

A picture is worth a  
1000 measurements.

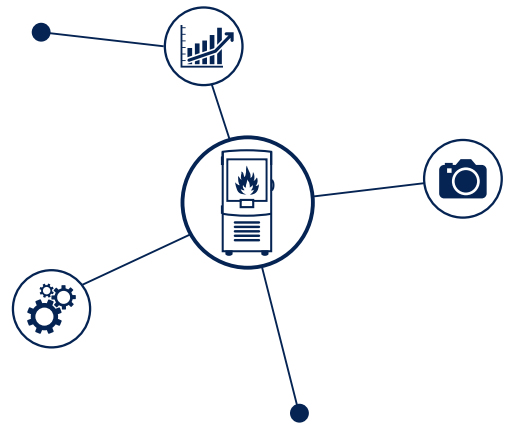


### Image recording and camera system S!MPATI time labs.

Visual monitoring of the test space during temperature and climate tests require the selection of a suitable camera system and the linking of the camera images with the test sequence and test parameters. Test protocols should document the condition of the test specimens, especially in the critical phases of the test runs. Images enable a clearer description than texts.

In principle, camera systems can be used outside and inside the test room, and image recording is controlled by the control software of the test chamber. The Software Module S!MPATI time labs imbeds cameras in the test cycle and integrates images into the evaluation of the test parameters.

# Camera images and test parameters in one evaluation.



Better documentation with **SIMPATI** time labs.

With the Software Module **SIMPATI time labs**, images from a camera are retrieved and recorded. **SIMPATI** measurement data and images are recorded simultaneously and correlated with the evaluation software included in **SIMPATI**. The recording rate can be set (from one image every 5 seconds). Up to 1500 images are stored in a Windows directory.

For use in the test room, a camera is available in which lens and electronics are separated. The temperature-sensitive evaluation unit remains outside the test room. The lens module is mounted in a stainless steel housing in the test room and flushed with compressed air during climatic tests to prevent condensation. Thus, tests between  $-40$  to  $+80$  °C and 10 to 95 % relative humidity are possible.

The evaluation unit is mounted on the terminal box supplied and connected to the camera housing by means of a 3-metre data cable. Data exchange takes place via the data cable.

The control and adjustment of the images and image formats is possible with a browser. This is also where the live image of the camera is displayed. For good images, the light in the test room must be switched on (camera has no infrared function). The sharpness is set manually on the camera lens.

The camera can be integrated into an existing network or connected to a separate PC.



## Highlights:

- Camera temperature range  $-40$  to  $+80$  °C
- Climatic tests up to 95 % RH possible by compressed air flushing
- Camera with separate lens and evaluation unit
- Integration in **SIMPATI** via existing network or single PC
- Lens module 70 mm diameter, 90 mm length

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Illustrations may contain options.  
Subject to technical changes.