

GLidar V1

Complete Multi-rotor UAV Lidar Solution



GLidar V1 System components



Ground control station



GLV mini Lidar



Intelligent battery



Intelligent battery charger

UAV	Vespertilio MultiCorn
Lidar	GLV mini Lidar system
Ground control station	Highly-integrated ground control system
Accessories	Intelligent battery, charger, special transport box, user manual



Special transport box



Special transport box

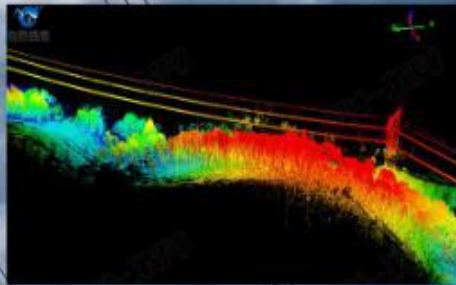
GLidar V1 Specifications

technical modules	Item	Specification	Remark	Item	Specification
Weight	Body Weight	4.5kg		Laser class	1 class, eye safe
	Battery weight	2.7kg		Wave length	Near Infrared
Dimension	Length	980mm		Laser beam divergence angle	3 mrad
	Width	930mm	After folding 580mm	Scanning range	0.5m to 100m
	Height	240mm	After folding 180mm	Scanning angle	User selectable to 360deg
	Diagonal distance of propeller	1220mm		Pulse rate	300KHz
Power	Propeller size	26inch		Point density	Up to 100+pts/m ²
	Power type	Brushless motor		Scanning mechanism	Rotating laser head
Energy resource	Energy resource	21Ah lithium battery		Pitch/Roll accuracy	0.05 deg
	Relative flying height	≤2000m		Heading accuracy	0.15deg
Operation	Ceiling altitude	≤4000m		Control unit	Win 8 GL system controller
	Temperature	0~40°C		Control System	Geo-controller
	Wind speed	Wind Resistance ≤ 14m/s		Storage capacity	128GB
Flight	Max cruise speed	50km/h		Single scanning swath	Up to 200m
	Economic speed	25km/h		Effective operating range	conductors : 20-30m/other objects : 80m
	Max time of flight	60min		Working temperature	0°C to 40°C
	Wind resistance	≤14m/s		Storage temperature	- 10°C to 50°C
Ground station Parameters :					
	Weight	2.0kg			
	Size	470×230×140mm			
	Screen size	10.9inch			
	Charge time	5.0h			
	Usage time	6.0h			
	Data transmission	Frequency/922.7-927.7MHz			
		Communication distance/10km			
	Image transmission	Frequency/5.725-5.850GHz			
		Communication distance/5km			

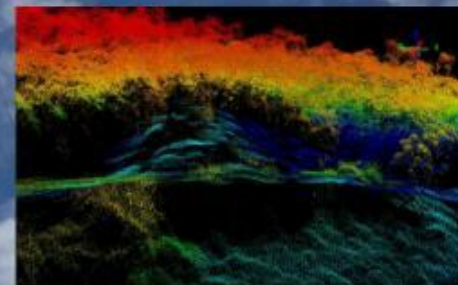


GLidar V1 Applications

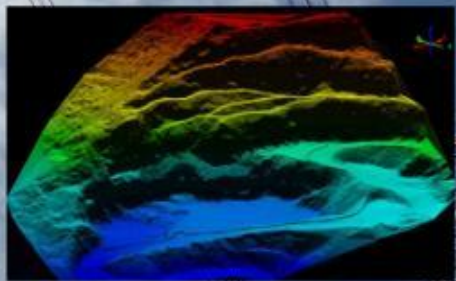
GLidar V1, a complete multi-rotor UAV Lidar system, consists of GLV mini Lidar, VesperTilio MultiCorn and ground station. GLidar V1's design is exquisite, with Lidar and UAV highly integrated in one piece, such design enables flight time to be up to 60 minutes. GLidar V1 can be applied to small area and corridor 3D data acquisition, rapid and accurate distance measuring, landslide analysis, Stockpiles & volumetric calculations, Historical site modelling, Mining Volume Calculation, vegetation penetration for the surface model and other corridor mapping.



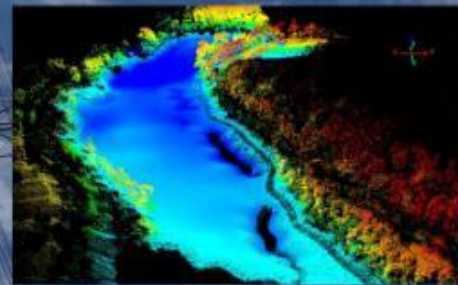
Powerlines



Mapping



Mining

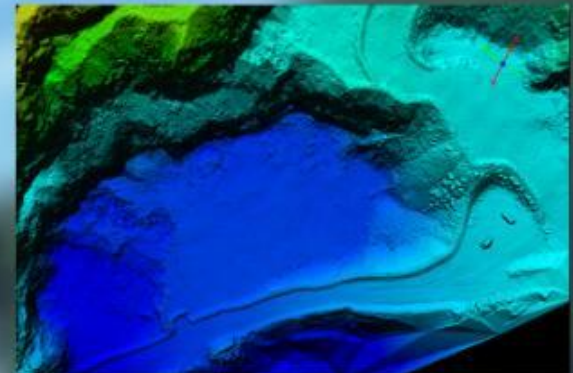
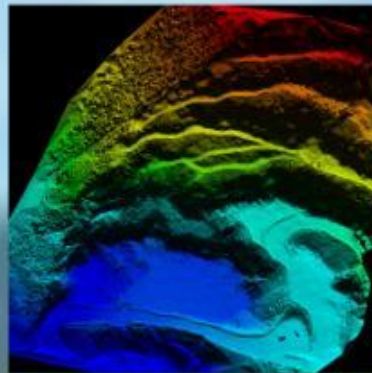
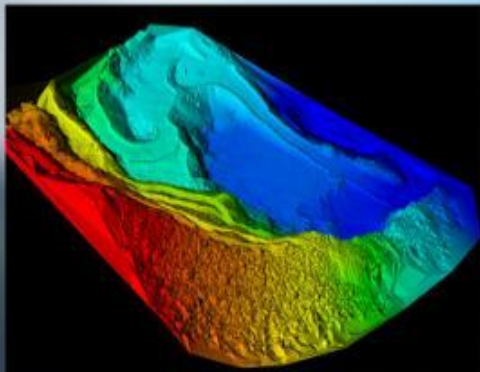


Other industries

GLidar V1 Application Case



Quzhou, Zhejiang Province, Mining Volume Calculation project with GLidar V1 , the flight height climbed from 40m to 180m , (The height of the flight increases with the height of the mine) , flight time was 40 minutes and flight speed was 5m / s ; Data accuracy met the requirements and the customer was very satisfied .



0571-81185691
www.geo-info.cn
Suite B1138, North Building, 368 Liuhe Road,
Binjiang District, Hangzhou, P.R.C 310011