I-Site 8200ER Technical Specifications
Underground > Topographic > Civil survey applications

General
Size 415mm x 216mm x 378mm (hxdxw)
Weight 11.9kg, without battery
Battery Interchangeable, Li-ion 2.5 hours operation
Levelling 20"
Constant operating temp. 0 to +50°C (short exposure* -40° to +50°C)
Storage temp. -40° to +70°C
Compass ¶ ±1°
Internal GPS L1
Reliability ISO 9022
Protection class IP65 (IEC 60529)
Data recorder Onboard USB plus wireless ruggedised tablet controller
Mounting Standard tribrach mount
GPS mount External 5/8" UNC thread
Carry case Customised case

Scanner
Maximum range † 750m
Minimum range 1m
Range accuracy‡ 6mm
Repeatability‡ ±6mm
Exit aperture <8mm
Beam divergence 0.25mrad
Acquisition rate 80kHz, 40kHz
Product laser class Class 1 IEC60825-1:2007
Wavelength Near IR
Intensity measurement Yes
Angular step selectable 0.2° to 0.025°
Angular scanning range 125° vertical, 360° horizontal
Laser pointer 650nm red laser (Class 1)

* Time to perform a 20-minute scan
¶ Assumes no metallic objects or magnetic field interference.
† Firing at 40 Khz for high resolution scans. Based on returns from flat normal targets and good atmospheric conditions.
‡ Under Maptek test conditions.
Information subject to change