



Compatible Payload Specifications

LiDAR

Velodyne LiDAR	
Drone Compatibility	HEIFU Pro BVQ418
Size (D x H)	103 mm x 72 mm
Weight	590 g
Power	8 W
Channels	16
Measuring Range	Up to 100 meters
FOV	HFOV: 360° VFOV: 30° (+15° to -15°)
Points per Second	Approximately 300,000
Accuracy	±3 cm
Rotation Rate	5 Hz to 20 Hz
Connectivity	RJ45 / M12
Operating Temperature	-10 °C to +60 °C
IP Rating	IP67 Dust-tight / Water-Resistant



Livox Avia LiDAR	
Drone Compatibility	HEIFU Pro BVQ418
Size (L x W x H)	91 mm x 61.2 mm x 64.8 mm
Weight	498 g (without cables)
Power	8-9 W (Startup: 16 W)
Detection Range	Up to 320 m @ 80% reflectivity (100 klx)
Precision	2 cm (1 σ @ 20 m)
FOV	HFOV: 70.4° VFOV: 77.2°
Points per Second	Up to 720,000
Accuracy	±3 cm
Rotation Rate	5 Hz to 20 Hz
Connectivity	RJ45 / M12
Operating Temperature	-20 °C to +65 °C
Laser Wavelength	905 nm - Class 1 (IEC60825-1:2014)
IP Rating	IP67 Dust-tight / Water-Resistant



Ouster OS1 LiDAR	
Drone Compatibility	HEIFU Pro BVQ418
Size (D x H)	86 mm x 76.5 mm
Weight	425 g
Power	12 W - 15 W
Detection Range	Up to 120 m @ 80% reflectivity)
Precision	±1.5 cm
FOV	HFOV: 360° VFOV: 45° for 128 channel
Points per Second	Up to 2.62 million
Accuracy	±1.5 cm
Rotation Rate	10 Hz to 20 Hz
Connectivity	Gigabit Ethernet RJ45
Operating Temperature	-40 °C to +64 °C
Laser Wavelength	850 nm (Class 1 eye-safe)
IP Rating	IP68 Dust-tight / Water-Resistant