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

**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**
- ±1°

**Internal GPS**
- L1

**Quality certified**
- ISO 9022

**Protection class**
- IP65 (IEC 60529)

**Data recorder**
- Onboard USB plus wireless ruggedised tablet controller

**Mounting**
- Internal ⅝” UNC thread & Tbolt slots

**GPS mount**
- External ⅝” UNC thread

**Carry case**
- Customised case

**Scanner**
- **Maximum range†**: 1200m off reflector
- **Minimum range‡**: 2.5m
- **Range accuracy‡**: 4mm
- **Repeatability‡**: ±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.