

MAPTEK™ I-Site 8820

TECHNICAL SPECIFICATIONS

Long range laser scanner with modular design configured to suit your survey requirements
Tough > Reliable > Proven

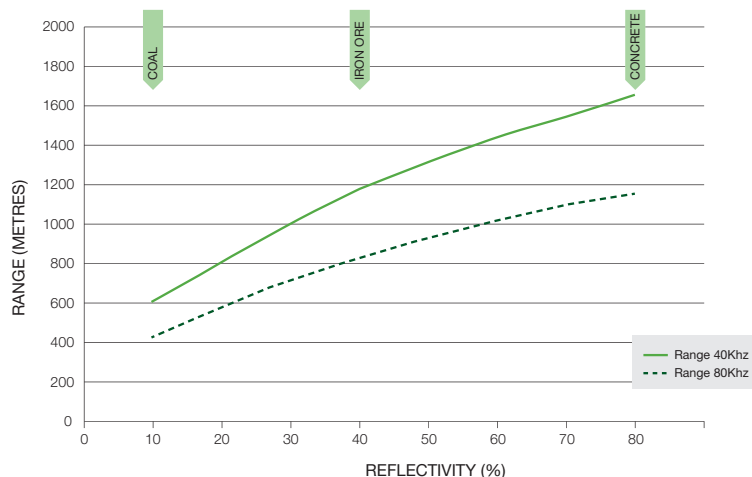


GENERAL

Size	455mm x 246mm x 378mm (hxdxw)
Weight	12kg, without battery or optional accessories
Battery	Interchangeable, Li-ion 2.5 hours operation
Fine levelling	20"
Coarse levelling	1° over any tilt
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	IP-65 (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 [†]	2000m off reflector
Minimum range [†]	2.5m
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	80° vertical, 360° horizontal





DIGITAL CAMERA *(Optional)*

Type	Line scanning digital panoramic camera
Pixel resolution	70 megapixel
Angular range	80° vertical, 360° horizontal
Acquired	During laser scan
Exposure control	User definable
Lens	Nikon 20mm f/2.8D, with filter
Image render method	Corrected image automatically rendered to scan in I-Site Studio
Depth of field	3m to infinity



TELESCOPE *(Optional)*

Angular range	80° vertical, 360° horizontal
Focal Range	5m to infinity
Focus control	Electronic motorised focus
Objective aperture	28mm
Magnification	14x
Reticule	Crosshair
Field of view	3° in field
Resolving power	±5"
Minimum azimuth step	3.6"
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.