

R2W PLUS

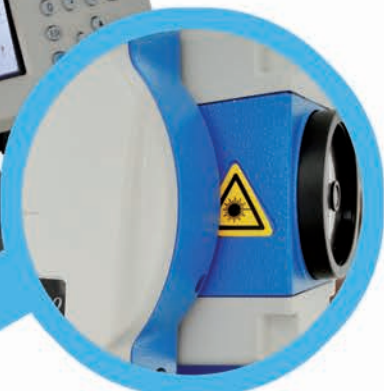
**POWERFUL PERFORMANCES
AT AFFORDABLE PRICES**



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

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



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



See more @ <http://www.stonexpositioning.com/index.php/en/prodotti/total-stations>

EASY TO USE

Windows CE 5.0 OS and user friendly on board software

LONG RANGE

500m reflectorless range. 2" or 5" accuracy are available

EASY DATA

Communication with the USB/mini USB ports to load/download data

POWERFUL

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

EASY READER

Two side high resolution TFT LCD touch screen display

CAPACITY

Large storage capacity with 2GB internal memory

KEY FEATURES

| R2W Plus Models | | |
|-----------------|--------|--------|
| R2W Plus 500 | R2 -2" | R2 -5" |

| 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 | ± 3.0' |
| 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 |
| 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. 8 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 |



STONEX AUTHORIZED DEALER

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