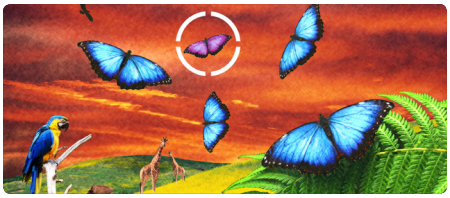

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# Scorpion Vision Software®
# Laser Profile Measurement System

Scorpion Laser Profile Measurement System is a single camera 3D measurement system dedicated to the verification of object geometry and dimensions.

If the object is in motion, the system requires the object to travel at a fixed distance from the sensor during measurement.

A junction box containing the camera and laser is placed about 60 mm from the object. A 7 mW diode laser with line optics illuminates the object, thus tracing a line corresponding to the cross section of the object. The camera is mounted at an angle to the object in order to minimize sensitivity to lateral movement.

*Junction box installed*

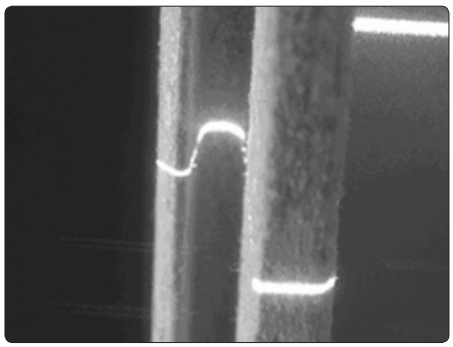
Using a combination of image processing tools available in Scorpion Vision Software, it is possible to verify the geometry with 0.1 mm precision.

## System Description

The Scorpion Laser Profile Measurement system consists of the following parts:

- Junction box containing camera and laser.
- Firewire Interface card
- RealVNC for remote operation
- Scorpion Vision Software CD and a license key
- Scorpion Laser Profile Measurement Profile

The system is connected to a Personal Computer with a firewire cable. The system can communicate with external systems using RS232, OPC and TCP/IP by sending start and stop, status and measurement data.



*The example above shows the laser profile generated by the edge of a Medium Density Particle board.*

## Scorpion Laser Profile Measurement profile

The Laser Profile Measurement profile is contained in a zip file for quick support through e-mail and internet.

*Scorpion Laser Profile Measurement System installation*

## Scorpion Vision Software CD

Scorpion Vision Software is distributed on a CD with the following contents: Scorpion Vision Software, system requirements, Scorpion setup program, camera drivers, and documentation and support programs.


*Scorpion Vision Software CD*

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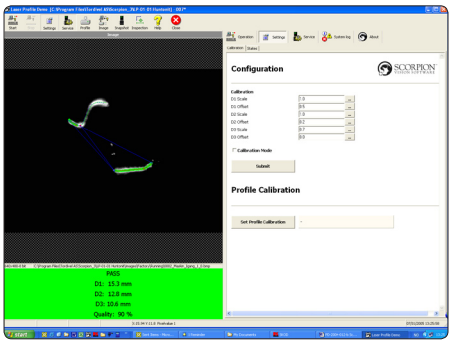



*Scorpion Laser Profile Measurement System User Interface*

## User Interface

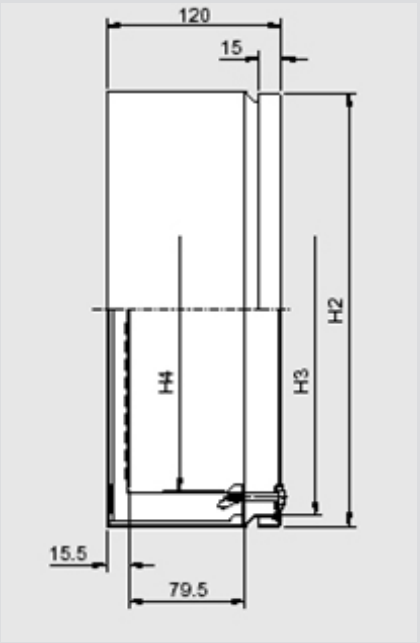
The following information is available in the user interface:

- Camera image
- Inspection result with indicator panels
- Description - Web page that contains a short description of the identification task
- History - displays the latest inspection results
- Curves - give a graphical view of measured values
- Results - show measured values of the latest inspection
- Statistics - give a periodical view of the inspection results

## Technical Data

### Junction Box System

- Rittal Junction Box with mounting plate
  - o Width 150 mm
  - o Height (H2) 150 mm
  - o Depth 120 mm




### Camera System

- Monochrome Firewire Camera, VGA mounted at 30 degrees to the laser plane.
- 4,5 m FireWire cable
- Unibrain Fireboard Red IEEE-1394 Interface card

### Software

- Scorpion Vision Software
- Scorpion Laser Profile Measurement system profile
- Scorpion Setup program
- Camera drivers
- Support programs

### Laser System

- Laser, 7 mW, with 30 degree fan angle line optics
- Power Supply, 5Volt

### Communication

- RS232 - PLC
- TCP/IP
- OPC including Siemens Profibus
- Advantech IO Modules
  - o RS485
  - o TCP/IP

### Data Export

- Number
- TCP/IP
- RS-232

### Remote Operation

- RealVNC over tcp/ip

### Operating System

- Windows 2000 / Windows XP

### Minimum Requirements

- Intel Pentium III 800 MHz
- 128 MB of RAM
- 10 MB free hard drive space

### Language Support

- English

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*Specifications might change without any notification.*