





LiDAR Sensor

RIEGL Lidar Model	miniVUX-1	miniVUX-2	miniVUX-3	miniVUX-1LR
2. Image				
3. Scan FOV	360°	360°	360°	360°
4. Max. Range (80% reflectivity)	330m	330m	330m	500m
5. Min. Range	3m	3m	2m	5m
6. Measurement Accuracy	15mm	15mm	15mm	15mm
7. Repeatability Precision	10mm	10mm	10mm	10mm
8. Angle Resolution	0.001°	0.001°	0.001°	0.001°
9. Maximum Pulse Emission Frequency	100KHz	200KHz	300KHz	100KHz
10. Max. Measurement Rate	100 thousand meas./sec	200 thousand meas./sec	200 thousand meas./sec	100 thousand meas./sec
11. Max. Echo Times	5 times	5 times	5 times	5 times
12. Lidar Level	Level 1	Level 1	Level 1	Level 1
13. Scan Mode	Parallel Line Scanning	Parallel Line Scanning	Parallel Line Scanning	Parallel Line Scanning
14. Scan Speed	10-100 scans/sec	10-100 scans/sec	10-100 scans/sec	10-100 scans/sec
15. IP Level	IP64	IP64	IP64	IP64
16. Working Temperature	-10°C ~ +40°C (Usage) -20°C ~ +50°C (Storage)	-10°C ~ +40°C (Usage) -20°C ~ +50°C (Storage)	-10°C ~ +40°C (Usage) -20°C ~ +50°C (Storage)	-10°C ~ +40°C (Usage) -20°C ~ +50°C (Storage)
17. Storage	64G memory card	64G memory card	64G memory card	64G memory card
18. Weight	1.55KG	1.55KG	1.55KG	1.55KG
19. Integrated Inertial Navigation Unit (IMU)	APX-15	APX-15	APX-15	APX-15
20. Point Cloud Processing Software	RiPROCESS	RiPROCESS	RiPROCESS	RiPROCESS
21. Track Processing Software	POSPacUAV	POSPacUAV	POSPacUAV	POSPacUAV
22. Integrated Ortho Camera	2600 million pixels 16mm focal length lens	2600 million pixels 16mm focal length lens	2600 million pixels 16mm focal length lens	2600 million pixels 16mm focal length lens