



AeSystem VUX

Lightweight scanner

It is equipped with a Riegl VUX-1LR laser scanner, designed to acquire LiDAR data from aircrafts, making it possible to perform well even under adverse weather conditions.

High resolution

The quality of the georeferenced cameras we can add to this system allows us to achieve a high level of detail. Moreover, it adds value to the projects and facilitates a more comprehensive assessment of them.

Centralized control

AeMission enables a full control of the data acquisition process, assisting with the flight navigation and the modification of adjustments or parameters of the sensors in real time and in a very easy way.

“We adapt our system to different technical requirements or projects”



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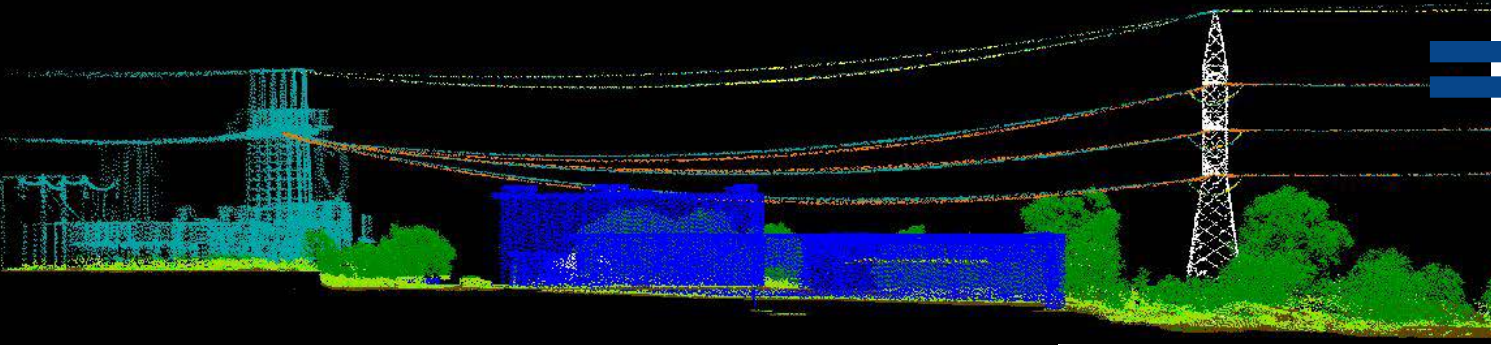
AeSystem VUX is equipped with a Riegl VUX-1LR laser scanner, very light and compact, which has been designed to acquire LiDAR data from an aircraft, making it possible to perform well even under adverse weather conditions.

The versatility of the product enables us to adapt our system to different technical demands or projects, with the ability to add several cameras if necessary.

It is possible to add a thermal camera, to help us find both potential hot spots in installations and fire outbreaks.



EQUIPMENT	BRAND AND MODEL
Aerial laser scanner	Riegl VUX-1LR
IMU (Inertial Measurement Unit)	IMAR IMU-FSAS-NG, IMAR IMU-FSAS-HP KVH 1725, KVH 1750, KVH 1775, KVH CG-5100 SENSOR STIM300
Aerial digital photo camera RGB / NIR	PhaseOne IXM-RS 150F, IXM-RS 100F Lens according to the project requirements
Aerial digital photo camera RGB	Sony alpha 7R mark IV E-mount lenses
Thermal camera	VarioCam HD Head 800
Video	Sony FBC-ER8350 Camera Block
GNSS	Javad TR-GN Trimble CBD940
GNSS Antenna	ANTCOM
Synchronization and control unit	AeCU 2.3
PC	AePC
Software	AeMission
Peripheral devices	Sunlight readable screens
Equipment container (box)	AePod
Mounting structure	Certified mounting



LiDAR point clouds



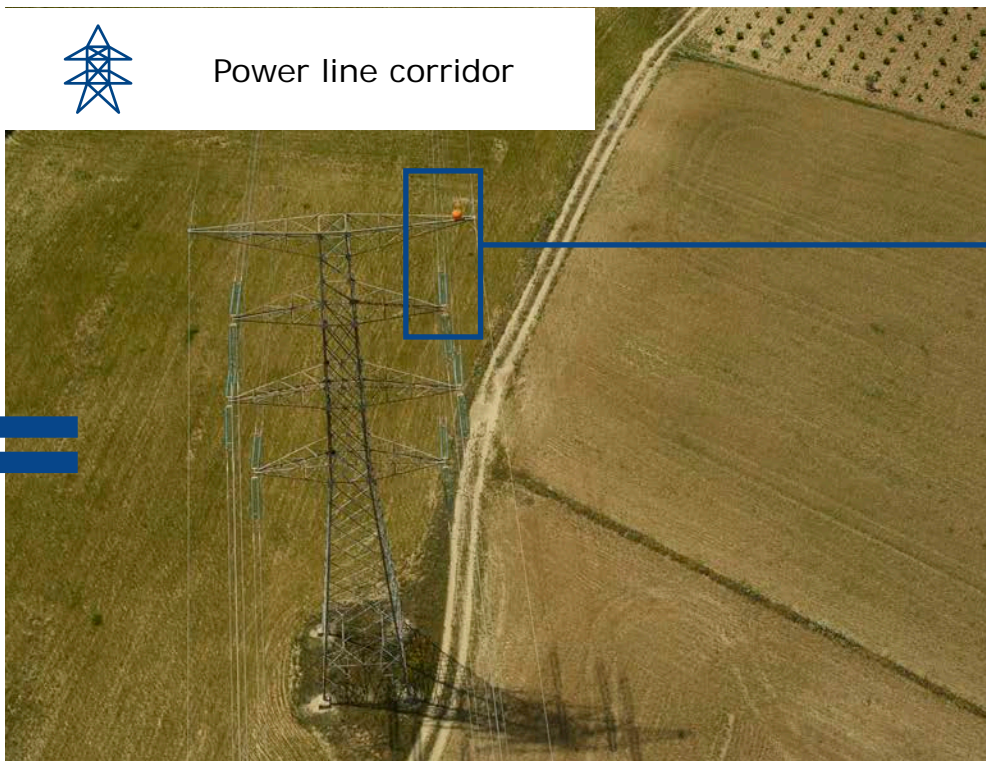
Corridor mapping

This combination of laser scanner and oblique RGB camera makes this system a very useful tool in power line inspections and corridor mapping.

Adding a georeferenced oblique camera to this system allows us to see details hardly noticeable with zenith cameras, with a pixel size that goes from 8 mm to 200 mm. This feature gives added value to air products.



Power line corridor



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