perceptron

V7 CMM 3D Laser Scanner

Perceptron is once again disrupting the CMM scanning market by releasing its new V7 sensor. Following in the footsteps of the Perceptron V Series reputation, the V7 is built using cutting edge technology including the use of blue laser at a price lower than the competition.

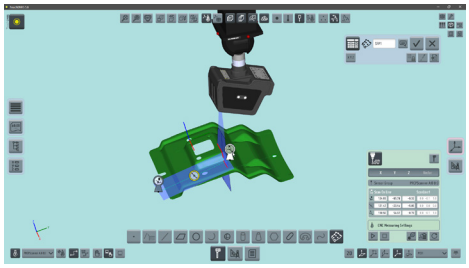
V7

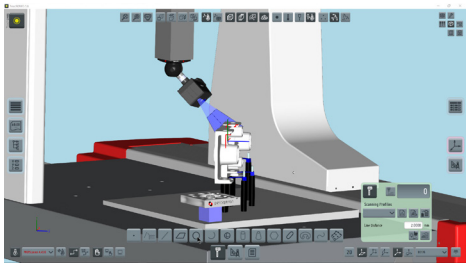
3D Laser Scanning Sensor for Coordinate Measuring Machines

Laser scanning on CMMs has never been easier or more affordable. The V7 scanner offers high quality scanning at an affordable price to maximize the use of your Coord3 coordinate measuring machine. This versatile 3D scanning tool enables reverse engineering, point cloud-to-CAD comparison, 3D visualization and inspection applications.

Key features and benefits:

- Speed - A maximum of 1,280 points along the laser line at a rate up to 50Hz provides high-density scan data.
- Dynamic Range - The V7 sensor blue laser captures accurate data on dark and reflective surfaces without the need for harmful white powder sprays and paints.
- Field of View - Having a maximum width and depth of field of 88mm and 100mm, respectively, enables the capture of large, geometrically complex areas.
- Real-time integration - Direct integration with easy-to-use TouchDMIS software allows the user to scan within a familiar interface.





Sensor Specifications

Length	114.26mm
Height	112.65mm
Width	65mm
Weight	456g
Operating Temperature	10°C to 40°C
Communications	GiGE Ethernet
Laser Class	2M
Laser Wavelength	450nm (Blue)
Certification	CE, (UL Listed Power Supply - File E210311)
Safety	IEC 60825-1 (2014) EN 60825-1 (2014) This product complies with 21CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

Potection	IP54
Standoff	67mm (+/- 2mm)
Depth of Field	100mm (+/- 2mm)
Near Field Width	48mm (+/- 2mm)
Far Field Width	88mm (+/- 4mm)
Mean Point Resolution	≤40µm at mid field
Points per Line	1280
Scan Rate	Up to 62,000 points per second
Update Frequency	Up to 50Hz

All specifications listed in this datasheet are subject to change without notice.