

SCANNER CAPABILITIES



General

Size	455h x 246d x 378w
Weight	14kg, without battery
Battery [internal]	Interchangeable, NiMh 3 hours operation (optional LiO 4.5 hours)
Levelling	20" (internal compensator)
Constant operating temp.	0° to +50°C (short exposure* -40° to +50°C)
Reliability	ISO 9022
Protection class	IP-65 (IEC 60529)
Data recorder	Ruggedised tablet PC via ethernet cable
Mounting	Standard tribrach mount
GPS mount	External 5/8" UNC thread
Carry case	Customised storm case

Scanner

Maximum range [†]	>2000m Up to 1400m, reflectivity >80% Up to 1000m, reflectivity >40% Up to 500m, reflectivity >10%
Minimum range	2.5m
Range accuracy [†]	10mm
Repeatability [†]	±8mm
Exit aperture	<8mm
Beam divergence	0.25mrad (1/e ² radius)
Acquisition rate	8800 points per second
Product laser class	Class 1 IEC60825-1:2007
Wavelength	Near IR
Intensity measurement	Yes
Angular step selectable	0.2° to 0.0125°
Angular accuracy [§]	0.01°
Angular measurement res.	0.001°
Angular scanning range	80° vertical, 360° horizontal

Digital Camera

(Included in system)

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

(Included in system)

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 10-minute scan. Contact Maptek for further information when operating at temperatures below -20.

[†]Under normal operating conditions. Based on returns from flat targets normal to the beam assuming target area exceeding spot size. Atmospheric and light conditions will affect the maximum range.

[‡]Under Maptek test conditions.

[§]Refers to angular pointing accuracy. Does not factor cumulative errors due to other influences including range and levelling errors.

Information subject to change