

**R-Fans-16/32**   
Navigation Obstacle Avoidance LiDAR



## Product specifications

	R-Fans-16	R-Fans-16M	R-Fans-32	R-Fans-32M
Wavelength	905 nm	905 nm	905 nm	905 nm
Laser class	Class 1	Class 1	Class 1	Class 1
Pulse frequency	320 kHz	320 kHz	640 kHz	640 kHz
Echo mode	2 echoes	2 echoes	2 echoes	2 echoes
Intensity	8 bit/12 bit	8 bit/12 bit	8 bit/12 bit	8 bit/12 bit
Vertical FOV	30° ( 15° ~ -15° )	26° ( 11° ~ -15° )	31° ( 11° ~ -20° )	27.5° ( 11° ~ -16.5° )
Vertical resolution	2°	1°/1.5°/2°/2.5°/3°	1°	0.5°/ 1°/1.5°
Horizontal FOV	360°	360°	360°	360°
Angular resolution	0.09° ~ 0.36° ( 5 ~ 20Hz )	0.09° ~ 0.36° ( 5 ~ 20Hz )	0.09° ~ 0.36° ( 5 ~ 20Hz )	0.09° ~ 0.36° ( 5 ~ 20Hz )
Max. range	200 m	200 m	200 m	200 m
Accuracy	2 cm	2 cm	2 cm	2 cm
Scan rate	5-20 Hz	5-20 Hz	5-20 Hz	5-20 Hz
Interface	Ethernet, PPS	Ethernet, PPS	Ethernet, PPS	Ethernet, PPS
Weight	738 g	738 g	738 g	738 g
Power supply	9 ~ 32 VDC	9 ~ 32 VDC	9 ~ 32 VDC	9 ~ 32 VDC
Operating temperature	-20° ~ +70°	-20° ~ +70°	-20° ~ +70°	-20° ~ +70°
Power consumption	≤ 8 W	≤ 8 W	≤ 8 W	≤ 8 W
Size (mm)	113 ( D ) ×70 ( H )	113 ( D ) ×70 ( H )	113 ( D ) ×70 ( H )	113 ( D ) ×70 ( H )

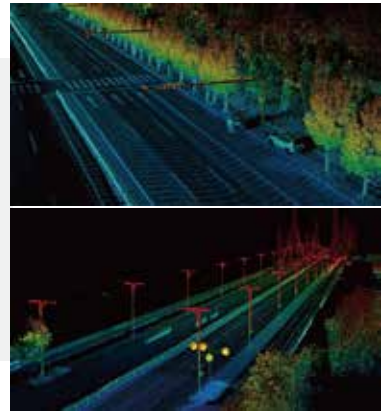
Autonomous driving



Unmanned delivery vehicle



High precision map



Point cloud data



Applications



R-Fans navigation LiDAR can precisely detect vehicles, pedestrians and other things in the scene.



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