imajbox® 3

TECHNICAL SPECIFICATIONS

IMAJBOX® 3S

FOR GIS ROAD MAPPING

Portable mobile mapping system designed to survey linear infrastructures from any vehicle.

A versatile tool

Mounted on cars or trucks, imajbox® can survey from a few to thousands of kilometers.

Punctual, recurrent or nationwide projects, imajbox® is the perfect tool to survey a network, thus having up-to-date data.





A response to many issues:

- GIS and mapping
- Infrastructure assessment
- Engineering studies
- Linear Referencing System
- Maintenance management
- Work control
- Planning and budgeting
- Monitoring...



ACCURATE

Proprietary algorithms to process sensors' raw data for the continuous and accurate spatial positioning



SIMPLE

Independant, all-in-one, standalone and autocalibrated. No wiring required.



PRODUCTIVE

High speed survey for large scale data collection.



CONNECTED

Controlled by WiFi and connectors for external sensors integration.



ADJUSTABLE

Easily mounted in every orientations with the tripod's succion pads.





imajbox® 35

GNSS RECEIVER

32 channels for simultaneous tracking of all visible satellites

GPS: L1 **GLONASS: L1** Galileo: F1

SBAS: EGNOS, WAAS, GAGAN, MSAS

 Supported real time modes: Standalone, SBAS

- Supported post processed modes: dGNSS (GPS+GLONASS) EMS (EGNOS SBAS in post process)

MODE	HORIZONTAL ACCURACY
Standalone	2m
SBAS	1m
dGNSS	0.5m

Time to first fix: Cold start < 45s Warm start < 20s

ANTENNA

- Integrated GPS/GLONASS/GALILEO antenna
- Connector for external antenna (SMA) Auto-switch to an external antenna (50ohms load)
- ··· Patch antenna for external use: GPS/GLONASS L1 patch antenna
- ··· Interface for lever arm input

IMU

DX3 inertial mouvement unit 6 axis

Gyroscopes:

Dynamic range: ± 280°/s In-run bias stability: 12°/hr Angular random walk: 0,56/\/hr

Accelerometers: Dynamic range: ± 5g

In-run bias stability: 0,25mg Velocity random walk: 0.073m/sec/vhr

IMAGE SENSOR

- Sensor
 - Single CMOS Global Shutter 8,9MP
- - Standard: 4096x2160 pixels
- Auto-trigger Inter distance of image acquisition configurable (from 0,5m to 10m).
- Maximum Frame rate 10fps (full resolution)
- Ultra-fast auto-exposure 3 zones presets
- Optimized debayering

OPTICS

- ··· Fixed focus multi-lens
- ··· Deep depth of field Sharp from 0,5 to 100m from camera
- ··· HFoV 100°

STORAGE

- Internal SSD 128 GR
- Support for real time external storage via USB3 (Pendrive, HDD, SSD)
- Data management interface for copying from internal SSD to USB
- Support for Ethernet SAMBA share for accessing internal SSD directly

CONNECTIVITY

USB 3

Fthernet

Wi-Fi host (for web remote control) Wi-Fi client (for corrections)

SOFTWARE

imajbox® is delivered with Post processing software for Windows X64:

imajing browser

imajing 3D Pro

imajing tight hybrid algorithms

OPERATIONAL LIMITS

- Survey speed 0 to 130 km/h
- Temperature -10°C to 40°C

HARDWARE

Dimensions

Height: 175 mm Length: 165 mm Width: 145 mm

Weight

2 kg

Power supply

12V / 3A

Internal battery for 3h standalone survey

Package

1 unit delivered in a small fly case

3 succion pads

1 USB Pendrive 128GB

1 external patch antenna

Security strap

Cigarette lighter power supply cable

AC/DC converter 110/240V 12V 3A



