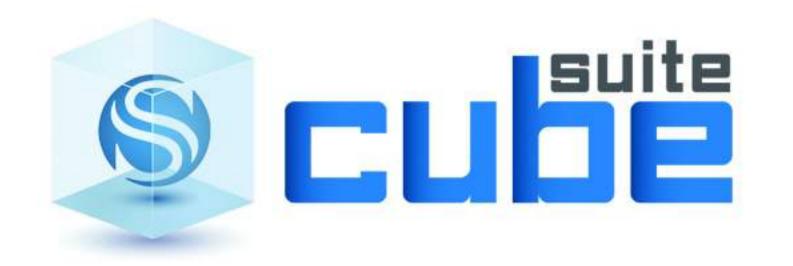


# R15 Total Station Precise, accurate and reliable FI F2 F3 FA C C C



The companion of every PROFESSIONAL SURVEYOR

Stonex R15 Total Station, precise distance and angles measurements, concentrated in 5 Kg of pure technology.

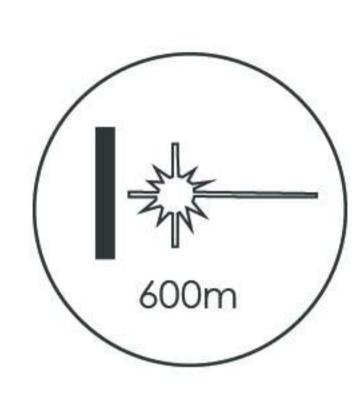
The perfect tool whenever the topographic works require a light and fast machine, all day working thanks to 24 hours of continuous operating time.

The onboard field programs, included as standard, make R15 suitable for any construction site, cadastral, mapping and staking out, works.

No limitation for distance measurements, up to 5000 m with a single prism 600 m reflectorless and 2" as angular accuracy, always guarantee a reliable points calculation.

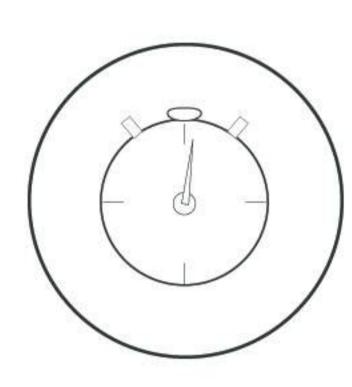
R15 has been designed to hold out against rain and dust: the IP55 certification allows to go ahead with the survey even during hard rain. The body design is distinguished by its robust mechanical structure, and the high performance telescope, featuring 30X magnification and illuminated reticle, provide the best sighting quality in any lighting condition.





# LONG DISTANCE MEASUREMENTS

Thanks to the high efficiency EDM, R15 guarantees long distance measurements: 600 m in reflectorless mode and up to 5000 m using a single prism, with millimeter accuracy.



## FAST, ACCURATE, RELIABLE

Measuring distances in one second, with 2 mm accuracy, makes any job extremely cost effective and reliable. The wide range of application software allows to complete the Surveyor's tasks directly in the field.



# 3 DAYS OF FIELD WORK

The low power consumption circuit design and to the two high capacity batteries allow to continuously work for 24 hours and to measure over than 1000 distances. The SD card up to 16 Gb can store a huge amount of data.



#### HIGH PROTECTION GRADE

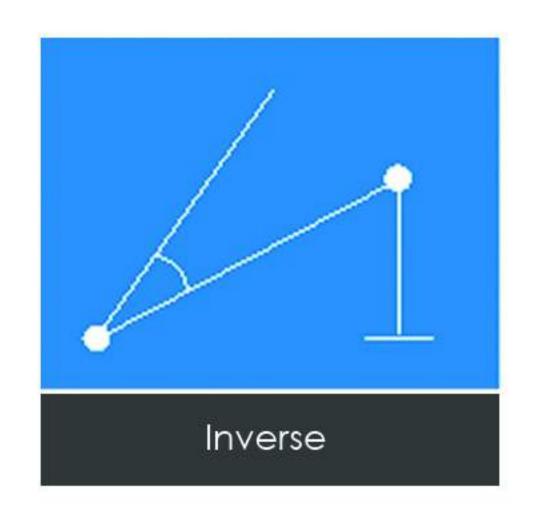
IP55 dustproof/waterproof rating ensures R15's high reliability in all weather conditions and allows to continue working even under very humid conditions and where sand and dust are present.

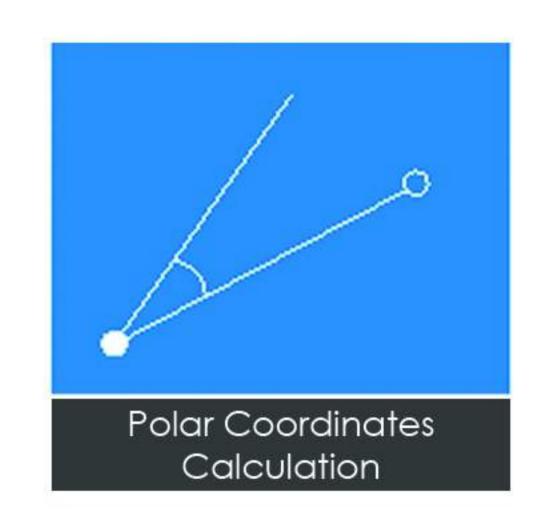


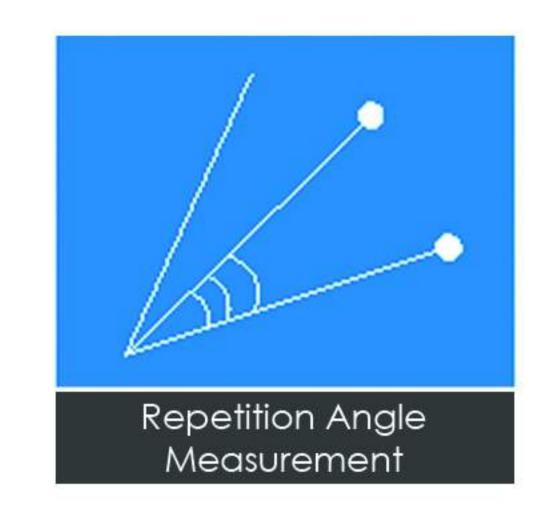


# The most complete field software suite at your service

When the work is not limited to points collection, R15 becomes your portable equipment for COGO calculations and setting out of points, lines, roads. It's easy to calculate an area, the height of remote points, such as power lines and bridges, the accuracy of a traverse. More than 15 programs are available.

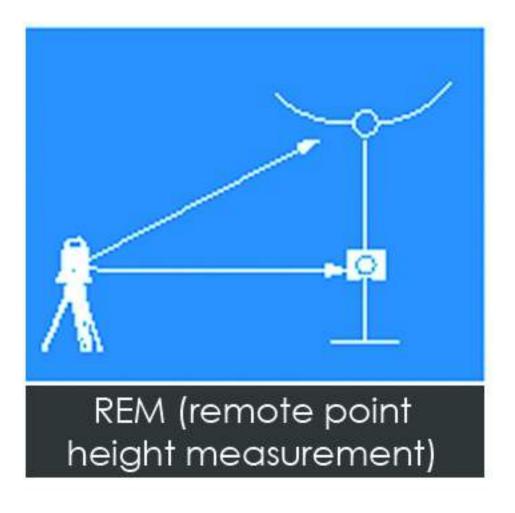


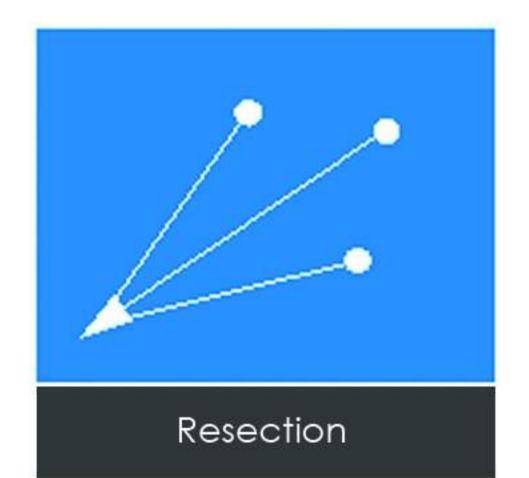


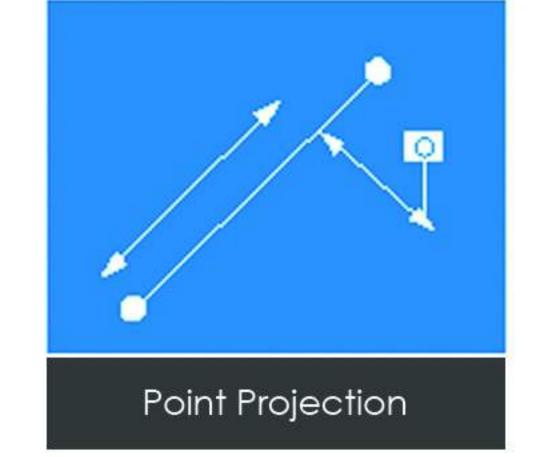


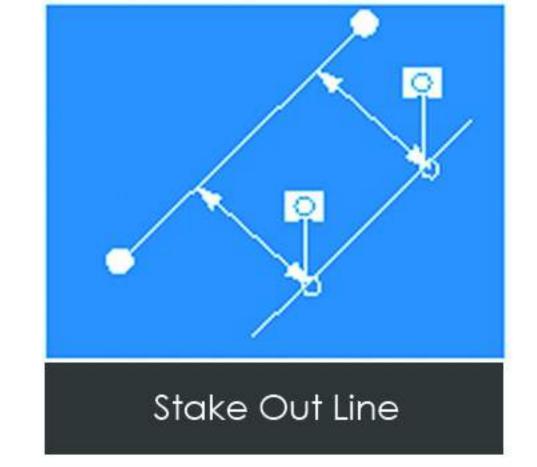




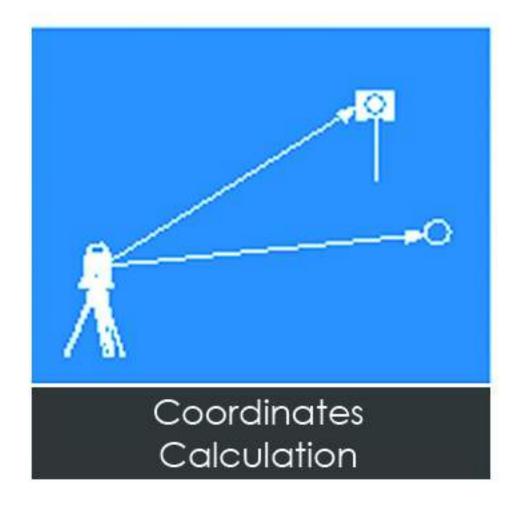


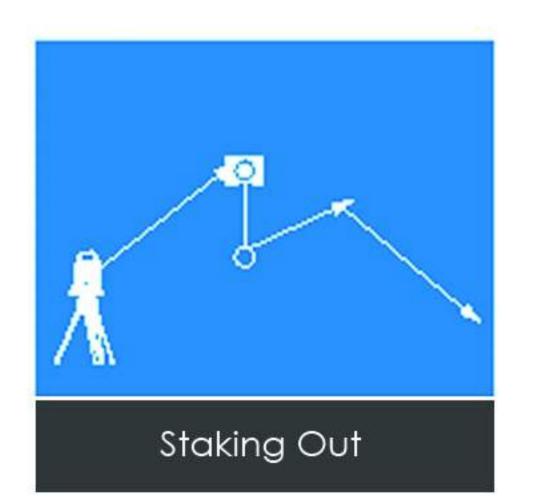


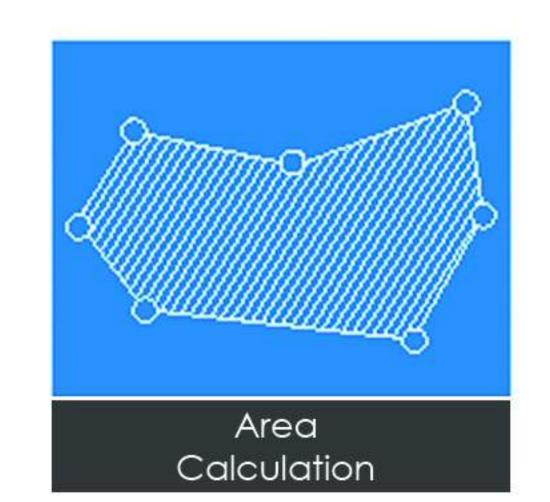


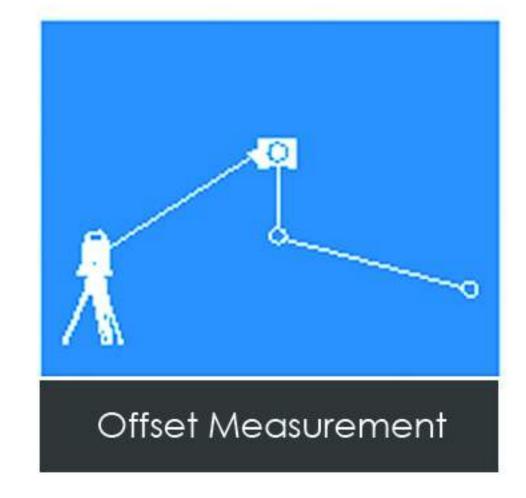


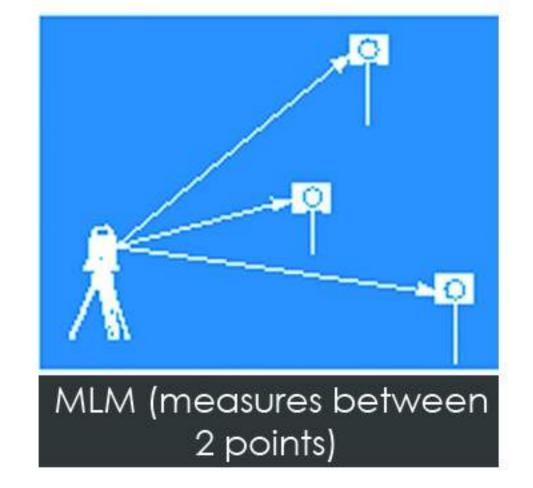












# R15 TECHNICAL FEATURES

ANGLE MEASUREMENT	
Accuracy <sup>1</sup>	2"
Reading system	Absolute encoder
	1" /5" /10"
Display Resolution (selectable)	0.0002g/0.001g/0.002g
	0.005mil/0.02mil/0.05mil
Angle Units	DEG 360°/GON 400/MIL 6.400
TELECCORE	
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 I	RANGE <sup>2</sup>
Standard mode prism	3.000 m <sup>3</sup>
Long mode prism	5.000 m <sup>4</sup>
Reflective sheet (6cm x 6cm)	800 m <sup>4</sup>
Reflectorless <sup>5</sup>	Up to 600 m <sup>4</sup>
DISTANCE MEASUREMENT	ACCURACY <sup>6</sup>
Standard mode prism	2 mm + 2 ppm
Long mode prism	2 mm + 2.5 ppm
Reflective sheet (6cm x 6cm)	3 mm + 2 ppm
Reflectorless	3 mm + 2 ppm
MEASUREMENT TIME	
Standard mode/Prism (Tracking/Fast/Fine)	0.4/0.6/1.0 sec
Reflectorless	1.5÷5 sec
DISTANCE MEASUREMENT	

Illustrations, descriptions and technical specifications are not binding and may change

m/US ft/INT ft

0.001ft/0.01ft

0.0001m/0.001m

1 Standard deviation based on ISO 17123-3

**Distance Units** 

(selectable)

Display Resolution

- 2 Good condition: no haze, visibility about 40km, no heat shimmer, breeze.
- 3 Class 1
- 4 Class 3R
- 5 Under optimal conditions on good surface
- 6 Standard deviation based on ISO 17123-4

LAS	ER	PL	U	1E I
North-Street	nteres present	12825401		

Laser type	635nm semiconductor laser
Accuracy	1mm/1.5 m
Spot	± 1.5mm/1.5 m

#### LEVEL VIAL SENSITIVITY

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

#### ENVIRONMENTAL CONDITIONS

Operating Temperature	-20° C +50° C	
Storage Temperature	-40° C +70° C	
Waterproof/Dustproof	IP55	

#### PHYSICAL SPECIFICATION

	222 225	
Dimensions	202 x 197 x 345 mm	
Weight including battery and tribrach	5.5 Kg	

#### **POWER**

Battery Voltage/Capacity	7.4V/3.400mAh Li-ion	
Operating time	Up to 24 hours	
(angle measurement)	Op to 2 i nours	
Operating time	Up to 12 hours	
(distance meas. every 30 sec)	Op to 12 hours	
Operating time	Up to 10 hours	
(angle + distance meas.)	Op to 10 flours	
Battery charger	110/220V, charging time 4h	

#### OTHER SPECIFICATIONS

Display/Keyboard	Two sides, LCD 96x160
	Dots/Alphanumeric
Memory	120.000 points
	SD card (max 16Gb)
Interface	RS-232C/mini USB/SD card/
	Bluetooth
Sensor	Temperature/Pressure

### ON BOARD FIELD APPLICATION PROGRAMS

Data recording and management, Stake out, Area, Offset, Traverse, Inverse, Point projection, MLM, REM, Resection, Line stake out, Arc stake out, Polarize, Repeat measure, Road calculation



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