



Wispr UAS options for payload

Wispr Ranger Series	Yes, 24-28 minutes flight time.
Wispr Ranger Pro Series	Yes, 30-35 minutes flight time.

General

Name	TRIDAR Avia LiDAR
Sensor Dimensions	5.0 x 3.8 x 2.4 in. (127 x 96 x 60 mm)
Weight	2.86lbs 1.3kg

LiDAR Sensor

LiDAR type	LiVOX Avia
IMU Attitude Acc	5.0 x 3.8 x 2.4 in.
IMU Position Acc	(127 x 96 x 60 mm)
MAX Points Per Second	150x168x220 mm (W, D, H)
Scan Rate	720,000 points/s (3 returns)
Field of View	70.4° (Horizontal) x 4.5° (Vertical)
Weight	2.2lbs 1kg
Storage	256 GB Provided (1TB supported)
System Accuracy	± 5 cm
Detection Range	320m@ 80% reflectivity 230m@ 20% reflectivity 190m@ 10% reflectivity
Range Accuracy	± 2 cm

Camera

Camera type	Sony a5100
Sensor	CMOS, 1" Effective Pixels: 24.3 MP
FOV	83° (16mm)
Photo Resolutions	6000 x 4000 (24.0 MP, 3:2), 6000 x 3376 (20.3 MP, 16:9)
Photo Formats	JPEG (EXIF 2.3), MPO (3D), RAW (compressed ARW 2.3), RAW+JPEG
Exposure Compensation	+/- 5.0EV in 0.3EV steps
ISO Range	100 - 25600 (Video) 100 - 25600 (Stills)

Environmental

Operating Temperature	-4° - 149°F (-20°C to 65°C)
IP Rating	IP 67



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