



LIDAR SWISS

MOBILE LASER SOLUTIONS



LS Micro Vux LR is the next generation LIDAR solution, a product suitable for both corridor and area mapping. Based on the Riegl VUX-1LR, survey grade FOG IMU, and including a 50mp RGB calibrated camera fully integrated. It can be operated at higher altitudes and covers more area on either manned, unmanned platforms or for mobile mapping.

LS Micro Vux LR automatically collects highly accurate laser and image data via its onboard system controller. It can produce DOMs, DEMs, DSMs and DTMs which may be further processed to produce 3D models for various industries.



Typical Applications

Powerline inspection/danger tree analysis.
River bank & coastal lines mapping.
Water resources monitoring.
Quick response mud slide analysis.
Disaster management.
Other 3D data applications.

The LS Micro Vux with the Swissdrones Combination has been delivered to various continents.

Features

820khz Pulse rate
330 deg FOV
1-200hz scan rate
FOG IMU
50mp RGB calibrated camera
Rugged system controller
Autonomous operation
One button startup
Weights 8.5kg
Fits medium size pelican case
Operating range 1350m
Up to 400pts/m²
Installation in minutes



- ◆ Area and corridor 3D data acquisition
- ◆ Terrain modelling for precision farming
- ◆ Stockpiles & volumetric calculations
- ◆ Historical site modelling
- ◆ Other corridor mapping
- ◆ Rapid and accurate distance measuring

Item

Laser class
Wave lenght
Laser beam divergence angle
Scanning range
Scanning angle
Pulse rate
Point desity
Scanning mechanism
Pitch/Roll accuracy
Heading accuracy
Recording media
Storage capacity
Image dimension
Voltage
Power consumption
Dimension (LxWxH)
Effective operating range
Weight
Working temperature
Storage temprature

Specification

1 class, eye safe
Near Infrared
0.5 mrad
5m to 1350m
User selectable to 330deg
820KHz
Up to 400+pts/m²
Rotating mirror
0.005 deg
0.017 deg
Win 10 system controller
256Gb
50 MP
12 - 30V
95W (Max.)
49cm × 22cm × 14cm
Conductors: 150m/other objects: 750m
8.5kg incl. cables
0 C to 40 C
0 C to 50 C

