

R60 Android Total Station Total Station with Android on board

Total Station with Android on board

The R60 is a device with a 5.5-inch touch screen and the Android operating system, which provides users with a smartphone-like experience in terms of

and integration with GNSS surveys. The operator can use background maps and exchange functions between the TS and remote controller (CNSS) with Bluetooth, without the need for cables.

drives, and the other with an accuracy of 1" and lock drives. With a prism, the instrument has an accuracy of 2 mm + 2 ppm, and it can measure





ANDROID 11 OS

The Android 11 operating system provides a multitude of possibilities for operators, allowing for easy touch management of jobs and the ability to work with convenient background maps. This operating system enhances the user experience and provides a user-friendly interface.



UP TO 1000 M REFLECTORLESS

The R60, available in both 1" and 2" versions, can obtain highly accurate long-range measurements. It can measure up to 1000 m without a prism and up to 5000 m with a prism, all with millimeter precision. This level of accuracy makes the R60 a reliable and efficient tool for a variety of applications, from construction and surveying to engineering and beyond.



GNSS CONNECTOR ON THE HANDLE

What sets the R60 apart is its GNSS connector; to perform a mixed survey using both a total station and GNSS, a connector has been placed on the handle to properly position the receiver on the vertical axis of the total station. This allows the operator to easily calculate the position coordinates and assign them as a reference to the total station.



TYPE-C PORT ON BATTERY

The Type-C USB port to charge the battery is a convenient feature that makes it easier than ever to keep your R60 powered up and ready to go.







ONBOARD SOFTWARE

Cube-a software, pre-installed on the R60 Android total station, offers a range of features designed to improve the efficiency and accuracy of surveying work. Among these features is direct I/O support for TS and Bluetooth support for GNSS, enabling the integration of data from various sources.

INTEGRATED CAD

During the survey and staking phase, Cube-a allows the operator to work in a simple and intuitive way, enriching the survey with overlapping Google maps or cartography imported by the user. Thanks to the powerful CAD integrated into Cube-a, the operator can directly complete the point measurement phase in the field by adding graphic elements, creating a complete restitution ready to be used immediately.

EASY DATA TRANSFER

Another feature of the Cube-a program is the data exchange capability that facilitates the seamless transfer of data between the total station and a remote controller. The transfer can be accomplished through a Bluetooth or Wi-Fi direct connection, removing the need for cables, and making the process more convenient and streamlined. With advanced features and an intuitive interface, the R60 Android total station is an ideal tool for any surveying project.



R60 TECHNICAL FEATURES

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
	0.400	LEVEL VIAL SENSITIVITY	
Display Resolution	0.1" / 0.00002g / 0.0005 mil	Plate Level	30"/ 2 mm
		_ Circular Level	8'/ 2 mm
TELESCOPE		ENVIRONMENTAL CONDITION	ONE
Magnification / Field of view	30x / 1°30'	ENVIRONMENTAL CONDITION	-20°C to +50°C (-4°F to +122°F)
Tube Length	156 mm	Operating Temperature	-40°C to +70°C (-40°F to +122°F)
Minimum Focus Distance	1.0 m (3.3 ft)	Storage Temperature	
Reticle Illumination	10 brightness levels adjustable	Waterproof/Dustproof	IP55
Effective Aperture	Ø 45 mm	-	
Laser Pointer	Red light, coaxial	- PHYSICAL SPECIFICATION	
Laser Fornter	Ned light, coaxial	Dimensions	358 x 211 x 220 mm
TILT SENSOR		Weight Including Battery and — Tribrach	6.5 Kg
Туре	Dual axis	_	
Compensation Range/Accuracy	≥3.0′	POWER	
Turige//tecuracy		Battery Voltage/Capacity/Type	7.2Vdc / 5200mAh /Li-ion
DISTANCE MEASUREMENT RANGE ²		Batteries Number	2
Prism Mode ³	5.000 m	Operating Time	Up to 8 hours (with one battery)7
Reflective Sheet		Battery Charger	AC 100 - 240V, charging time 3h
(6 cm x 6 cm) ³	800 m		
Reflectorless ⁴⁻⁶	1000 m	OTHER SPECIFICATIONS	
		CPU	CORTEX-A55 Quad-Core
DISTANCE MEASUREMENT ACCURACY ⁵		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		USB type-A, USB type-C, RS232,
LACTOR DEVICE TO A		Guide Light	Bluetooth, Wi-Fi Yes
MEASUREMENT TIME		Sensors	Temperature / Pressure
Prism (Track/Fast/Standard)	0.4 / 0.6 / 1.0 sec	5013313	remperature / 1 resourc
Reflectorless	1.5-5 sec	ONBOARD FIELD APPLICATION PROGRAMS	
		Cube-a TS-GPS, R60 Manager	
DISTANCE MEASUREMENT		(E	
Distance Units	m / US ft / INT ft	_	
Display Resolution	0.0001 m / 0.001 m 0.001 ft / 0.01 ft	_	
	0.00111/0.0111		

- 1 Standard deviation based on ISO 17123-3
- 2 Good condition: 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 deviation based on ISO 17123-4
- 6 Under optimal conditions on good surface
- 7 Battery duration depends also on display brightness

