

R2 PLUS

POWERFUL PERFORMANCES

PERFORMANCES GUARANTEED

High accuracy and long reflectorless range are the perfect combination that makes STONEX R2 Plus the best friend of every professional surveyor.

WIDE RANGE OF SCALABLE SOLUTIONS

Cadastral, mapping, staking out, and up to high precision monitoring works: within the range of R2 Plus Series, you will find the solution that fits your needs. R2 Plus comes standard with integrated onboard field software, a complete suite of applications, and an external controllers can be linked to STONEX R2 Plus, through the Bluetooth™ wireless connection: no limitation will stop your working process. Road software module is included as standard in each STONEX R2 Plus.

MEASURE THE RIGHT POINTS

Measuring height of cables and buildings corners is not problems with R2 Plus: its laser is designed to measure long distances with high accuracy. The 2 mm ± 2 ppm EDM on distances up to 7000 m, and the 2" accuracy guarantee high precision in the 3D coordinates calculation.

The integrated temperature and pressure sensors are further helpful tools that make any measure reliable and accurate.

FRIENDLY INTERFACE FOR A SEAMLESS DATA FLOW

Whether the work is a basic survey or a long road staking out under full sun, STONEX R2 Plus will always help you with a friendly user interface and its intuitive field software. The navigation menu drives the Surveyor into simple operations, and the results are displayed in a clear way. The large LCD display, of the same dimension on both sides of the Total Station, drives you quickly to the right solution.



Alphanumeric keyboard on both sides
with high resolution backlit
large LCD display

Laser Technology (Class 3 with a
wavelength between 650 and 690nm)
for distance measurements

LONG RANGE, HIGH PRECISION

Reflectorless 500m (2" accuracy), range up to 7000m with single prism

EASY DATA

Easy data communication with the mini USB port

RELIABLE MEASUREMENTS

Narrow beam laser technology guarantees precise and reliable points positioning calculations

USER FRIENDLY

Alphanumeric keyboard on both sides with high resolution backlit large LCD display

CAPACITY

Large storage capacity with 128MB internal memory and up to 2GB SD card for external memory

KEY FEATURES

R2 PLUS MODEL

Plus 500	R2 -2"
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ANGLE MEASUREMENT

Reading system	Absolute encoder
Display resolution	1" /5" /10" ; 0.0002g/0.001g/0.002g; 0.005mil/0.02mil/0.05mil
Angle Units	DEG 360°/GON 400/MIL 6400
Accuracy	2"

TELESCOPE

Magnification/ Field of view	30X/1°30'
Tube length	156 mm
Minimum focus distance	1.0 m (3.26 ft)
Reticle	10 brightness levels adjustable
Objective aperture	φ 45 mm
Laser pointer	Red light, coaxial

TILT SENSOR

Type	Electronic, dual-axis
Compensation range/accuracy	± 3.0°/1"

DISTANCE MEASUREMENT RANGE (GOOD CONDITION)¹

Standard mode/Prism	1.0 ~ 3000 ² 2000 ³ 1500 ⁴ Class1 up to 7000 m Class 3
Reflective sheet (60mm x 60mm)	1.0 ~ 800 m
Without Prism	1.0 ~ 350 ⁵ m - 1.0 ~ 500 ⁵ m
With Mini Prism	1.0 ~ 800 m

DISTANCE MEASUREMENT ACCURACY

Standard mode/Prism	± (2+2x10 ⁻⁶ D) mm
Reflective sheet (60mm x 60mm)	± (3+2x10 ⁻⁶ D) mm
Without Prism	2-150m: ± (3+2x10 ⁻⁶ D)mm 150-300m: ± (5+3x10 ⁻⁶ D)mm 300-500m: ± (5+5x10 ⁻⁶ D)mm

MEASUREMENT TIME (MAX 20S)

Standard mode/Prism ⁶ (Tracking/Fast/Fine)	0.5 sec / 1.5 sec / 2.0 sec
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DISTANCE MEASUREMENT

Distance Unit	m/ft/US ft
Display Resolution (m/inch selectable)	0.0001m/0.001ft/0.001 US ft

LASER PLUMMET

Laser type	± 1mm/1.5 m
Laser brightness	Adjustable

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	IP55

WEIGHT

Weight including battery and tribrach	5.5 Kg
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POWER

Battery Voltage/Capacity	7.4V / 3400mAh Li-ion
Operating period (angle measurement)	36 hours
Operating period (distance meas. every 30 seconds)	19 hours
Battery charger	110/220V, charging time: approx.4h

OTHER SPECIFICATIONS

Display/Keyboard	Two sides, large LCD, 240x128 dots/Alphanumeric
Memory	128 MB internal + 2 GB SD card
Interface	RS-232C / USB/ SD card/Bluetooth™
Sensors	Built in temperature/pressure sensors

ON BOARD FIELD APPLICATION PROGRAMS

Data recording and management, Setting out, Resection, Intersection, Point to line, Area calculation, Offset, Road

Specifications subject to change without notice

¹ Good condition: no haze, visibility about 40km, no heat shimmer, breeze.

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 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).

⁶ Best testing condition: Indoors, target is far away about 10 m, prism or KODAK board.



STONEX AUTHORIZED DEALER

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