

# GL-70 Datasheet



- *550khz pulse rate*
- *330 degree FOV*
- *1-200hz scan rate*
- *FOG IMU*
- *50MP calibrated camera*
- *Rugged system controller*
- *Autonomous operation*
- *One button startup*
- *Weighs 12kg*
- *Fits in one pelican case*
- *Operating range 500m*
- *Up to 400pts/m<sup>2</sup>*
- *Installs in minutes*

*Background Image: Laser data attributed by elevation at 150pts/m<sup>2</sup>*

GL-70 is our light-weighted, high density, intelligent UAV Lidar system, it is designed to acquire airborne data automatically for project design, 3D modeling and asset management. Equipped with Riegl's UAV laser scanner VUX-1, high resolution digital camera and IMU/GPS, GL-70 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:

- Powerlines patrol
- Water conservancy areas
- Pipelines
- Highways
- Small area mapping

GL-70 is especially suitable for high accuracy linear projects due to its robust design and high pulse rate. Its wide FOV (almost 360) increases the efficiency of each flightline.

# GL-70 Specifications

Item	Specs
Laser class	1 class, eye safe
Wave length	Near Infrared
Laser beam divergence angle	0.5 mrad
Scanning range	5m to 900m
Scanning angle	User selectable to 330deg
Pulse rate	Up to 550KHz
Point density	Up to 400pts/m <sup>2</sup>
Scanning mechanism	Rotating mirror
Pitch/Roll accuracy	0.015deg
Heading accuracy	0.03deg
Control unit	Win 7 GL system controller
Storage capacity	128GB
Single scanning swath	Up to 900m
Image sensor type	CMOS, 36mm×24mm
Image dimension	8688×5792
Effective operating range	Powerlines: 100m/Other objects: 500m
Voltage	12 - 30V
Power consumption	85W (MAX)
Dimension (L×W×H)	57cm×25cm×16cm
Weight	12kg
Working temperature	0°C to 40°C
Storage temperature	- 10°C to 50°C

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