

Sokkia Total Station iM55 Technical Specifications:

Model	Sokkia iM 55 Total Station
Telescope	
Magnification / Resolving Power	30x / 2.5"
Length	171mm
Objective aperture	45mm (48mm for EDM)
Image	Erect
Field of View	1°30' (26m / 1,000m)
Minimum focus	1.3m
Reticle illumination	5 brightness levels
Angle Measurement	
Display Resolution	1"/5" (0.0002 / 0.001gon, 0.005 / 0.02mil)
Accuracy (ISO 17123-3:2001)	5"
Dual Axis Compensator	Working range ±6' (±111 mgon)
Collimation Compensation	On/Off (selectable)
Distance Measurement	
Laser output (Reflectorless mode)	Class 3R / Prism / sheet mode: class 1
Range reflectorless mode	0.3 to 500m (1,640ft.)
Range prism mode	1.3 to 4,000m (4.3 to 13,120ft.)
Measuring Time	
Fine Measurement Mode	0.9 sec.(Initial 1.5 sec.)
Rapid Measurement Mode	0.6 sec.(Initial 1.3 sec.)
Tracking Measurement Mode	0.4 sec.(Initial 1.3 sec.)
Interface and Data Management	
Display / Keyboard	Graphic LCD, 192 x 80 dots, backlight, contrast adjustment / alphanumeric keyboard / 28 keys with backlight
Control panel location	Single side
Data storage (Internal memory)	Approx. 50,000 points
Data storage (Plug-in memory device)	USB flash memory (max. 32GB)
Interface	Serial RS-232C, USB2.0 (Type A for USB flash memory)
Bluetooth modem (optional)*	Bluetooth Class 1.5, Operating range: up to 10m
General	
Laser pointer	Coaxial red laser using EDM beam

Levels Graphic	6' (Inner Circle)
Circular Level	10 ⁷ /2mm
Optical	Magnification: 3x Minimum focus: 0.5m from tribrach bottom
Dust and water protection	IP66 (IEC 60529:2001)
Operatig temperature	-20°C to 60°C
Size with handle (w x d x h mm)	183 x 174 x 348mm
Weight with batter and tribrach	Approx. 5.1kg
Power Supply	
Battery (BDC46C) Detachable battery	Li-ion rechargeable battery
Operating time (20°C) BDC46C	Approx. 14 hours (In use of ECO mode. Fine single measurement every 30sec)