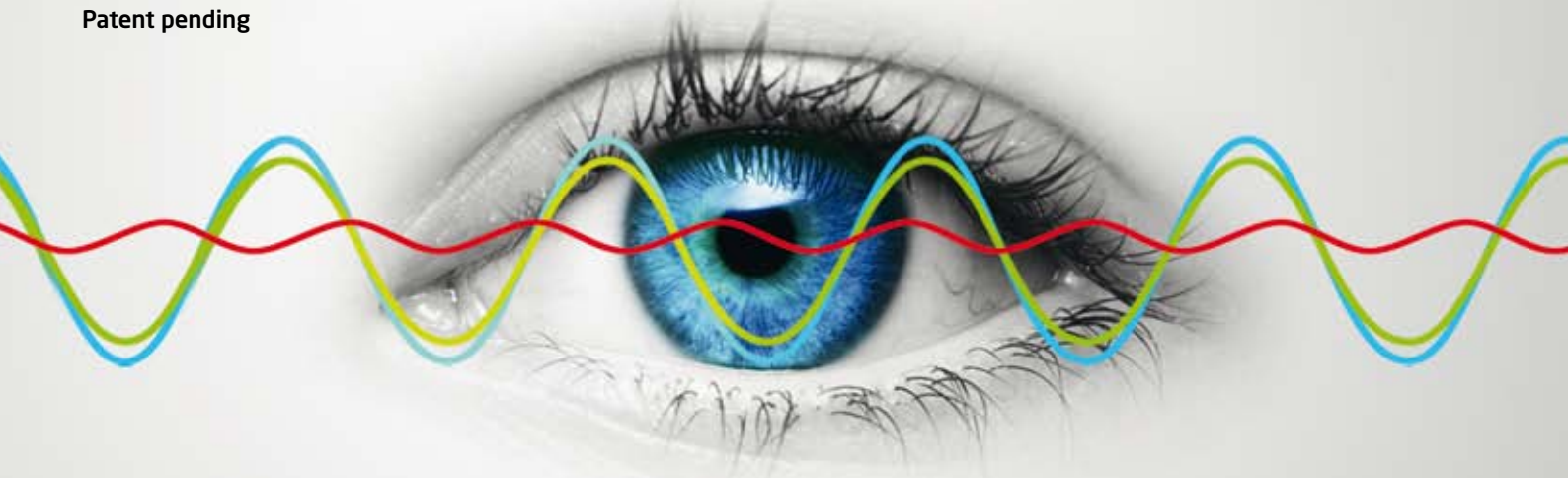


Vötsch

a schunk company

New - SIMPATI* TimeLabs
Visual Documentation of
Test Sequences

Patent pending



Pictures

speaking louder than 1000
measurements

SIMPATI* TimeLabs

Test equipment with visual perception

Test items placed in our temperature and climatic test chambers are subjected to thermal and mechanical stress during test sequences. The visual damage recorded and the data collected allow valuable conclusions to be drawn regarding the test material and its properties. Sometimes the exact timing of a material change can be difficult to define but this problem can be resolved with the new, patent pending visual documentation system SIMPATI* TimeLabs.

Never miss a moment

Adding and correlating to the conventional recording of measurement data of temperature, humidity and time, digital camera images are recorded by software over a defined period of time and logged in the same archive file as the measurement data. The combined evaluation of the measurement data and images over time will bring about new and valuable information, in particular with respect to the timing on an event.



Potential application areas

- ✓ **Electronics**
 - Functional impairments
 - LED/LCD display reactions
- ✓ **Mechanics/motion**
 - Fan standstill
 - Flap operation
 - Valve operation
- ✓ **Thawing**
 - Surface condensation
 - Moisture build-up
- ✓ **Corrosion**
 - Process progress
- ✓ **Liquid level**
 - Changes to fill level
- ✓ **Temperature**
 - Progress
- ✓ **And much more**



Individual setup

It does not matter what type of Camera the images come from or by what interface they reach the computer.

Whether smart phone or laptop camera, endoscope, microscope, webcam or thermal imaging camera - all digital and even analogue cameras (via digitalisation) can be used to capture measured data.

The perfect documentation via video surveillance – each process is traceable to the second

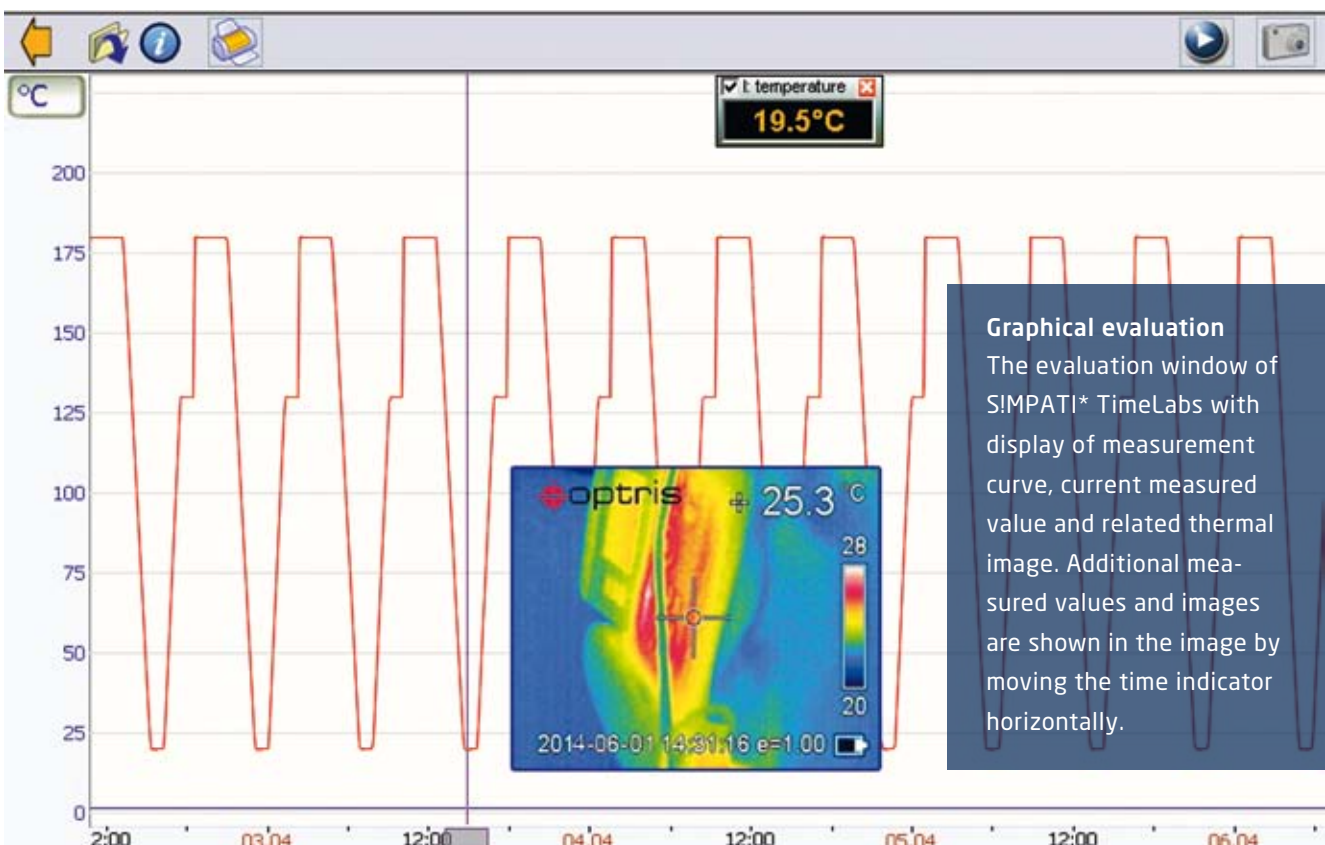
It's as easy as ever. Once the test sequence is completed, all of the data is available in slow motion and in fast motion in a clear and intuitive display.

Innovative operating concept

When evaluating images and measured data, the user can look through a series of captured images in "fast motion" on a graphic timeline in just a few seconds. The user can also view frame by frame with greater precision by using an automatic slow motion function. This saves time compared to looking in a traditional video stream. Viewing of measured data and images simultaneously and second-by-second is a huge advantage and only possible with SIMPATI* TimeLabs.

SIMPATI* TimeLabs

- + View the test subject during the test phase.
- + New and unique in application and flexibility.
- + Data-protected documentation of test sequences adds security to your production.
- + Easy installation and operation.
- + Simultaneous documentation of images and measured data.
- + Up to 1,500 images can be stored in each archive and file.
- + Compatible with up to 6 HD-quality cameras.
- + Thermal imaging cameras can be operated jointly.
- + Upgradeable even in existing systems.
- + Internal and external installation of camera possible at any time.
- + Patent pending!



Vötsch Industrietechnik GmbH ...

Since 1929 the name Vötsch stands for temperature and climate testing systems. Today, Vötsch is one of the most renowned manufacturers of systems for environmental simulation and heat technology. Not only temperature and humidity but also extreme stress, e.g. rapid changing temperature rates, vibration, influence of corrosion, air pollution, light rays etc. can be simulated in Vötsch systems.

A highly sophisticated standard range and tailor-made systems for special testing processes complement one another.

Vötsch Industrietechnik GmbH is certified according to DIN EN ISO 9001.

Since 1995, Vötsch has been a member of the Schunk Group. Combined know-how is the basis for trendsetting developments.

Vötsch Industrietechnik GmbH

Product Range Environmental Simulation

Beethovenstraße 34

72336 Balingen-Frommern

Germany

Phone +49 7433 303-0

Fax +49 7433 303-4112

info@v-it.com

www.voetsch.de