

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.

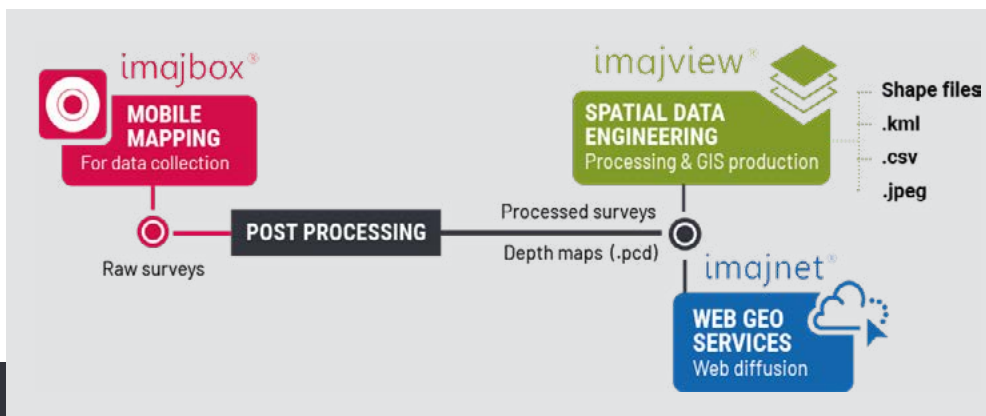


FLEXIBLE

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

A RESPONSE TO MANY ISSUES:

- GIS and mapping
- Engineering studies
- Linear Referencing System
- Maintenance management
- Work control
- Planning and budgeting
- Monitoring
- Asset inventory



IMAJING SAS

2 chemin des Carmes Mail: info@imajing.eu
31670 Labège, France Phone: +33 (0)5 32 10 81 70

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: 2200 x 2160)</i>
HFOV 100°	●	●	●
Maximum frame rate	10 fps	10 fps	17 fps <i>(high speed mode)</i>
IMU 6 axis (details on the left)	DX3	DX4	DX4
Real time GNSS (NTRIP corrections)			
Standalone	●	●	●
SBAS			●
DGNSS		●	●
PPP			●
RTK		●	●
Post Processed GNSS (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	B1, B2
SBAS			EGNOS, WAAS, GAGAN, MSAS, SDCM (L1, L5)
QZSS			L1, L2, L5
L-Band (Terrastar)			●
Absolute accuracy of extracted data			
X, Y	< 0,5m DRMS <i>(with DGNSS)</i>	< 0,1m CEP <i>(with RTK)</i>	< 0,1m DRMS <i>(with PPK)</i>
Z	< 2m	< 0,2m	< 0,1m
Internal SSD (512 GB optional)	128GB	128GB	128GB
Application	Road	Road	Road / Rail
Maximum speed	180 km / h	180 km / h	306 km / h
Connectivity			
USB 3 / Ethernet / Wi-Fi host <i>(for web remote control)</i>	●	●	●
Wi-Fi client (for corrections)		●	●

HARDWARE

Operational limits: -10°C to +40°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
 imajing tight hybrid algorithms *(only for 3S)*
 imajing InertialVision fusion algorithms *(only for 3SX+ and 3TX+)*
 Kinematic post processing module *(only for 3TX+)*

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 31670 Labège, France Phone: +33 (0)5 32 10 81 70
 SIRET 50879467400020