

TG600 Technical features

ANGLE MEASUREMENT

Accuracy	2"
Reading system	Absolute, continuous four-quadrant
Display Resolution	0.1" / 1"
Angle Units	DEG 360°/GON 400/MIL 6.400

TELESCOPE

Magnification/ Field of view	30x /1° 30'
Tube length	154 mm
Minimum focus distance	1.2 m
Reticle	5 brightness levels adjustable
Objective aperture	Ø 45 mm (EDM: 50 mm)
Laser pointer ¹	Red laser dot

TILT SENSOR

Type	Dual axis, liquid photoelectric sensor
Compensation range/accuracy	±4'

DISTANCE MEASUREMENT RANGE ²

Standard prism mode	3.500 m
Reflectorless ³	1.000 m (800 m, for 2" version)

DISTANCE MEASUREMENT ACCURACY

Standard prism mode	±1 mm + 1 ppm
Reflector less	D<500 m: ±2 mm + 2ppm D>500 m: ±5 mm + 2ppm

MEASUREMENT TIME

Standard prism mode (Tracking/Precise)	0.1 / 0.3 sec
Reflector less	0.3 - 3 sec

DISTANCE MEASUREMENT

Distance Unit	m/US ft/INT ft
Display Resolution	1mm

MOTORIZATION

Technology	DC Servo Motor
Max rotation speed	60°/sec
Rotation time F1/F2	2.9 sec

APC	Centering range	3 - 1000 m
	Time	3 - 5 sec
	Search range	3 - 600 m
	AIM accuracy ²	± 1 mm @ 100 m
Fast360	Search range	3 - 300 m
	Search time	Typically, 90°: 3.5 s
	Angle ⁴	H: 360° V: ±18°
Lock range		3 - 600 m

LASER PLUMMET

Laser type	Red laser dot, 635 nm
Accuracy	±1.5 mm at 1.5 m

LEVEL VIAL SENSITIVITY

Plate level	30"/2 mm
Circular level	8'

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20°C to +50°C (-4°F to 122°F)
Storage Temperature	-40°C to +70°C (-40°F to 158°F)
Waterproof/Dustproof	IP55
Humidity	95% non-condensing

PHYSICAL SPECIFICATION

Dimensions	217 x 198 x 378 mm
Weight including battery and tribrach	7 Kg

POWER

Battery Voltage/Capacity	Li-ion rechargeable battery, 5400mAh
Operating time	4 hours
Battery charger	110/220V, charging time 4h

OTHER SPECIFICATIONS

CPU	MT6762
Display	5.5-inch, TFT LCD screen, 720 x 1280 px (2 displays)
Keyboard	13 keys
OS	Android 11
Memory	RAM: 4GB, ROM: 64GB
Interface	RS232
	USB Type-C (OTG)
	Micro
	SIM TF Card
Data transfer	Bluetooth long-range 300 m
	WLAN
	USB-OTG
	Network 4G

ONBOARD FIELD APPLICATION PROGRAMS

TopoGeoSurvey 6.x

Specifications subject to change without notice.

1. A built-in rangefinder product equipped with a Class 3R laser has a hazardous distance of 1,000 meters (3,300 feet). Beyond this distance, the laser intensity is reduced to Class 1.
2. Standard conditions, clear, with no haze or overcast. Range and accuracy depend on atmospheric conditions.
3. With Kodak Gray Card White Side (90% reflective).
4. For a 64 mm round prism.

**Topo
GEOS**

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