

SCANNER CAPABILITIES



General

Size	455mm x 216mm x 378mm (h x d x w)
Weight	12kg, without battery
Battery [internal]	LiO 2.5 hours operation
Levelling	±5°
Constant operating temp.	0 to +50°C (short exposure* -40° to +50°C)
Reliability	ISO 9022
Protection class	IP-65 (IEC 60529)
Data recorder	On board / optional tablet (HHC)
Mounting	Standard tribrach mount
GPS mount	External 5/8" UNC thread
Carry case	Customised case

Scanner

Operating range†	700m, reflectivity > 80% (white paint, limestone) 500m, reflectivity > 40% (iron ore, concrete) 250m, reflectivity > 10% (coal, black paint)
Maximum range	>1000m off retro reflectors
Minimum range‡	2.5m
Range accuracy‡	20mm
Repeatability‡	±10mm
Exit aperture	<10mm
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 0.1° (0.2° to 0.025° with optional tablet)
Digital compass§	±2°
Angular measurement res.	0.001°
Angular scanning range	80° vertical, 360° horizontal

*Time to perform a 10-minute scan. Contact Maptek for further information when operating at temperatures below -20°C.

†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.

§Without magnetic interference.

Information subject to change