

EAGLE.view™

3D CMM Laser Scanner

The EAGLE.view™ is a highly precise and fast 3D laser scanner with outstanding performance and measuring results. The laser scans components into a highly accurate point cloud, the recorded data can be used directly in the application software without any manual adjustments. Based on this detailed and accurate point clouds three-dimensional models can be easily created.



HIGHLIGHTS

- . Extremely fast - high point density
- . High dynamic range on complex surfaces
- . Comprehensive point capturing
- . Complete, fast and efficient 3D digitization
- . High measurement accuracy
- . Real-time data acquisition
- . Scanning of different surfaces and materials
- . Automated calibration routines
- . Compact design

TECHNICAL DATA

Measurement depth	+ / - 50 mm
Scan width	up to 125 mm
Mean working distances	150 mm
Scan frequency	up to 200 Hz
Sensor weight	390 g
Sensor dimensions	134 x 124 x 63 mm
Standard cable length scanner-PC	10 m
Protection	IP40
Laser type	Diode
Wavelength	670 nm
Laser class	2 M

REQUIREMENTS

» PANTEC.CMM SERVER

Open interface between controller and software based on I++

Features:

- . Standard interface to application host software (compatible I++ 2.0 Optical)
- . Calibration routines for reference sphere out of five scanning tracks
- . Laser scanner measurement methods for multi-shot mode
- . Tool management (calibration, specific tooling parameters)
- . Axes linear temperature / Geometrical compensation (Linearity, Squareness, Pitch, Yaw, Roll, Horizontal Arm)
- . Coordinate systems management

» SYSTEM PC I HARDWARE

- . Windows 7 / 8 (32 bits or 64 bits) standard requirements
- . Ethernet network card (Pantec controller communication)
- . Optional RS-232 COM port (Probe head communication)
- . Optional: T-Bus (Temperature sensor)

» SOFTWARE

The Pantec.CMM Server has a standard interface based on I++ and is thus able to support different well established CM softwares.

APPLICATIONS

- . Metrology / 3D measurement
- . Quality control / Inspection
 - Comparison to CAD data
 - Non contact 3D inspection
- . Mold and toolmaking
- . Scanning of design models
- . Rapid prototyping
- . Reverse engineering
- . Medical implants



Pantec Metrology, located in Ruggell, Liechtenstein, develops technologies that make CMM and vision systems more competitive. With an installed base of more than 12,000 CMM controllers worldwide, the company plays a leading role in the field of CMM machine control. Pantec Metrology is a Business Unit of Pantec Engineering AG.

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Pantec Engineering AG provides solutions in automation and mechatronics for the mechanical engineering and medical device industries worldwide. Through its rigorous focus on niche strategies and high degree of service orientation, the company has become a world leader in its five primary markets.

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