

METRONOR DUO

*Dual camera electro-optical
portable coordinate measuring system*

- PORTABLE 3D MEASUREMENTS
- EXTREMELY ACCURATE
- BEST-IN-CLASS PRICE/PERFORMANCE
- EASY TO USE
- LIGHT-WEIGHT - 17 KG (38 LBS)
- IDEAL FOR ROUGH ENVIRONMENTS



Metronor DUO is the top-of-range portable CMM system utilising Metronor's patented principle for electro optical coordinate measurements. Metronor DUO combines large volume and increased accuracy with the widest range of applications.

Extremely portable – the complete systems comes in a single, rollaway transport case weighing only 30 kilos (66 lbs) – Metronor DUO provides high-end coordinate measuring capability anywhere in the production process.

Using two cameras and a hand-held, wireless probe, Metronor DUO provides the capability to study any geometry related issue in detail – compare tools, parts and assemblies to CAD or blue-print, use the LED application kit option to efficiently study stability, deformation and process repeatability, or take the system to the supplier or customer to investigate problems with interfacing parts. Metronor DUO also supports efficient alignment of objects in position and orientation (6 DOF) for example in tool building or jig-less assembly.

Metronor DUO- like all Metronor systems- is designed for use in rough shop floor environments and exhibits industry-leading reliability and availability.

APPLICATIONS INCLUDE:

- Jig-less tooling
- Reverse engineering
- Prototyping
- As built documentation
- Tool and die inspection
- In-process inspection
- On-machine inspection
- Fixture inspection
- Deformation analysis
- Large assembly measurement
- Assembly alignment - in position and orientation
- Excess material verification in casting/forging
- On-machine alignment of parts for milling/ machining
- Process repeatability verification
- Root cause analysis – check tool, parts, variation and interference in single session
- Tool building
- Tool certification

For more information: www.metronor.com

Technical Specifications

METRONOR DUO

PERFORMANCE SPECIFICATIONS

| | | |
|-----------------|-----------------------------------|------------------------|
| Range | Distance from sensors | 1.5- 15 m (5- 50') |
| Accuracy | U95 distance measurement accuracy | +/- 0.025 + L/60000 mm |

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 (Battery operation optional) | 100-240 V AC, 50-60 Hz |
| Packaging | System weight (excl. cases) | 17 kg (38 lbs) |
| | Shipping weight | 30 kg (66 lbs) |
| Computing Unit | Type | Laptop, Windows 10 Professional 64 bit |
| Sensor Unit (2 incl.) | Type | 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 | Type | Wireless Handheld, with quick-change styli |
| | Material | Carbon fibre w/embedded active targets |
| | Styli | 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) |