

R1 PLUS

THE MOST AFFORDABLE HIGH PRECISION TOTAL STATION

HANDY, LIGHT AND PRECISE

STONEX R1Plus Total Station, precise distance and angles measurements, concentrated in 5 Kg of pure technology. The perfect tool whenever the topographic works requires a light and fast machine, all day working thanks to 26 hours of continuous operating time.

THE FLEXIBLE PARTNER OF ANY PROFESSIONAL SURVEYOR


The onboard field programs, included as standard, make STONEX R1Plus suitable for any construction site, cadastral, mapping and staking out, works. No limitation for distance measurements, up to 5.000 m with a single prism - 300 m reflectorless (KGC 90%) – and 5" as angular accuracy, always guarantee a reliable points calculation.

SOLID, RUGGED, POWERFUL


STONEX R1Plus has been designed to hold out against rain and dust: the IP66 certification allows to go ahead with the survey even during hard rain. The body design is distinguished by its robust mechanical structure, and the high performance telescope, featuring 30X magnification and illuminated reticle, provide the best sighting quality in any lighting condition.

PROTECT YOUR BUDGET

STONEX R1Plus is not amazing only for its technical features. Enjoy the R1Plus benefit cost ratio, probably the most effective in the Total Station market, and 2 years of global warranty, guaranteed from the worldwide network of STONEX authorized Distributors.



Laser technology (class 3 laser with a wavelength between 650 and 690 nm) for distance measurement



Alphanumeric keyboard on both sides with high resolution LCD display and backlight and 6 lines of 20 characters



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

POWERFUL

300 m reflectorless measuring power, up to 5.000 m with single prism

EASY DATA

Communication with the mini USB port to load/download data

INTEGRABLE

Complete field programs suite for data collection, staking out, resection, REM, area calculations, offset, point to line

EASY READER

Alphanumeric keyboard on both sides with high resolution backlit LCD display

CAPACITY

Large storage capacity with 128MB internal memory - External SD Card

CERTIFICATED

IP 66 protection certification, dust and watertight guaranteed

KEY FEATURES

| 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 multi 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 |
| Distance Measurement Accuracy | |
| Without Prism | ± (3+2×10 ⁻⁶ D)mm/(2~150) m ± (5+3×10 ⁻⁶ D)mm/(150~300) m ± (10+5×10 ⁻⁶ D)mm/(300~500) m |
| With Prism | ± (2+2×10 ⁻⁶ D) m |
| With reflective sheet (60mm x 60mm) | ± (3+2×10 ⁻⁶ D) m |
| Distance Measurement | |
| 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 |

Specifications subject to change without notice

¹ Visibility about 20 km, back light less than 5000 lx, no haze, no direct sunlight. No prism target: KODAK CAT NO.E1527795 (reflectivity: 90%, size: A4).

² Visibility about 40 km, sunny, no heat shimmer.

³ Visibility about 20 km, moderate sunlight, slight heat shimmer.

⁴ Visibility about 10 km, light haze, severe heat shimmer.

⁵ Best testing condition: Indoors, target is far away about 10 m, prism or KODAK board.

| 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 |
| 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) |
| Type | BT43 |
| 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 |



STONEX AUTHORIZED DEALER

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