

Long range laser scanner for all survey applications  
Tough > Reliable > Versatile

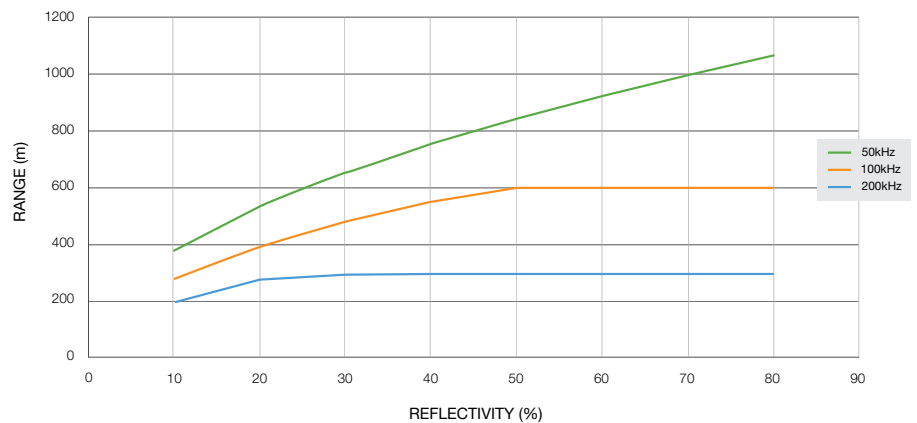


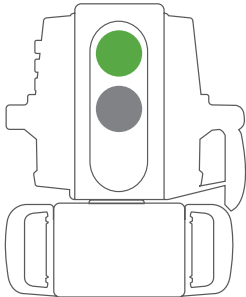
### General

Size	390mm x 192mm x 318mm
Weight	9.4kg, without battery or options
Battery	Interchangeable, Li-ion 2.0 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 <sup>†</sup>	±1°
Internal GPS	L1
Quality certified	ISO 9022
Protection class	IP65 (IEC 60529)
Data recorder	Onboard USB plus wireless ruggedised tablet controller
Mounting	Internal 5/8" UNC thread & Tbolt slots
GPS mount	External 5/8" UNC thread
Carry case	Customised case

### Scanner

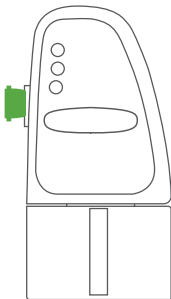
Maximum range <sup>†</sup>	1200m off reflector
Minimum range <sup>†</sup>	2.5m
Range accuracy <sup>‡</sup>	4mm
Repeatability <sup>‡</sup>	±3mm
Exit aperture	<8mm
Beam divergence	0.25mrad
Acquisition rate	200kHz 100kHz 50kHz
Product laser class	Class 1 IEC60825-1:2014
Wavelength	Near IR
Intensity measurement	Yes
Angular step selectable	0.2° to 0.0125°
Angular scanning range	100° vertical (-40° to +60° with no camera), 360° horizontal





### Digital Camera *(Optional)*

Type	20 MP CMOS HDR digital panoramic camera
Pixel resolution	147 MP
Angular range	60° vertical, 360° horizontal
Acquired	During laser scan
Exposure control	User definable
Lens	Zeiss 28mm, with filter
Image render method	Corrected image automatically rendered to scan in I-Site Studio
Depth of field	5m 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"

\* Time to perform a 20 minute scan.

¶ Assumes no metallic objects or magnetic field interference.

† Firing at 50kHz for high resolution scans. Based on returns from flat normal targets and good atmospheric conditions.

‡ Under Maptek test conditions at 65 metres.

Information subject to change.  
Correct at November 2017.