

# R80 - technical features

## ANGLE MEASUREMENT

Accuracy	1"
Reading system	Absolute, continuous four-quadrant
Display Resolution (selectable)	0.1" / 0.5" / 1"
Angle Units	DEG 360°/GON 400/MIL 6.400

## TELESCOPE

Magnification/ Field of view	30x/1°20'
Minimum focus distance	1.5 m
Reticle	10 brightness levels adjustable
Objective aperture	φ 45 mm
Laser pointer	Red light, coaxial



# R80 - technical features

## DISTANCE MEASUREMENT RANGE

Standard mode prism	2.500 m
Long mode prism	5.000 m
Reflective sheet (6cm x 6cm)	800 m
Reflectorless	Up to 1.000 m

## MEASUREMENT TIME

Standard mode/Prism (Tracking/Fine)	0.4/ 0.8 sec
Reflectorless	1.5÷3 sec



# R80 - technical features

## DISTANCE MEASUREMENT ACCURACY

Standard mode prism	1 mm + 1 ppm
Long mode prism	4 mm + 2 ppm
Reflective sheet (6cm x 6cm)	2 mm + 2 ppm
Reflectorless	3 mm + 2 ppm



# R80 - technical features

MOTORIZATION	
Technology	Gear motor drives
Max rotation speed	35°/sec
AIM accuracy	±1.5", ±1.5 mm @ <100 m
AIM range	1000 m at round prism
Search range	800 m at round prism
Lock range	600 m at round prism
Max lock speed	50 km/h at 100 m



# R80 - technical features

## OTHER SPECIFICATIONS

<b>CPU</b>	ARM Cortex A8
<b>Display/Keyboard</b>	Two sides, 3.5" color TFTLCD 320x240 pixel touch screen
<b>OS</b>	Windows CE 7.0
<b>Memory</b>	4Gb internal
<b>Interface</b>	RS-232C/standard USB/ mini USB/Bluetooth long range
<b>Guide Light</b>	100 m
<b>Sensor</b>	Temperature/Pressure



# R80 - technical features

## POWER

Battery Voltage/Capacity	7.4V/5.800mAh Li-ion
Operating time	5-8 hours
Battery charger	110/220V, charging time 4h

## PHYSICAL SPECIFICATION

Dimensions	220 x 225 x 380 mm
Weight including battery and tribrach	7.9 Kg

