

# MAPTEK™ I-Site 8810

## TECHNICAL SPECIFICATIONS

Extra long range laser scanner combined with a high resolution digital panoramic camera.

Tough > Reliable > Proven



### GENERAL

Size	455h x 246d x 378w
Weight	14kg, without battery
Battery	Interchangeable, LiO 2.5 hours operation
Levelling	20" (internal compensator)
Constant operating temp.	0° to +50°C (Short exposure* -40° to +50°C)
Storage temperature	-40° to +70°C
Compass <sup>†</sup>	±1°
Reliability	ISO 9022
Protection class	IP-65 (IEC 60529)
Data recorder	Wireless ruggedised PC plus onboard USB
Mounting	Standard tribrach mount
GPS mount	External 5/8" UNC thread
Carry case	Customised case

### SCANNER

Maximum range <sup>†</sup>	>2000m Up to 1400m, reflectivity >80% Up to 1000m, reflectivity >40% Up to 500m, reflectivity >10%
Minimum range	2.5m
Range accuracy <sup>‡</sup>	8mm
Repeatability	±8mm
Exit aperture	<8mm
Beam divergence	0.25mrad (1/e <sup>2</sup> 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 <sup>§</sup>	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 20 minute scan. Contact Maptek for further assistance

¶ Assumes no metallic objects or magnetic field interference

† Under normal operating conditions. Based on flat normal returns and good atmospheric conditions

‡ Under Maptek test conditions

§ Pointing accuracy