

TRACKSCAN

*Handheld portable
high-performance scanner*

- LARGE MEASUREMENT VOLUME
- STICKER-FREE TECHNOLOGY
- MULTI-LINE LASER SCANNING
- REAL-TIME DISPLAY OF 3D DATA
- HANDHELD SCANNER
- AUTO-GENERATED 3D TRIANGULAR MESH
- HIGH-SPEED LASER SCANNING

Metronor TrackScan is a complete, handheld 3D metrology solution that combines laser scanning, electro-optical navigation technology, and probing.

TrackScan can quickly capture high-accuracy 3D models in any environment. Its real-time tracking technology is sticker-free, even when measuring large volumes, making it easy to use and very fast to set up. This introduces improved efficiency to the traditional 3D scanning methods.

The base system is comprised of a camera for continuous tracking, a handheld 3D scanner and a laptop with pre-installed software. A simple, handheld probe to measure features can also be included, allowing the measurement of hidden areas and coordinate system alignment. All components are delivered in two portable cases, making TrackScan a mobile system that can perform in any location. The product modularity, a key feature in all Metronor systems, makes upgrading a simple process. Customers can add full CMM probing capability for increased accuracy and larger measurement volume at any time.

Benefiting from the combined state-of-the-art technologies of scanning and tracking, TrackScan offers the obvious advantage in accuracy, measurement range, efficiency and quality.



APPLICATIONS INCLUDE:

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

For more information: www.metronor.com

Technical Specifications

TRACKSCAN

PERFORMANCE SPECIFICATIONS

| | TrackScan SOLO | TrackScan DUO | |
|---|---------------------------------|---------------|--------|
| Measurement Range Distance from scanner to camera | 2.5m to 10m (8.2ft to 33ft) | | |
| Measurement Volume | 153m ³ | | |
| System Accuracy | up to ±0.04mm | up to ±0.03mm | |
| Spatial Accuracy | 2.5m | 0.08mm | 0.04mm |
| | 6m | 0.15mm | 0.08mm |
| | 10m | - | 0.12mm |
| Laser Class | Class II (eye safe) | | |
| Measurement Rate | 215.000 measurements per second | | |
| Scanner Stand-off Distance | 300mm | | |
| Scanner Depth of Field | 250mm | | |
| Output Formats | stl, stp, igs, asc | | |

HARDWARE SPECIFICATIONS

| | | |
|-------------------------|--|--|
| Environment | 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 | |
| Electrical Power | Auto switching (Battery operation optional) | 100-240V AC, 50-60Hz |