

## Total Station Survey Equipment RTS102



Alphanumeric Keyboard

Measurement distance without reflector: 600m (R600)

Bluetooth cableless connection (factory option)

120,000 points and 40 jobs can be saved

Operate with Data Collector, FOIF FieldGenius or other third-party software

## Technical data

Model	RT102R600
telescope	

Length/Images	156mm/Right up
Objective aperture	φ45mm
magnification	30 times
Field of view	1°30
Minimum shooting distance	1.0m
Angle measurement	
Reading system	Absolute encoder
Angle unit	360/400gon/6400mil, selectable
Display resolution	0.5 inch/1 inch/5 inch (0.1mm/0.2mm/1mm)
Accuracy	2"
Distance measurement (R500)	
Display resolution (m/inch) can be selected	0.1mm/1mm
Laser-class prism	Class 1
Reflector/Reflective Sheet	Class 3R
Measurement range (good condition)	
No reflector	1-600m
Reflective sheet/RP60	1-800m
Single prism	1-5000m
Accuracy	
prism	2mm2ppm
Reflective sheet/RP60	3mm2ppm
No reflector	1-200m: 3mm2ppm/>=200m:5mm3ppm
Time it	Default value: 2 seconds
Prism (standard model)	3 seconds
Reflective sheet/RP60 (standard model)	3 seconds
No reflector (standard model)	3 seconds
Level Vial Sensitivity	
Plate Level Vial	30 inch/2mm
Round Level Vial	8 inch/2mm
Compensator	Two-axis compensator
Operating range	3 "
Setting accuracy	1 "
Laser centripetal type (standard)	
Accuracy	±1mm/1.5m
Laser class	Class 2/IEC60825-1
Laser brightness	Adjustable
Laser Wavelength	635nm
screen	
LCD, 6 lines x 20 characters (96 x 160 dots)	
force	
battery	3400mAh Lithium-ion rechargeable
Output voltage	DC7.4V
Continuous use time	8 hours
(Distance measurement once every 30 seconds)	
Charger	FDJ6-LI9 (100V/240V)
Charging time (20°C)	Approximately 4 hours
Application Program	
Data collection/stake drive/ablation/REM/MLM/point-to-line	
AREA/Z coordinates/OFFset/3D road/Traverse adjustment	
Tape measurement/section/axial position measurement	

others	
CPU	ARM9 Core
Memory	4G built-in memory
sensor	Built-in temperature and pressure sensors
keyboard	Alphanumeric keyboard, double-sided
Weight (including batteries)	9.0kg
interface	USB/RS-232C/Bluetooth (optional)
Waterproof and dustproof protection	IP54 (IEC60529)