

SF45/B

The SF45/B is the world's smallest, lightest, scanning microLiDAR®. This 5Hz oscillating sensor is highly configurable, with the ability to scan to 320°.



Key features

Weight:	57.94 g 2.04 oz	Power supply:	5.0 V ... 5.5 V
Size:	51 mm x 48 mm x 44 mm 2 in x 1.9 in x 1.7 in	IP rating:	Unit is IP42
Measuring range:	0.2 ... 50 m 0.6 ... 164 ft	Integration:	ArduPilot, ROS, Arduino, Raspberry Pi and LightWare Studio
Update rate:	Up to 5 000 readings per second and 5 sweeps per second	Operating temperatures:	-10° ... 50 °C 14° ... 122°F
Beam type:	Single beam, 320 degree oscillating	Communication:	USB, Serial UART and I2C (3.3 V TTL, 5 V tolerant)

Applications



Detect & avoid



Position hold



SLAM



IoT sensor

What our clients say about the SF45/B



Small and light obstacle detection system

This product is small and light, so it is not burdensome to be mounted on a small drone. It is also well-connected with ardupilot, showing the level of compatibility that can work immediately when connected. I am very satisfied with the performance of the product, but I expect it to be a little difficult for SLAM because the rotation speed is slower than I thought.

- Anonymous



Great sensor for drone object avoidance

This lightweight sensor does a great job with simple object avoidance with the lightweight requirement of drones. Just be aware that simple object avoidance won't solve all of your drone crashing problems. If your craft has other issues with aerial dynamics, those will need to be addressed before having an inherently safe flight.

- Josh Bierschbach



Contact us for more information

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