S STONEX

R2W PLUS

POWERFUL PERFORMANCES AT AFFORDABLE PRICES

R2W Plus, the new Stonex Windows CE based Total Station, opens a new era in the world of traditional surveying.

R2W Plus TFT 320x240 2 sides touch screen display gives the Surveyor a clear, colourful and fully graphical environment, and the user friendly on board software supports the users with guided through functions for data collection, topographic surveys, staking; many field programs are included: free station, area and volume calculations, COGO, remote elevation, missing line, and much more. The measured points are displayed on the graphical map, providing the users with a clear image of their job. The high-precision class 3 EDM featuring millimeter accuracy even on long range distances (up to 500 m reflectorless mode), and the absolute encoders performing angles measurements

> with 2" and 5", provide reliable points calculation in every condition; STONEX R2W Plus is IP55 dustproof and waterproof certified. STONEX R2W Plus clear 30X telescope, with illumination adjustable reticle, provides superior sighting quality in any light condition. The instrument is available 2"or 5" horizontal/vertical angles accuracy, and 2mm + 2ppm accuracy on distance measurements, with a range of 500 m (reflectorless mode), and up to 3000/7000 m with a single prism. The USB / mini USB ports, located on the side of the display / keyboard, guarantees an efficient system for data

Laser technology (class 3 laser) for long range reflectorless distance measurements

Alphanumeric keyboard on both sides with high resolution TFT LCD touch screen display

upload / download. STONEX R2W Plus is supplied with a built-in visible laser plummet (class 2 laser).

LONG RANGE

EASY DATA

EASY READER

CAPACITY

KEY FEATURES

TECHNICAL FEATURES R2W PLUS



R2W Plus Models	~ - I		
R2W Plus 500	R2 -2"	R2 -5"	

Angle measurement Reading system	Absolute encoder			
Display resolution	1" / 0.0002gon/0.005mil			
Angle Unit	360°(dms/d)/400gon/6400mil			
Accuracy ¹	2" or 5"			
Telescope	2 01 3			
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-compensato			
Working range	± 3.0'			
Distance Measurement Range				
Reflectorless ³	1.0 ∼500 m			
	1.0~3000m Class 1			
With Prism	up to 7000 m Class 3			
With reflective sheet (60mm	1.0 ∼800 m			
x 60mm)				
With Mini Prism	1.0 ∼800 m			
Distance Measurement Accura	асу			
Without Prism	± (3+2x10 ⁻⁶ D)mm / 1~200m			
	± (5+3x10 ⁻⁶ D)mm / ≥200m			
With Prism	± (2+2×10 ⁻⁶ D) mm			
With reflective sheet (60mm	± (3+2x10 ⁻⁶ D) mm			
x 60mm)				
Distance Measurement				
Laser class (prism)	Class 1			
Laser class (Reflectorless /	Class 3R			
Reflective sheet)				
Measuring time	Initial: 2.5sec			
Reflectorless	typ: 1.5-5sec, max: 20sec			
With Prism	typ: 1.0-1.5sec			
With reflective sheet (60mm	typ: 1.5sec			
x 60mm)				
Distance Unit	m/ft/US ft			
Display Resolution(m/inch	0.1mm/1mm			

Standard deviation based on ISO17123-3.	Standard	deviation	based	on	ISO17123-3.
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Laser plummet (Standard) 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 Weight Weight including battery and tribrach Power Battery 3400mAh Li-ion rechargeable Output voltage 7.4V Operating period with continuous angle measurement Operating period with measurement Operating period with measurement Charger 110V/240V Charging time (at +20° C) Approx. 8 hours 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 level Class 2 Bluetooth effective distance Guide Light System Optional Sensor Temperature/Pressure	1 (c) 1 4				
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Weight Weight including battery and tribrach Power Battery 3400mAh Li-ion rechargeable Output voltage 7.4V Operating period with continuous angle measurement Operating period with measurement every 30 seconds 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 level Class 2 Bluetooth effective distance Guide Light System Optional	Storage Temperature	-40° C ∼ +70° C			
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Guide Light System Optional	Bluetooth effective	10 m			
	distance				
	Guide Light System	Optional			
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³ Reflector: White side of Kodak Gray Card with 90% reflective.

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