

# Metronor One

*Single camera electro-optical portable coordinate measuring system*

- BEST-IN-CLASS PRICE/PERFORMANCE
- EXCEPTIONALLY EASY TO USE
- 2.5X2.5X2.5M REAL VOLUME MEASUREMENT
- LIFE-LONG ACCURACY
- HANDHELD WIRELESS PROBE - 600G (1.3LBS)
- STICKER-FREE TECHNOLOGY
- LIGHTWEIGHT - 10KG (22LBS) TOTAL



Metronor One is a portable CMM that uses electro-optics and photogrammetry (the science of precisely determining the location of items based on images) for accurately calculating where the handheld probe (called Lightpen) is located – both in terms of position and orientation.

The advantages? The measuring process is fast and reliable – with no linkages or moving parts, accuracy is secured for life. Just take Metronor One out of its box, turn the PC and Lightpen on, place the camera on the tripod and start measuring. Your system arrives ready to use – software, laptop and all necessary parts are included.

The handheld Lightpen is battery operated, wireless and light, making it comfortable to use also for long periods of time. And unlike articulated arms, there are no joints and movement restrictions to cause operator fatigue.

And when the time for expansion comes, you can upgrade Metronor One to other systems with larger volume without losing your initial investment.

## APPLICATIONS INCLUDE:

- Prototyping
- Tool and die inspection
- Tube & pipe measurement
- In-process inspection
- On-machine inspection
- Fixture inspection
- As-built documentation
- Assembly alignment
- Tool building
- Reverse engineering

For more information: [www.metronor.com](http://www.metronor.com)

## Technical Specifications

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### PERFORMANCE SPECIFICATIONS

<b>Measurement Volume</b>	15m <sup>3</sup>	552ft <sup>3</sup>
<b>Accuracy 3D Length</b>	±0.08mm	Accuracy of 3D length 2 sigma (U95)
<b>Accuracy Parallelism</b>	±0.0025deg	Parallelism between 2 planes, 600mm size 2 sigma (U95)
<b>Accuracy Planarity</b>	±0.025mm	Planarity of single plane, size 0.6x0.6m <sup>2</sup> 2 sigma (U95)

### HARDWARE SPECIFICATIONS

<b>Environment</b>	Operating Temperature	10 to 45°C (32 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)	0-100Hz, <3mm amplitude
	No warm-up	
<b>Electrical Power</b>	Auto switching (Battery operation optional)	100-240V AC, 50-60Hz
<b>Packaging</b>	System weight (excl. cases)	10kg (22lbs)
	Shipping weight	18kg (40lbs)
<b>Computing Unit</b>	Type	Laptop, Windows 10 Professional 64 bit
<b>Sensor Unit (1 incl.)</b>	Type	CCD-based digital camera
	Optical settings	Fixed aperture and focus, factory optimized
	Field of View	38°x32°
	Effective Resolution	640.000x512.000
	Unit Net weight	0.80kg (2lbs)
<b>Probing Unit</b>	Type	Wireless Handheld, with quick-change styli
	Material	Carbon fibre w/embedded active targets
	Styli	25mm and 125mm included, other lengths optional
	Styli type	5mm ruby sphere
	Unit Net weight	600g (1.3lbs)