

LASER TRACKER SUSTAINABILITY

Manufactured in the USA, all Radian Laser Trackers are supplied with the standard 2 year parts and labor warranty. API offers all-inclusive tracker calibration and maintenance contracts that also include loaner tracker support and advance reservation calibration program.

Supported globally through subsidiary offices in Europe, China, India, and master reseller partnerships, API offers global support to our customers. We are where you are.

TECHNICAL SPECIFICATIONS

	 CORE	 PLUS	 PRO
Laser Technology	ADM - 3D	ADM - 3D/6D	ADM/IFM – 3D/6D
Maximum Distance Range (Radial)	50m / 80m*	50m / 80m*	20m / 50m / 80m*
Horizontal	±320° (640°)	±320° (640°)	±320° (640°)
Vertical	-59° - +79° (138°)	-59° - +79° (138°)	-59° - +79° (138°)
Data Output Rate	1000 points/sec.	1000 points/sec.	1000 points/sec.
Distance Measurement Performance			
Resolution	0.5 µm	0.5 µm	0.5 µm
Accuracy (MPE)	15µm or 0.7µm/m**	15µm or 0.7µm/m**	15µm or 0.7µm/m**
IFM Accuracy	Not applicable	Not applicable	0.5µm/m
Measurement Performance			
Volumetric Accuracy (MPE)	15µm + 5µm/m	15µm + 5µm/m	10µm + 5µm/m
Precision Level Accuracy	±2 arc seconds	±2 arc seconds	±2 arc seconds
Maximum Radial Velocity	180°/sec	180°/sec	180°/sec
Maximum Radial Acceleration	180°/sec ²	180°/sec ²	180°/sec ²
Auto-Lock Performance			
iVision Field of View	30° (diagonal)	30° (diagonal)	30° (diagonal)
Acquisition Range	2m – 40m	2m – 40m	2m – 40m
Attributes			
Tracker Size	198mm ² x 430mm	198mm ² x 430mm	177mm ² x 355mm
Tracker Weight	10.9 Kg	10.9 kg	9.0 Kg
Controller Size	Integrated	Integrated	110 x 177 x 355mm
Controller Weight	Integrated	Integrated	12.2 Kg
Transport Case	559 x 406 x 254mm	559x406x254mm	610 x 508 x 290mm
Total Transport Weight	22.7 Kg	22.7 kg	28.2 Kg
WiFi	✓	✓	
Ethernet	✓	✓	✓
Laser Emission	Class II IEC60825-1	Class II IEC60825-1	Class II IEC60825-1
Warm-up Time	5 Minutes	5 Minutes	15 Minutes
Power Specifications			
Power Supply Voltage	110/230V ±10%	110/230V ±10%	110/230V ±10%
Power Consumption	60W	60W	100W
Continuous Operation Battery Life	10 Hours***	10 Hours***	
Environmental			
Storage Temperature	-10°C to +45°C	-10°C to +45°C	-10°C to +45°C
Operating Temperature	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C
Relative Humidity	10–95%****	10–95%****	10–95%****
Altitude	-700m to 3000m	-700m to 3000m	-700m to 3000m
Protection Level	IP52*	IP52*	

*optional **Whichever is greater ***Hot Swappable ****Non-condensating