

# 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 <sup>¶</sup>	±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 <sup>†</sup>	750m
Minimum range	1m
Range accuracy <sup>‡</sup>	6mm
Repeatability <sup>‡</sup>	±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

