



imajbox®

Mobile mapping system

ACCURACY MADE EASY

GIS and mapping

Infrastructure assessment

Engineering studies

Maintenance management



DESIGNED FOR DATA COLLECTION ALONG TRANSPORTATION AND LINEAR NETWORKS

▶ ACCURACY

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

▶ SIMPLICITY

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

▶ PRODUCTIVITY

High speed survey for a large scale data collection.

▶ FLEXIBILITY

Controlled by WiFi and connectors for external sensors integration. Adjustable on cars, trucks, trains or boats.

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: $\pm 900^\circ/s$
 In-run bias stability: $0.12^\circ/s$
 Angular random walk: $0.3/\sqrt{hr}$

Accelerometers:

Dynamic range: $\pm 40g$
 In-run bias stability: $0,1mg$
 Velocity random walk: $0.004m\mu g/sec/\sqrt{hr}$

ALL-INCLUDED PACKAGE

- Delivered in a fly case including the unit, the car roof mounting system, external power supply cables and post-processing softwares.



SPECIFICATIONS	3SX+	3TX+	360	360 HD
CMOS global shutter	8,9 MPX		30MPX	72MPX
Resolution <i>*(Cropped for high speed: 2816x2160)</i>	4096 x 2160 pixels	4096 x 2160* pixels	8192x4096 pixels	12288x6144 pixels
HFOV	100° flat		360° equirectangular	
Maximum frame rate (full resolution) <i>*High speed mode</i>	10fps	17fps*	10fps	
IMU 6 axis (details on the left)	DX4			
Real time GNSS (NTRIP corrections)				
Standalone	●		●	
SBAS			●	
DGNSS	●		●	
RTK	●		●	
Post Processed GNSS (RINEX corrections)			●	
GNSS tracked frequencies				
GPS	L1C/A, L2C		L1, L2, L5	
GLONASS	L10F, L20F		L1, L2, L3	
Galileo	E1, E5b		E1, E5a, E5b, AltBoc	
BeiDou	B1, B2		B1, B2	
SBAS			EGNOS, WAAS, GAGAN, MSAS, SDCM (L1, L5)	
QZSS	L1C/A, L2C		L1, L2, L5	
Positioning platform (DRMS)				
Accuracy X, Y	0,05m		0,01m	
Accuracy Z	0,2m		0,02m	
Internal SSD	128GB	512GB	1TB	2TB
Application	Road		Road / Rail	
Maximum speed	180 km/h	300 km/h	130 km/h	
Housing	Aluminium			
Weight	3 kg		11 kg	14 kg
Size	17,5x16,5x14,5 cm		36x36x52cm	36x36x54cm
Connectivity	USB 3 / Ethernet / Wi-Fi host (for web remote control) Wi-Fi client (for corrections)			
Operational limits	-10°C to +50°C			
Protection level	IP 65			
Internal battery	3 hours		2 hours	
Power supply	12 V / 3A			
Included softwares				
imajing browser	●	●		●
Kinematic post processing module (PPK)		●		●
imajing InertialVision fusion algorithms	●	●		●
imajing 3D Pro	●	●		
Not included Production software	imajview® 4 & 5		imajview® 5	

HARDWARE

SOFTWARE