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

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Range 40Khz
Range 80Khz
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.