

imajbox[®]

MOBILE MAPPING SYSTEM

Mounted on cars, trucks or trains, 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.



ACCURATE

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



SIMPLE

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



PRODUCTIVE

High speed survey for a large scale data collection.



CONNECTED

Controlled by WiFi and connectors for external sensors integration.

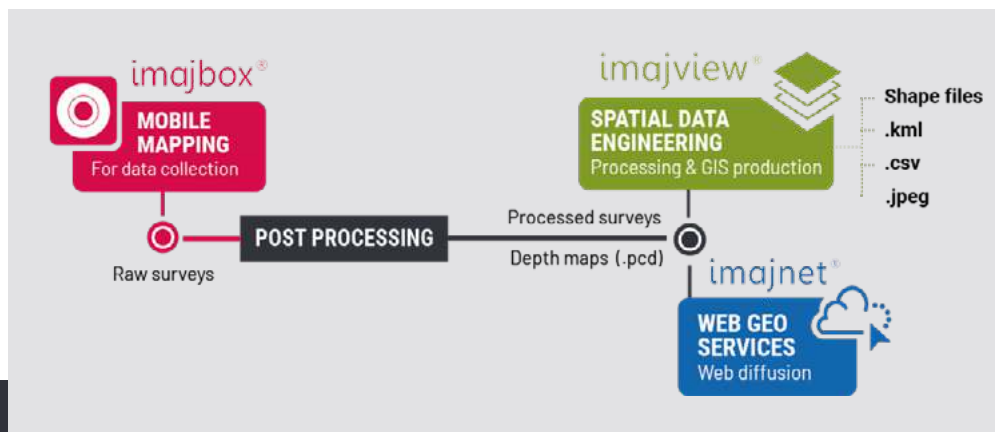


ADJUSTABLE

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

A RESPONSE TO MANY ISSUES:

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



IMAJING SAS

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INERTIAL MOVEMENT UNIT (IMU)

DX3

Gyroscopes:

Dynamic range: $\pm 280^\circ/s$
 In-run bias stability: $12^\circ/hr$
 Angular random walk: $0.56/\sqrt{hr}$

Accelerometers:

Dynamic range: $\pm 5g$
 In-run bias stability: $0,25mg$
 Velocity random walk: $0.073m/sec/\sqrt{hr}$

DX4

Gyroscopes:

Dynamic range: $\pm 480^\circ/s$
 In-run bias stability: $6.25^\circ/hr$
 Angular random walk: $0.3/\sqrt{hr}$

Accelerometers:

Dynamic range: $\pm 18g$
 In-run bias stability: $0,1mg$
 Velocity random walk: $0.029m/sec/\sqrt{hr}$

PACKAGE

- 1 unit delivered in a small fly case
- 3 suction pads
- 1 USB Pendrive 128GB
- 1 external patch antenna (L1/L2)
- Security strap
- Cigarette lighter power supply cable
- AC/DC converter 110/240V 12V 3A



| SPECIFICATIONS | 3S | 3SX+ | 3TX+ |
|---|------------------------------------|----------------------------------|---|
| Image sensor Single CMOS Global Shutter 8,9MP | ● | ● | ● |
| Resolution 4096 x 2160 pixels | ● | ● | ● <i>(Cropped for high speed: 2816 x 2160)</i> |
| HFOV 100° | ● | ● | ● |
| Maximum frame rate 10fps (full resolution) | ● | ● | ● <i>High speed mode: 17fps</i> |
| IMU 6 axis (details on the left) | DX3 | DX4 | DX4 |
| Real time GNSS (NTRIP corrections) | | | |
| Standalone | ● | ● | ● |
| SBAS | | | ● |
| DGNSS | | ● | ● |
| RTK | | ● | ● |
| Post Processed (RINEX corrections) | | | |
| Standalone | ● | | ● |
| SBAS | ● | | ● |
| DGNSS | ● | | ● |
| PPK | | | ● |
| GNSS tracked frequencies | | | |
| GPS | L1 | L1, L2 | L1, L2, L5 |
| GLONASS | L1 | L1, L2 | L1, L2, L3 |
| Galileo* | E1 | E1, E5 | E1, E5a, E5b, AltBoc |
| BeiDou | | | B1, B2 |
| SBAS | | | EGNOS, WAAS, GAGAN, MSAS, SDCM (L1, L5) |
| QZSS | | | L1, L2, L5 |
| Integrated dual channel L-Band receiver | | | ● |
| Absolute accuracy x, y, z (DRMS)* | 0,5m <i>(with DGNSS)</i> | 0,1m <i>(with RTK)</i> | 0,1m <i>(with PPK)</i> |
| Internal SSD (512 GB optional) | 128GB | 128GB | 128GB |
| Application | Road | Road | Road / Rail |
| Maximum speed | 130 km / h | 130 km / h | 300 km / h |
| Connectivity | | | |
| USB 3 / Ethernet / Wi-Fi host (for web remote control) | ● | ● | ● |
| Wi-Fi client (for corrections) | | ● | ● |

HARDWARE

Operational limits: $-10^\circ C$ to $+40^\circ C$
Protection level: IP 65
Dimensions: 175 x 165 x 145
Weight: 2 kgs
Internal battery: 3h
Power supply: 12 V / A

SOFTWARE

imajbox® is delivered with Post processing software for Windows X64:
 imajing browser
 imajing 3D Pro
 Kinematic post processing module
 imajing InertialVision fusion algorithms

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