

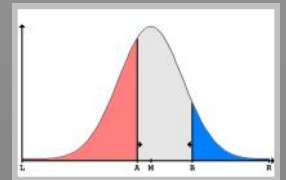
HANDHELD RADAR FOR RAIL APPLICATIONS

"WHEN VERSATILITY COUNTS"



New Railmaster provides superior performance with unmatched features !

- Easy controlling.
- Most accurate speed calculation is based on 0.3 % internal accuracy.
- Automatic cosine angle correction further increases accuracy in challenging measurement conditions.
 - Speed are accurate even in higher vertical measurement angles, when measured downwards from over passes.
- Built in Data Logger with date & time information.
- Upgradable software.
 - New calculation options, functions & interface languages can be added later.
- Optional GPS for saving GPS coordinates with flow, date & time information
- Sealed construction for maximum weather protection.
- IP67 classified computer interface for logged and raw data output.
- Selectable measurement units, Mps, Fps, Kph, Mph and Knots.
- Automatic horizontal & vertical cosine angle correction.
 - Built in tilt sensor detects & correct automatically cosine error caused by vertical angle.
- Powered by Makita .
 - Long operation hours with high quality Li-ion battery system.
 - Batteries widely available in super markets & hardware stores for years to come.



Read more..

VIATRONICS RAILMASTER

The Viatronics Railmaster is extremely accurate Speed Measurement Radar designed specifically to measure slow moving targets like locomotives & rail cars. Unit measures also high-speed trains up to 321 KPH. Railmaster is the only Speed Radar which provides an automatic cosine angle correction by detecting & correcting the measurement results by using built-in tilt sensor.

Railmaster is in it's own league with up to 3 km target detection range as well. The TRG is also all-in-one tool with built-in Data Logger and an optional GPS-module. The TRG's All-In-One design increases productivity by being truly cordless device without any need to attach cords to other devices.

FUNCTIONS

- Built in data logger with automatic date and time information.
- Accurate speed measurement up to 3 km away
- Includes cosine error correction, allowing the unit to compensate for horizontal and vertical angles
- Wide speed range (0.1 – 321 KPH)
- Powered by Makita, Replaceable & rechargeable Li-ion batteries
- Accepts tripod mounting
- User friendly measurement and reading
- Data port for computer.
- Internal cosine error correction, allowing the unit to compensate for vertical angles up to 60 degrees

TECHNICAL SPESIFICATIONS

Measurement Specifications

Minimum Speed	0.1 KPH
Maximum Speed	321 KPH

Measurement Accuracy	± 0.3% - Speeds are rounded down to the nearest tenths of a unit
Range	Up to 3 Km (1.9 Miles)

Mechanical specifications:

Weight	1.5 kg (3.3 lb)
Dimensions	L 19 cm (7.5 in), H 26.4 cm (10.4 in), W 8.6 cm (3.4 in)
Case Material	Die Cast Aluminium & Composite (PVC)

General specifications

Units	KPH (kilometres-per-hour), MPH (miles-per-hour) and Knots, MPS (meters-per-seconds), FPS (feet-per-second),
Horizontal Cosine	0 °- 60 °
Sensitivity setting	0—8

Antenna Parameters

Type	Ka-Band
Nominal Transmission Frequency	34.7 GHz
Nominal Horizontal Beam width	12° (+/- 1°)
Polarization	Circular
Nominal Microwave Power Output	15 mW nominal mW
Maximum Aperture Power Density	1 mW/cm ²

Environment

Ambient Temperatures	-22°F to +158°F, -30°C to +70°C
Maximum Humidity	90% relative humidity at 99°F (37°C non-condensing)

Water resistance meets International Robustness Standard IEC 529:1989 and European Community Standard EN 60529

Voltages

Supply Voltage Range	7.2VDC – 20VDC
Power Supply	replaceable Li-ion batteries, 18V / 1.3Ah

Power Consumption

Standby	0.200 amperes
Antenna ON	0.450 amperes