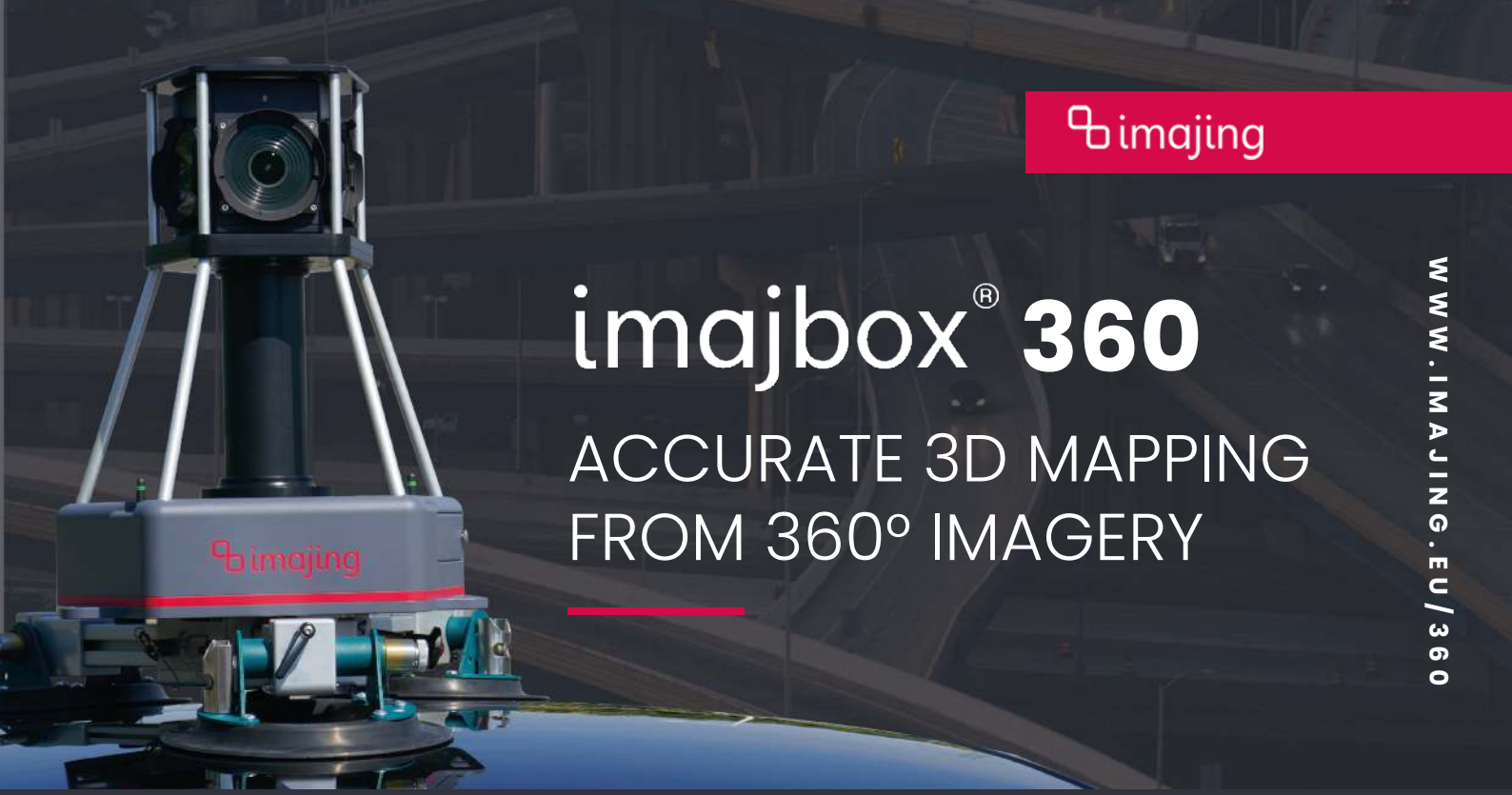

imajing

imajbox® 360

ACCURATE 3D MAPPING FROM 360° IMAGERY

WWW.IMAJING.EU/360

imajbox® 360 is a standalone mobile mapping system producing 3D data from 360° imagery.

Designed to be efficient on all aspects:

Simple

Safe and quick mounting system for any vehicle. Setup in a minute, no cabling.
One person to operate,
Full remote control from any smartphone.

Accurate

High accuracy positioning platform combining GPS, GLONASS, GALILEO, BEIDU multifrequency GNSS receiver, 6 axis high end IMU, and IMAJING InertialVision fusion algorithms. Supports RTK and PPK positioning for sub-centimetric accuracy.

Productive

High capacity extractible storage, operating standalone on battery for 2h or power supply with a simple cigarette lighter socket.
Full auto-calibration and continuous acquisition for large scale coverage and up to 130km/h.

Applications:

- MAPPING, INVENTORY
- MONITORING, CHANGE DETECTION
- WORK CONTROL
- IMMERSIVE VIRTUAL VISIT
- SMART CITY
- PAVEMENT MANAGEMENT

All-in-one and ready to survey

Fast setup, no cabling.
1 minut to be ready to survey.

All included capture system, with battery, storage and WiFi remote control.

Delivered in a fly case and ready to use.

imajbox® 360

IMAGERY

CMOS global shutter image sensor	30MPX Panorama (equirectangular) 12 bits acquisition Auto shutter Auto white balance
Auto-trigger	Inter distance configurable from 1m to 10m between panoramas
Resolution	8192x4096 pixels
Deep depth of field	Sharp from 0,5 to 100m from camera
HFOV	360°
Maximum frame rate	10fps

IMU

High end IMU 6 axis MEMS IMU DX4	***Gyroscopes:*** Dynamic range: ± 480°/s In-run bias stability: 6.25°/hr Angular random walk: 0.3/√hr ***Accelerometers:*** Dynamic range: ± 18g In-run bias stability: 0,1mg Velocity random walk: 0.029m/sec/√hr

POSITIONNING PLATFORM

Real time GNSS (NTRIP corrections)	Standalone, SBAS, DGNSS, RTK
Post Processed GNSS (RINEX corrections)	Standalone, SBAS, DGNSS, PPK
GNSS tracked frequencies	GPS (L1, L2, L5) GLONASS (L1, L2, L3) Galileo (E1, E5a, E5b, AltBoc) BeiDou (B1, B2) SBAS (EGNOS, WAAS, GAGAN, MSAS, SDCM QZSS (L1, L2, L5)
Positionning platform (DRMS)	Accuracy X, Y: 0,01m Accuracy Z: 0,02m

HARDWARE

Housing	Aluminium
Weight	11 kg (imajbox®) 9kg (roof mounting system)
Size	36x36x52cm
Connectivity	USB 3 / Ethernet / Wi-Fi host (for web remote control) Wi-Fi client (for corrections)
Operational limits	-10°C to +40°C
Protection level	IP 65
Internal battery	2 hours
Power supply	12 V / A
Survey speed	Up to 130 km/h
Storage	1TB extractible SSD

SOFTWARE

Desktop software (not included): imajview 5

Included post processing softwares

imajing browser
Kinematic post processing module (PPK)
imajing InertialVision fusion algorithms

ALL-INCLUDED PACKAGE

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