

ScanWorks™ V5

from

perceptron
the focus on process



The ScanWorks™ portable scanning system combines the ease-of-use of portable CMM arms with the sophistication of Perceptron's scanning technology. The new V5 is the fastest point-collection system on the market, collecting data at 458,000 points per second with a laser bandwidth

of 150mm. This combined with its twin camera technology means the V5 can see two sides of an object at once. The ScanWorks™ V5 sensor uses solid-state, non-contact laser-based technology. Using triangulation, it captures profiles generated by the intersection of a

projected laser plane and the target topography. For each profile, the arm position is used to translate the profile data into a common coordinate frame. Once translated, the profile is married with the other profiles to produce digital 3D topography.



ScanWorks™ V5

Dimensions	115mm x 100mm x 80mm
Mass	438g
Profile density	7640 points/line
Update frequency	60Hz
Scan rate	458400 points/second
Mean point to point resolution	0.0137
Stand-off	100mm
Depth of field	110mm
Near field width	93mm
Mid field width	105mm
Far field width	140mm
Measurement accuracy 1)	0.0240mm 2σ corner test
Feature resolution 2)	0.0045mm 2σ sphere test
Sensor feature repeatability 2)	0.0050mm 2σ sphere test
Safety	Class IIIm, 660nM Laser
Certifications	UL, CSA, CE
Environmental	10°C to 40°C
Protection	Sensor IP64/Enclosure IP31

1) NIST standard
 2) OSIS standard
 Perceptron is registered to ISO9001:2000 standards
 Specifications subject to change without notice



Above: The new V5 is attached to a Cimcore arm and scans the automotive part at 458,000 points per second with a laser bandwidth of 150mm.

Below: The resulting data for the scanned area is realised in PolyWorks and shows a full gap and flush analysis.

