SPECIFICATIONS

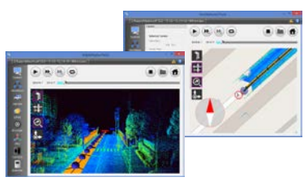
Timing box	
Dimensions	260 (W) x 160 (D) x 121 (H) mm
Weight	3.0Kg
Dustproof / Waterproof	IP65
Input Voltage	9V-36V
Cube	
Dimensions	300 (W) x 500 (D) x 600 (H) mm
Weight	18.0 Kg (including all sensors)
GNSS Receiver	
Number of channel	226 channel
GPS	L1 / L2 carrier, L1CA, L1P, L2P
GLONASS	L1 / L2 carrier, L1CA, L1P, L2P
Data update	10Hz
Static survey accuravy	H : ±3.0mm +0.5mm / V : ±3.0mm +0.5mm
Kinematic survey accuracy	H : ±10mm +1ppm / V : ±15mm +1ppm
Dustproof / Waterproof	IP67
IMU	
Gyro bias stability	1° / hr
Acceleration bias stability	7.5 mg
Laser scanner	
Point density	700000 points / sec
Valid range	100m
Dustproof / Waterproof	IP67
Spherical camera	
Camera unit	CCD camera (6 pcs)
Maximum resolution	8000 x 4000 pixel
Maximum image capturing speed	10 fps
Wheel encoder	
Pulse rate	2500 PPR
Dustproof / Waterproof	IP67

High-speed and more automated post-processing software

Mobile Master Field (MMF) software

The MMF software monitors and controls IP-S3 data acquisition with simple operation.

- With intuitive menus, operation in the cockpit is stress-free.
- Status of all connected sensors can be monitored in real time.
- The included Play Back function to preview the acquired data along with the driven route to check, before going back to the office, if all the necessary area has been measured and data are captured.

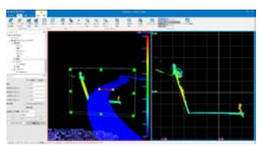


Collage

MAGNET™ Collage

Change Seamless Site to 3D with Point Cloud Integration! MAGNET Collage is Post Processing Software on office PC.

- Fast Processing 3D Mass Data
- Easy to use with Slice (Cross Section) View
- Integrate MMS point cloud date with the one generated from Laser Scanner or UAV.



MAGNET™ Collage Web 3D Mass Data Viewer (Optional)

MAGNETTM Collage Web is the web application to view point cloud mass data via the web browser. It can show slice view, measure a distance and calculate an area so you can check more detail information.

TOPCON

TOPCON CORPORATION
75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, Japan
Phone: (+81)3-3558-2993 Fax: (+81)3-3960-4214
www.topcon.co.jp

Your local Authorized Dealer is:

IP-S3 HD1

3D Mass Data
Software Solution
MAGNET Collage Compliant!

TOPCON

IP-S3 HD1

Mobile Mapping System

MAGNET™ Collage Web

View 3D Mass Data Quickly on Web Browser!

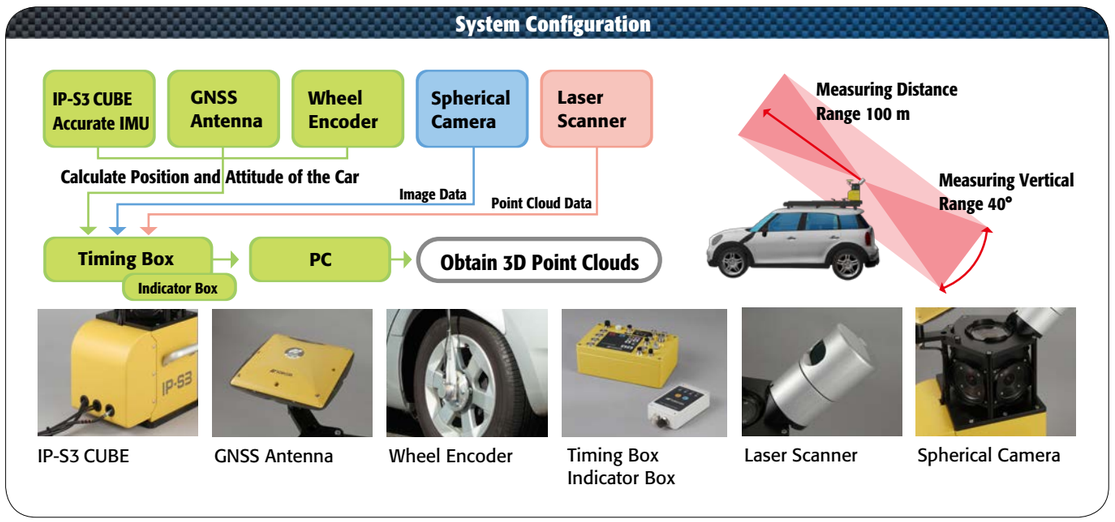
Superior performance for collecting high-density point clouds in a compact and light weight body

- Easy mounting setup
  Ultra-compact and lightweight design
- High-speed and high-density point cloud acquisition
- Portable carrying case ensures security
- Efficient for mapping and GIS data updating
- World's first Play Back function to check and review the acquired data

IP-S3 HD1

Efficiently collect massive spatial data with high-density 3D Point clouds data over a large area.

Position, image and point cloud data all are collectively acquired



Highly effective to obtain 3D spatial information in shorter time and in lower cost.

Ultra-compact, lightweight

The IP-S3, in a twice as compact design as its predecessor, enables mounting and set up even on a small car which can drive relatively narrow street.
Only one person is required to mount and dismount the system on to and from a car roof.

Acquire high-density point cloud data

IP-S3 obtains high-quality data.
High-speed scanning of 700,000 points-per-second provides detailed shapes of objects along the driving route. Six 5 MP cameras, capture the high-resolution image data of 360 degrees around the car.

Instant preview of acquired data

Play back function to view the data along with the driving route, just after completing the session.
This ensure if the data covers what are necessary to acquire, before return to the office.

Portable carrying case for easy transport and secure storage

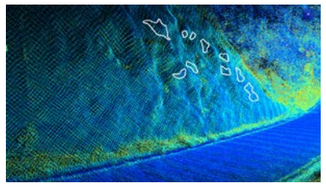
A portable carrying case is provided to protect the system for transportation and storage.
It can be easily taken to a secure area to avoid damage or theft during overnight trips.

3D point cloud data can be utilized for a variety of applications

Topo measurement at civil engineering site

Topographic Mapping

Investigation at Steep slope surface



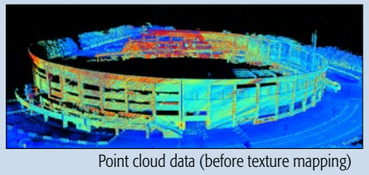
Landscape Simulation

Measurement

Drive through the area that need to be measured

Acquired Data

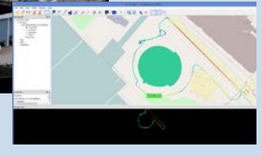
Omnidirectional Image



Point cloud data (before texture mapping)

ProcessingPost

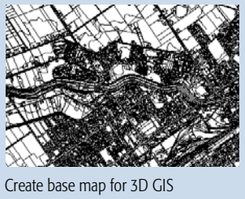
Point cloud data (after texture mapping)



Car Trajectory

Different Applications

Road Signs/White Line



Create base map for 3D GIS