

R60 Total Station

ANGLE MEASUREMENT		LASER PLUMMET	
Accuracy ¹	1" / 2"	Laser Type	635nm semiconductor laser
Reading System	Absolute encoder	Accuracy	±1.0 mm @ 1.5 m
Angle Units	DEG 360°/GON 400/MIL 6.400	Spot	2.5 mm @ 1.5 m
Display Resolution	0.1" / 0.00002g / 0.0005 mil	LEVEL VIAL SENSITIVITY	
		Plate Level	30" / 2 mm
		Circular Level	8' / 2 mm
TELESCOPE		ENVIRONMENTAL CONDITIONS	
Magnification / Field of view	30x / 1°30'	Operating Temperature	-20°C to +50°C (-4°F to +122°F)
Tube Length	156 mm	Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Minimum Focus Distance	1.0 m (3.3 ft)	Waterproof/Dustproof	IP55
Reticle Illumination	10 brightness levels adjustable	PHYSICAL SPECIFICATION	
Effective Aperture	Ø 45 mm	Dimensions	358 x 211 x 220 mm
Laser Pointer	Red light, coaxial	Weight Including Battery and Tribrach	6.5 Kg
TILT SENSOR		POWER	
Type	Dual axis	Battery Voltage/Capacity/Type	7.2Vdc / 5200mAh / Li-ion
Compensation Range/Accuracy	≥3.0'	Batteries Number	2
DISTANCE MEASUREMENT RANGE²		Operating Time	Up to 8 hours (with one battery) ⁷
Prism Mode ³	5.000 m	Battery Charger	AC 100 - 240V, charging time 3h
Reflective Sheet (6 cm x 6 cm) ³	800 m	OTHER SPECIFICATIONS	
Reflectorless ⁴⁻⁶	1000 m	CPU	CORTEX-A55 Quad-Core
DISTANCE MEASUREMENT ACCURACY⁵		Display	5.5" color touch, 720 x 1280 px
Prism Mode	2 mm + 2 ppm	OS	Android 11
Reflective Sheet (6 cm x 6 cm)	3 mm + 2 ppm	Memory	4GB+32GB
Reflectorless	3 mm + 2 ppm	Interface	USB type-A, USB type-C, RS232, Bluetooth, Wi-Fi
MEASUREMENT TIME		Guide Light	Yes
Prism (Track/Fast/Standard)	0.4 / 0.6 / 1.0 sec	Sensors	Temperature / Pressure
Reflectorless	1.5-5 sec	ONBOARD FIELD APPLICATION PROGRAMS	
DISTANCE MEASUREMENT		Cube-a TS-GPS, R60 Manager	
Distance Units	m / US ft / INT ft		
Display Resolution	0.0001 m / 0.001 m 0.001 ft / 0.01 ft		

Specifications subject to change without notice.

¹ Standard deviation based on ISO 17123-3

² Good condition: cloudy, no haze, visibility about 40km, no heat shimmer, breeze. Under optimal conditions on Kodak Grey Card (90% reflective)

³ Class 1

⁴ Class 3R

⁵ Standard deviations based on ISO 17123-4

⁶ Under optimal conditions on good surface

⁷ Battery duration depends also on display brightness



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