



GR-602D TOTAL STATION



MANUAL TOTAL STATION

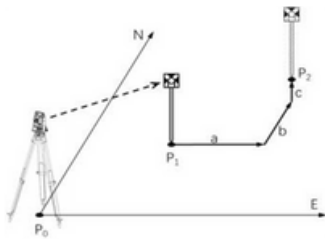
GR-602D

COMES WITH COMPLETE FIELD SOFTWARE FOR YOUR ALL SURVEY NEEDS

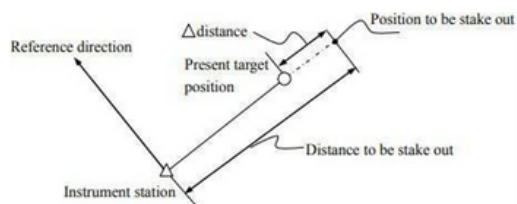
When the work is not limited to data collection GR-602D becomes your portable equipment for stake out and offset, MLM, REM, Road Calculation, Resection, Refline measurement. It's easy to calculate an area, the height of remote points, such as power lines and bridges. More than 15 Application are available.



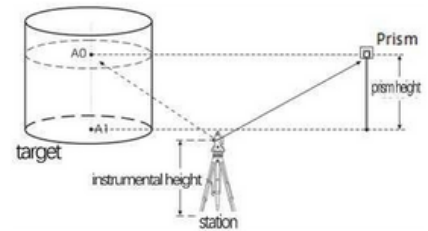
Coordinates stake out



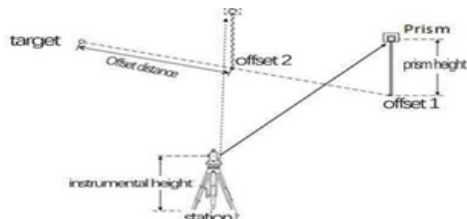
Angle, Distance stake out



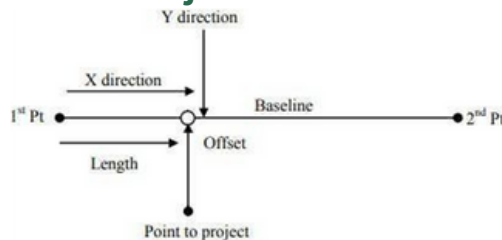
Angle offset



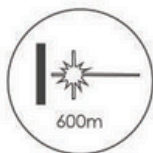
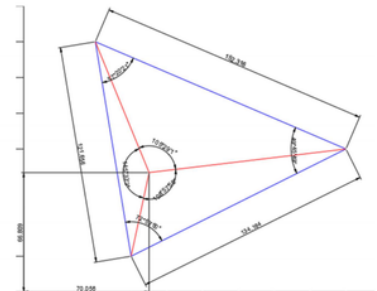
Double-Dist offset



Point Projection

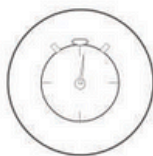


Resection



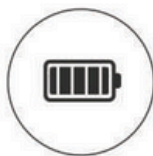
LONG DISTANCE MEASUREMENTS

Thanks to the high efficiency EDM, GR-602D guarantees long distance measurements: 600 m in reflectorless mode and up to 3500 m using a single prism, with millimeter accuracy.



FAST, ACCURATE, RELIABLE

Measuring distances in one second, with 2 mm accuracy, makes any job extremely cost effective and reliable. The wide range of application software allows to complete the Surveyor's tasks directly in the field.



16 HOUR OF FIELD WORK

The low power consumption circuit design and to the two high capacity batteries allow to continuously work for 16 hours and to measure over than 1.000 distances.



HIGH PROTECTION GRADE

IP54 Dustproof/water splashing from any angle.



TECHNICAL FEATURES

ANGLE MEASUREMENT

Reading system	Absolute encoder
Display resolution	1" / 5" / 10" (or 0.2mgon/1mgon/2mgon)
Angle Unit	360°(dms/d)- 400gon/6400mil
Accuracy ¹	2"

TELESCOPE

Magnification/Length	30 x/156 mm
Field of view	1°30'
Minimum focus	1.0 m
Reticle	9 brightness levels adjustable
Objective aperture	φ 45 mm

AUTOMATIC COMPENSATOR

System	liquid detection dual axis compensator
Compensation range/Accuracy	± 3' / 1"

DISTANCE MEASUREMENT RANGE

Reflectorless	2.0 ~ 600 ² m
With Prism	2.0 ~ 3000 ³ 2000 ⁴ 1500 ⁵ Class 1 up to 3500 m Class 3
With reflective sheet (60mm x 60mm)	2.0 ~ 800 m

MEASUREMENT ACCURACY

Reflectorless	± (3+2×10 ⁻⁶ D)mm
Prism	± (2+2×10 ⁻⁶ D)mm
Reflective sheet (60mm x 60mm)	± (3+2×10 ⁻⁶ D)mm

MEASUREMENT TIME

Measuring time (Tracking/Fast/Fine)	0.4 sec / 0.6 sec / 1.0 sec
Distance Unit	m/ft/US ft

LASER PLUMMET

Laser type	635nm semiconductor laser
Accuracy	1mm at 1.5 m instrument H
Laser spot	±1,5mm/1,5m

LEVEL VIAL SENSITIVITY

Plate level	30 (″2mm)
Circular level	8 (″2mm)

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20° C ; +50° C
Storage Temperature	-40° C ; +70° C
Waterproof/Dustproof	IP 54

PHYSICAL SPECIFICATION

Dimensions	175 mm x 178 mm x 340 mm
Weight (including battery and tribrach)	5.1 Kg

BATTERY

Voltage/Capacity	7.4V / 3400mAh Li-ion battery
Operating period with continuous angle measurement	8 hours
Operating period with measurement every 30 seconds	16 hours (>1,000 measurement at 20°C)

OTHER SPECIFICATIONS

Display	Two sides, LCD, 96x160 dots
Memory	120000 points
Interface	USB
Charger	110/220V, Charging time: about 4h



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