

3D Measurement & Inspection System

- 3D measurement without reference targets
- Projection of 3D contours for assembly aid
- Target-actual comparison between CAD data and workpiece
- Display of target-actual differences through laser projection
- Control of assembly and projection of false installed parts



Housing	Dimensions L/W/H in mm	1308 x 324 x 171 (incl. cameras)
	Protection class	IP 65
	Weight	18kg incl. external power supply
Voltage (external power supply)	Input voltage	24VDC ±5%
	Power consumption	In operation: max. 100W
Data transfer	Type of connection	Ethernet
	Projector	Ethernet TP, 100 Base TX
	Camera	2x GigE
	Software	Z3D; GEOMAGIC® optional
	Format of graphics: Import	HPGL, STL, others optional
	Format of graphics: Export	Point cloud ASCII / STL
Laser	Laser source red	638nm
	Laser source blue (optional)	450nm
	Output power	7mW nominal (on request up to 40mW → laser class 3B)
	Laser class	2M (EN 60825-1:2007)
Camera	Resolution	H 2448 x V 2058
	FOV	H 38°, V 32°, others optional
Projection area	Optical fan angle	Max. 60° x 60°
	Refresh rate	50Hz (Reference test image quad.plt) 1m x 1m
	Projection	Arbitrary polygons
Scan volume	For instance at distance 2,7m and 1m basic width	WxDxH: 2m x 1,3m x 1,7m Optional: larger volume
	Resolution	Down to 0,25mm / axis
Conditions for installation	Working temperature	Min. 5°C
	Active cooling	Max. 40°C