



The world leader in advanced metrology solutions

OMNITRAC LASER TRACKING SYSTEM

The Omnitrac™ (OT™) is the newest portable laser station from API. The OT™ features API's new TurboADM system which makes precision measurements, inspections and alignments easier than ever before. Easier to use than a total station and more affordable than a laser tracker, the Omnitrac™ provides the best possible value and performance for your measurement task. In response to customer needs, API started with the rugged and proven mechanical design of our Tracker3™ system and worked to create a lower cost, ADM only system. With the OT™, there is no interferometer with the system to provide on-board verification of ADM performance. API has solved this problem for our customers by providing a scale bar or laser rail for in-field verification of system measurement performance. These two accessories may be used with any tracker in the field to quickly assess system performance in accordance with known standards.

Turbo charge your measurements

Super easy TurboADM only mode makes the job go faster.

User friendly simplicity

Ease of use is the name of the game for the Omnitrac™. With a only 2 simple cables to connect the system it is a snap to set up. Add the Ethernet or wireless connection to the computer and you are off and running before most other instruments are can be taken out of the box.

Robust and durable for any environment

Indoors or out, the Omnitrac™ is designed for harsh industrial use. Completely sealed against particulate matter, the rock solid API engineering allows Omnitrac™ to measure alongside grinding dust, chips, oil electrical noise, and temperature extremes.

Go the distance!

Omnitrac™ features an astounding range of 120 meters (396 feet)! Whether you measure hundreds of feet or just a few, the Omnitrac™ puts your job in range.

Unmatched portability

The Omnitrac™ re-defines instrument portability and measurement flexibility. Weighing only 8.0kg (17.6lbs) and measuring 36cm (14in) in height, it can fit any job. Setup inside a vehicle body or mount the Omnitrac™ upside down from the ceiling, it goes anywhere you need it.

Instant on

Turn the switch, boot the computer and you are ready to measure. The instrument is ready to measure whenever you are. The API Omnitrac™ is one of the most versatile instruments available today. Its high accuracy, ease of use, robust design, and light weight make it a great tool for many applications.

Today, API has customers worldwide using our tracking systems to perform:

- ✓ fixture inspection
- ✓ large assembly measurement
- ✓ machine tool calibration
- ✓ assembly alignment part inspection
- ✓ remote measurement
- ✓ CMM calibration
- ✓ robot calibration
- ✓ reverse engineering
- ✓ fixture building
- ✓ in process inspection
- ✓ tool and die inspection
- ✓ volumetric error compensation
- ✓ antenna alignment

API Laser Tracking Systems have become the standard by which other systems are measured. Today, these systems are



deployed globally in multiple industries where large scale metrology and alignment is necessary.

Some of these industries include:

- ✓ Aerospace
- ✓ Ship Building
- ✓ Construction
- ✓ Tooling
- ✓ Machine Shops

Specifications

Maximum lateral target speed: > 3.0 meters/sec (120"/sec)
Maximum acceleration in all directions: > 2 g

Range of Measurements:

Horizontal: 640° (± 320°)
Vertical: + 80° to - 60°
Measuring Diameter: > 120 meters (400 feet)

Accuracy of 3D Coordinate:

Resolution: 1µm
Accuracy: 10ppm

Environmental

Air Temperature: -10°C to > 40°C (14°F to > 104°F)
Barometric Pressure: 580 mmHg - 800 mmHg
Relative Humidity: 10-92.5% Non-condensing
Altitude: 2000 Meters

Physical Features:

Weight of Instrument: 8.5kg (18.8lbs)
Weight of Controller: 3.2kg (7lbs)
Total Package Weight: 23kg (50lbs)*
*(Includes carrying case, instrument, controller, tools, cable, accessories)