

R2W PLUS MODELS

R2W Plus 500	R2 -2"	R2 -5"
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ANGLE MEASUREMENT

Reading system	Absolute encoder
Angle Unit	360°(dms/d)/400gon/6400mil
Accuracy ¹	2" or 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

COMPENSATION

System	Electronic dual-axis-compensator
Working range/Accuracy	± 3.0' / 1"

DISTANCE MEASUREMENT RANGE (GOOD CONDITION)²

Reflectorless ³	1.0 ~ 500 m
With Prism	1.0 ~ 3000m Class 1 up to 7000 m Class 3
With reflective sheet (60mm x 60mm)	1.0 ~ 800 m
With Mini Prism	1.0 ~ 800 m

DISTANCE MEASUREMENT ACCURACY

Without Prism	± (3+2x10 ⁻⁶ D)mm / 1~200m ± (5+3x10 ⁻⁶ D)mm / ≥200m
With Prism	± (2+2x10 ⁻⁶ D) mm
With reflective sheet (60mm x 60mm)	± (3+2x10 ⁻⁶ D) mm

DISTANCE MEASUREMENT

Laser class (prism)	Class 1
Laser class (Reflectorless / Reflective sheet)	Class 3R
Measuring time	Initial: 2.5sec
Reflectorless	typ: 1.5-5sec, max: 20sec
With Prism	typ: 1.0-1.5sec
With reflective sheet (60mm x 60mm)	typ: 1.5sec
Distance Unit	m/ft/US ft

Specifications subject to change without notice

¹ Standard deviation based on ISO17123-3.

² Good conditions: no haze, visibility about 40km, no heat shimmer, breeze.

³ Reflector: White side of Kodak Gray Card with 90% reflective.

⁴ Laser plummet mounted on the bottom of the vertical axis.

LASER PLUMMET (STANDARD)⁴

Accuracy	±1.0mm at 1.5 m instrument height
Laser class	Class 2/IEC60825-1
Laser wavelength	635nm
Laser spot	2.0mm/1.5m

LEVEL VIAL SENSITIVITY

Plate level vial	30" / 2mm
Circular level vial	8' / 2mm

ENVIRONMENTAL CONDITIONS

Operating Temperature	-20° C ~ +50° C
Storage Temperature	-40° C ~ +70° C
Protection to dust and water	IP55 (IEC60529)

WEIGHT

Weight including battery and tribrach	5.5 Kg
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POWER

Battery	3400mAh Li-ion rechargeable
Output voltage	7.4V
Operating period with continuous angle measurement	12 hours
Operating period with measurement every 30 seconds	Approx. 9 hours (>1000 measurements)
Charger	110V/240V
Charging time (at +20° C)	Approx. 4 hours

OTHER SPECIFICATIONS

CPU	ARM9 core
Display	Two sides, 3.5" color TFTLCD (320 x 240 pixel), touch screen
Internal Memory	2GB
Interface	RS-232C / USB slave / USB host
Bluetooth	Optional
Bluetooth level	Class 2
Bluetooth effective distance	10 m
Guide Light System	Optional
Sensor	Temperature/Pressure



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