AeMobileMapping

High resolution

High performance LiDAR and 3D photography system.

Light and compact

The system is solid, light and compact.

Power consumption

Low power consumption during data capture.

Set up

It can be installed in any vehicle through the popular Thule system.

Centralized control

AeMissión controls the entire data collection and management process.

Storage

Excellent structure and management in data storage on SSD disks.

"AeMobileMapping is a compact and multifunctional system to carry out your projects"

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AeMobileMapping

AeMobileMapping is a solution for ground mobile projects which it uses LiDAR technology and 3D photography.

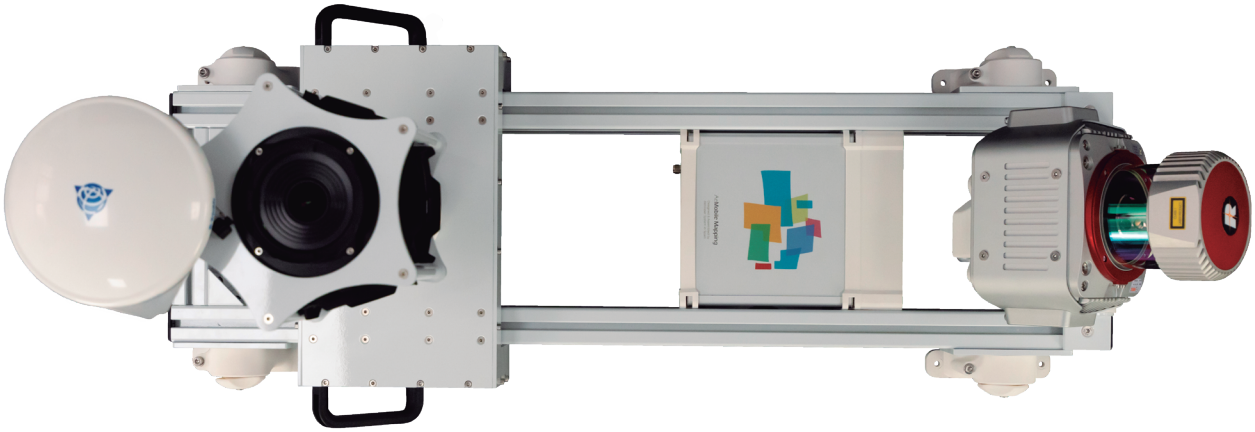
It is configured by the Riegl VUX-1HA laser scanner, it is a 360º laser scanner (FOV), a pulse repetition rate of more than 1MHz and 5mm precision. For the 3D photography section it is used the Ladybug 5+ camera, which offers high image quality and spherical precision. The 6 lens camera generates individual 30MP images and can achieve 8k30 and 4k30 content.

The scanner could be set it up in 5 different yaw and pitch positions to attend to any type of ground mapping, and 3 camera fixation positions in order to adapt it to any vehicle.

The odometer provides one more input for measurements with poor quality GPS navigation during data collection.

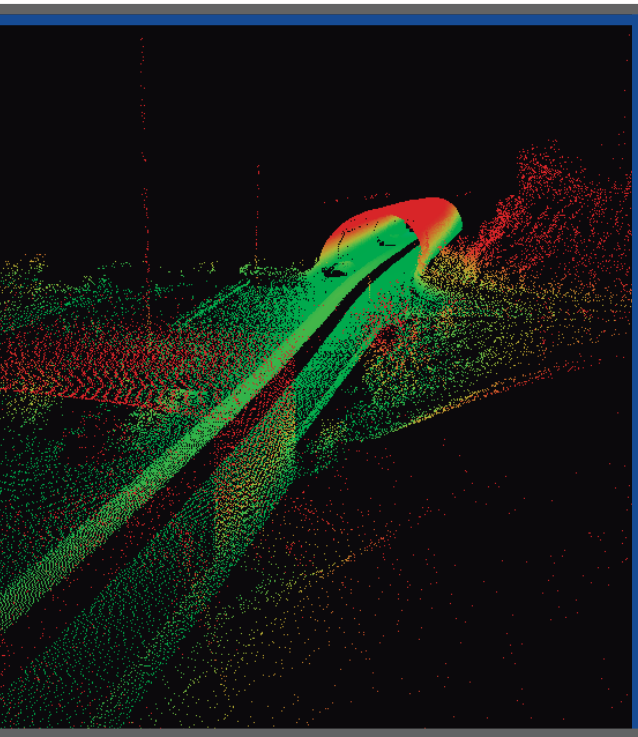
The control of the entire system is with a single computer in a 19 " rack format to facilitate the fixing of the equipment inside the vehicle that transports it. Storing all the information on removable SSD hard drives.

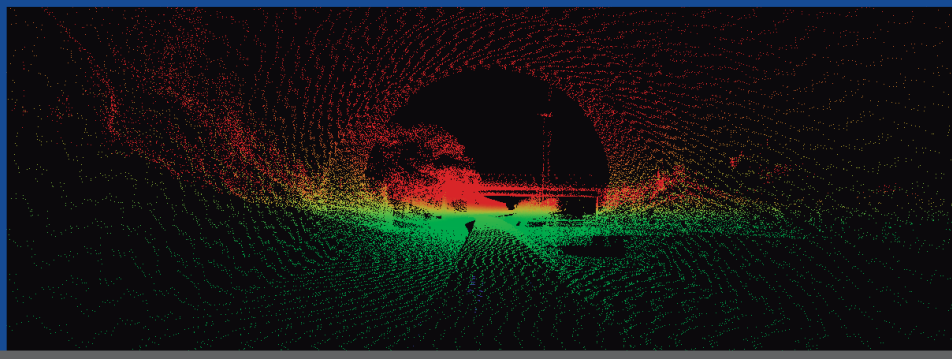
Installation of the system on the vehicle is through the popular Thule fastening system.

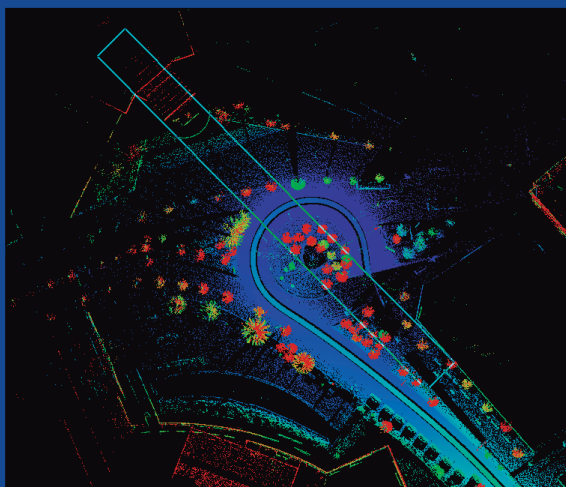


Technical data

EQUIPMENT	BRAND AND MODEL
Laser scanner	Riegl: VUX-1HA
IMU (Inertial Measurement Unit)	SENSONOR STIM300
360º spherical camera	Ladybug 5+
Odometer	Peiseler MT1000/e
GNSS	Trimble BD940
GNSS Antenna	Trimble Zephyr 3 Rover
Synchronization and power unit	AeCU_Drone
PC	AePCRackU2
Software	AeMission
Peripheral devices	Screen XF1000V2 / 10,4'' / 1200 nits
Mounting structure	Thule wingbar





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