These are the three best options that Velodyne provided for utilization on a drone. Following will be information I could fine surrounding the LiDAR and how they compare to Hesai's Pandar XT-32.

Option One: Hesai Pandar XT-32 LiDAR

Price: Around \$4,000 Range: 0 - 120 m

Range Capability: 80m at 10% Reflectivity

Accuracy: 1 cm Precision: .5 cm

Vertical FOV: 31 Degrees Vertical Resolution: 1 Degrees Frame Rate: 5, 10, and 20 Hz

Horizontal Resolution: .18 degrees at 10 Hz

Ingress Protection: IP6K7

Operating Temperature: -20 to 65 degrees celsius

Weight: .8 kg

Dimensions: H76 mm x D103 mm

Power Consumption: 10 W

Operating Voltage: 9 to 36 V (DC)

Clock Source: GPS/PTP

Data Points Generated: 640,000 to 1,280,000 points/sec

Option Two: Puck LITE

Price: Around \$2,000 Channels: 16 Channels Range: 0 - 100 m Wavelength: 903 nm Accuracy: 3 cm

Enviormental Protection: IP67 Vertical FOV: 30 Degrees Vertical Resolution: 2 Degrees Rotation Rate: 5 to 20 Hz

Angular Resolution: .1 to .4 Degrees

Vibration: 5 Hz to 2,000 Hz

Operating Temperature: -10 to 60 degrees celsius Storage Temperature: -40 to 105 degrees celsius

Weight: 590 g

Dimensions: H72 mm x D103 mm





Power Consumption: 80 W Operating Voltage: 9 to 18 V

Data Points Generated: 300,000 to 600,000 points/sec

Option Three: Ultra Puck

Price: Around \$5,000 Channels: 32 Channels Range: 0 - 200 m Wavelength: 903 nm

Accuracy: 3 cm

Enviormental Protection: IP67 Vertical FOV: 40 Degrees

Minimum Vertical Resolution: .33 Degrees

Rotation Rate: 5 to 20 Hz

Angular Resolution: .1 to .4 Degrees Laser Product Classification: Class 1

Operating Temperature: -20 to 60 degrees celsius Storage Temperature: -40 to 85 degrees celsius

Weight: 925 g

Dimensions: Subject to Change Power Consumption: 10 W Operating Voltage: 10.5 to 18 V

Data Points Generated: 600,000 to 1,200,000 points/sec



Option Four: Puck Hi-Res

Price: Around \$5,000 to \$7,000

Channels: 16 Channels

Range: 0 - 100 m Wavelength: 903 nm Accuracy: 3 cm

Enviormental Protection: IP67 Vertical FOV: 20 Degrees

Vertical Resolution: 1.33 Degrees

Rotation Rate: 5 to 20 Hz

Angular Resolution: .1 to .4 Degrees Laser Product Classification: Class 1

Operating Temperature: -10 to 60 degrees celsius Storage Temperature: -40 to 105 degrees celsius

Weight: 830 g

Dimensions: Subject to Change

Power Consumption: 8 W Operating Voltage: 9 to 18 V

Data Points Generated: 300,000 to 600,000 points/sec

