

ANGLE MEASUREMENT

Reading system	Absolute encoder
Display resolution	1" / 0.0002gon/0.005mil
Angle Unit	360°(dms/d)-400gon/6400mil
Accuracy	5"

TELESCOPE

Magnification	30 x
Field of view	1°30'
Minimum focus	1.0 m
Reticle	10 brightness levels adjustable
Objective aperture	φ 45 mm

AUTOMATIC COMPENSATOR

System	liquid detection double axis compensator
Compensation range	± 3'

DISTANCE MEASUREMENT RANGE

Without Prism	1.0 ~ 300 ¹ m
With Prism	1.0 ~ 3000 ² 2000 ³ 1500 ⁴ Class 1 up to 5000 m Class 3
With reflective sheet (60mm x 60mm)	1.0 ~ 800 m
With Mini Prism	2.0 ~ 800 m

MEASUREMENT ACCURACY

Without Prism	± (3+2×10 ⁻⁶ D)mm/(2~150) m ± (5+3×10 ⁻⁶ D)mm/(150~300) m
With Prism	± (2+2×10 ⁻⁶ D) m
With reflective sheet (60mm x 60mm)	± (3+2×10 ⁻⁶ D) m

MEASUREMENT TIME

Measuring time ⁵ (Tracking/Fast/Fine)	0.5 sec / 1.5 sec / 2.0 sec
Distance Unit	m/ft/US ft
Display Resolution	0.0001m/0.001ft/0.001ft

I dati tecnici sono soggetti a variazione senza preavviso.

¹ Visibilità a circa 20 Km, retroilluminazione a meno di 5000 lx, assenza di foschia, nessuna luce solare diretta. Senza Prisma: KODAK CAT NO.E1527795 (riflessività: 90%, formato: A4).

² Visibilità a circa 40 km, con sole e senza riverbero.

³ Visibilità a circa 20 km, luce solare moderata, leggero riverbero.

⁴ Visibilità a circa 10 km, leggera foschia, grande riverbero.

⁵ Test nelle migliori condizioni: al chiuso, l'obiettivo è lontano circa 10 metri, con prisma o KODAK bordo.

LASER PLUMMET

Laser type	635nm semiconductor laser
Accuracy	1mm at 1.5 m instrument height
Laser spot	2 mm/1.5m

LEVEL VIAL SENSITIVITY

Plate level	30 ("/2mm)
Circular level	8 ("/2mm)

ENVIRONMENTAL CONDITIONS

Operating / Storage Temperature	-20° C ; +50° C / -40° C ; +70° C
Protection to dust and water	IP66

WEIGHT

Weight including battery and tribrach	5.1 Kg
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BATTERY

Voltage/Capacity	7.4V / 3400mAh Li-ion battery
Operating period with continuous angle measurement	36 hours
Operating period with measurement every 30 seconds	26 hours (>1.000 measurement at 20°C)

OTHER SPECIFICATIONS

Display	Two sides, LCD, 96x160 dots
Internal Memory	128 MB
External Memory	2 GB SD card
Interface	RS-232C / mini USB/ SD card
Charger	110/220V, Charging time: about 4h



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