Trimble Ri

Robotic Total Station

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Key Features

- Level Detection & Monitoring
- Built-in calibration
- Focusing Red Laser EDM
- Trimble Vision technology
- Upgradeable Instrument
- FieldLink Integration

Total Performance

Expanded range and various zoom levels plus new side to side search pattern for quick-lock onto prism, saves time when searching for a target.

Built for Construction

Trimble's most scalable, accurate and automated Robotic Total Station. Easy set-up for faster efficient positioning with minimal training required.

The Trimble Ri is part of the Trimble Portfolio of Building Construction products advancing mixed reality technology through data visualization in the field.

Leverage the XR10 with HoloLens 2, together with FieldLink MR, to view and measure with confidence and precision.



DATASHEET

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Performance		EDM Specifications cont'd	
Accuracy		Diameter	<10 mm @ 100 m (0.4 in/328 ft)
Angle Accuracy		Diameter	< 4 mm @ 40 m (0.16 in/131 ft)
(based on ISO 17123-3)	2" (0.6 mgon) / 3" (0.9 mgon)	General Specifications	
Automatic level compensator		Telescope	
Туре	MEMS, dual-axis, self-leveling	Lens System	Continuous focus
Accuracy	2" (0.6 mgon)	Aperture	32 mm (1.3 in)
Working Range	± 5 gon (± 4,5 °)	Field of view	2 gon – 12 gon (1.8 deg – 11 deg)
Distance measurement		Focusing distance	0.5 m – Infinity (1.7 ft – Infinity)
Accuracy to Reflectors (based on ISO 17123-4)		Crosshair	Digital, superimposed
		Tracklight built in	Red / Green Status LEDs
Standard Tracking	2 mm (0.007 ft) + 2 ppm 3 mm (0.01 ft)	Camera	
Accuracy Reflectorless Mode	2 mm (0.007 ft) + 2 ppm	Resolution of Stream	960 x 540 or 1920 x 1080
Range Reflector Mode ¹¹	2 mm (0.007 ft) + 2 ppm	Resolution of Still Image	1 - 7 m: 1920 x 1080 (2,1 MPx)
Single Prism 50 mm	900 m (2953 ft)		7 - 300 m: 2560 x 1440 (3,7 MPx)
Single Prism 25 mm	400 m (1312 ft)	Environmental	
Cat-Eye Reflector 85 mm	300 m (984 ft)	Operating temperature	–20 °C to +50 °C (–4 °F to +122 °F)
Foil Reflector 60 mm	300 m (984 ft)	Storage temperature	–40 °C to +70 °C (-40°F to +158 °F)
Shortest possible range	1 m (3.3 ft)	Dust and water proofing	IP55
Range Reflectorless Mode ²⁾	(,	Power Supply	
Kodak White (90% reflective)	840 m (2756 ft) / 150 m (492 ft)	Internal battery	Li-Ion, 10.8 V / 6.5Ah
Kodak Gray Card (18% reflective)	375 m (1230 ft) / 150 m (492ft)	Operating time	4.5 hours
Shortest possible range	0.5 m (1.6 ft)	Communications	
		Wireless communication	WLAN, Dual 2.4GHz and 5GHz band,
Robotic Tracking			IEEE 802.11 a/b/g/n/ac
360° Cat-Eye Prism		Weight	
Robotic Range	1,5 m (5 ft) 120 m (427 ft)	Instrument (Trimble Ri)	5,65 kg
360° Prism3		Internal battery (Trimble Ri)	0.37 kg
Robotic Range	1,5 m (5 ft) 400 m (985 ft)	Dimensions	
EDM Specifications		Height x Width x Depth (Trimb	le Ri) 368mm x 184mm x 178mm
EDM Laser and Principle			
Light source	Laser Diode 660 nm		
Laser Class Safety			LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT
Reflector Mode	Laser Class 2		Wavelength: 640-680nm Maximum output power: 1mW
Reflector-less Mode and Laser Poir	nter Laser Class 2		This product complies with
EDM Beam divergence		CE	21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice no.50.
Divergence ada	aptive to distance (focusable laser)		• A date June 24, 2007



Spektra a Trimble Company

Via Pellizzari 23/A, 20871 Vimercate (MB) Tel. +39 039 625051 www.spektra.it | info@spektra.it

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