

METRONOR SOLO

Single camera electro-optical portable coordinate measuring system

- PORTABLE 3D MEASUREMENTS
- BEST-IN-CLASS PRICE/PERFORMANCE
- LIGHT-WEIGHT 11 KG (24 LBS)
- EXTREMELY EASY TO USE
- LARGE OBJECT MEASUREMENT
- IDEAL FOR ROUGH ENVIRONMENTS

Metronor SOLO is a portable CMM system based on Metronor's patented principle that allows for accurate 3D measurements with just a single camera and a hand held probe. Metronor SOLO offers full CMM capability including comparison of just any geometry to CAD data or blueprint.

Ideally suited where fast set-up, ease of use and high portability is critical, Metronor SOLO offers a superior working volume and can be operated through a wireless connection- without cumbersome arms to balance or cables to untangle.

Highly affordable, Metronor SOLO provides excellent return on investment in industries as diverse as automotive, forging, machining, casting, energy and aerospace – as well as in numerous special applications such as high-radiation nuclear power plant maintenance or custom-fit boat decks.

While highly capable on its own, Metronor SOLO is also a very flexible investment and a wide range of options and upgrade paths are offered, permitting SOLO to grow along with future requirements or needs.



APPLICATIONS INCLUDE:

- Prototyping
- Tool and die inspection
- Tube & pipe measurement
- In-process inspection
- On-machine inspection
- Fixture inspection
- As built documentation
- Large assembly measurement
- Assembly alignment
- Excess material verification in casting/forging
- On-machine alignment of parts for milling/ machining
- Tool building
- Reverse engineering

For more information: www.metronor.com



Technical Specifications METRONOR SOLO

PERFORMANCE SPECIFICATIONS

Range	Distance From Sensors	1.5 to 25 m (5 to 80')
Measurement Volume	2000 m ³	70.000 ft ³
Accuracy Small volume - 3D	±0.12 [mm]	Volume up to 1.5 x 1.5 x 1.5 m ³
		Accuracy of 3D length
		2 sigma (U95)
Accuracy Casting volume - 3D	±0.20 [mm]	Volume up to 3.0 x 3.0 x 3.0 m ³
		Accuracy of 3D length (typical)
Accuracy Profile Measurements	±0.16 [mm] (5 m from camera)	600mm wide profile orthogonal to camera optical axis
	±0.21 [mm] (10 m from camera)	2 sigma (U95)
	±0.43 [mm] (20 m from camera)	
Accuracy Parallelism	±0.0033 [deg]	Parallelism between 2 planes, 1000 mm size
		2 sigma (U95)
Accuracy Planarity	±0.06 [mm]	Planarity of single plane, size 2x2m ²
		2 sigma (U95)

HARDWARE SPECIFICATIONS

Environment	Operating Temperature	10 to 45°C (50 to 113°F)
	Storage Temperature	-25 to 65°C (-13 to 150°F)
	Operating Humidity	< 95% relative humidity, non-condensing
	Pressure, Humidity, Temperature	No effect on measurement accuracy
	Vibration Stability Control (option)	0 - 100 Hz, < 3 mm amplitude
	No Warm-up	
Electrical Power	Auto Switching	100-240 V AC, 50-60 Hz
	(Battery operation optional)	
Packaging	System Weight (excl. case)	11 kg (24 lbs)
	Shipping Weight	24 kg (53 lbs)
Computing Unit	Туре	Laptop, Windows 10 Professional 64 bit
Sensor Unit (1 incl.)	Туре	CCD-based digital camera
	Optical Settings	Fixed aperture and focus, factory optimized
	Field of View	38° x 32°
	Effective Resolution	640.000 x 512.000
	Unit Net Weight	0.80 kg (2 lbs)
Probing Unit	Туре	Wireless Handheld, with quick-change styli
	Material	Carbon fibre w/embedded active targets
	Styli Included	User configurable set of 7 w/ titanium extensions/angles
	Styli Type	Ruby spheres (incl.), scribe tip (incl.), edge styli (opt.)
	Hidden Point Capability	600 mm (24") - longer with optional probes
	Unit Net Weight	0.52 kg (1.2 lbs)