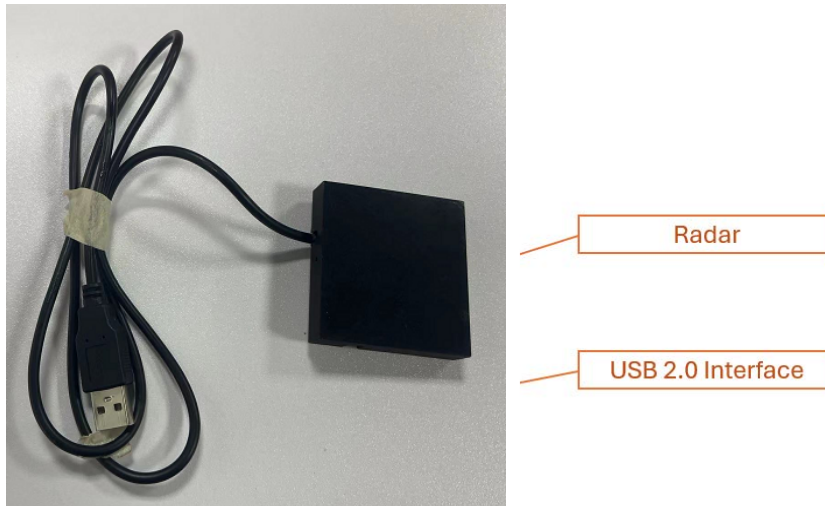

Radar Module – Instruction Manual



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1 Radar Module



2 Key Features

Tuning Frequency	60-64 GHz
Number of Receivers	4
Number of Transmitter	3
Antenna	Antenna on Package
Azimuth FOV *	+/- 60 deg.
Azimuth Angular Resolution **	29 deg.
Elevation FOV *	+/- 60 deg.
Elevation Angular Resolution **	29 deg.
Gain	0 dBi
Power Supply	4.75V – 5.25V (UBS 2.0 power-data)
Temperature Range	-20°C to 60°C

* Angular resolution is defined as how far apart two objects must be (in angle) for them to be detected as separate objects. It is different from angular accuracy, which is how accurately the angle of an object is detected.

** 6-dB beam width of resultant pattern due to TX and RX combination

3 Getting started

Please contact the Radar module manufacturer directly to get instructions/tutorials and software for using the Radar module. Here are the contact details :

*Flybotix SA
Rue de Lausanne 64
1020 Renens (Switzerland)*

E-mail : compliance@flybotix.com

4 Regulatory Statements

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions :

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

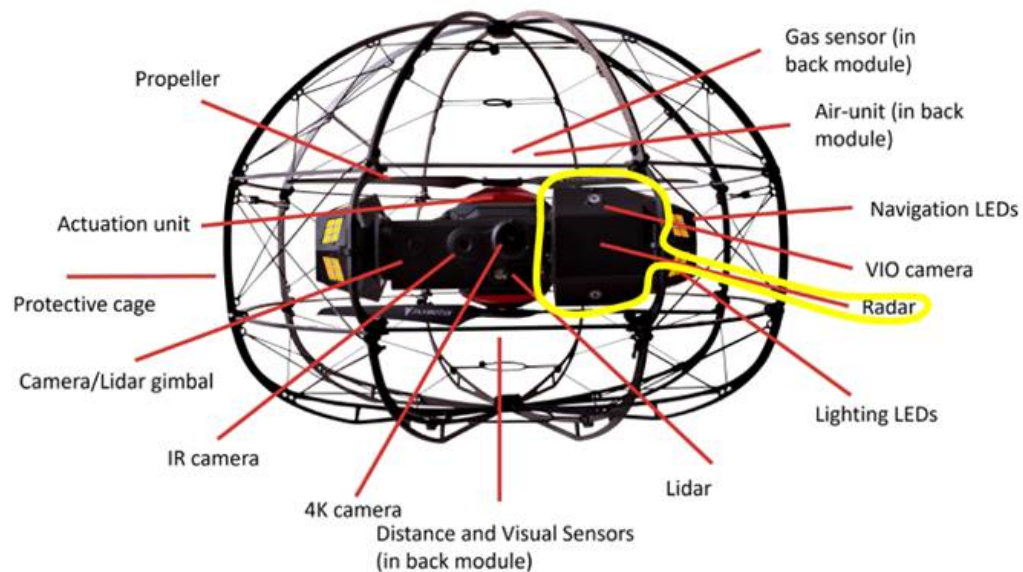
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

NOTE:

1. The radar module is placed on the Drone for use;
2. The drone use scenario is used for taking photos of industrial tunnels;
3. The flight altitude is no more than 400 feet

The radar module is mounted on the front module of our ASIO X Drone. See the radar module surrounded in yellow:



Our drones are used exclusively to carry out inspections of confined spaces such as sewers, silos, pipelines, and others. for industrial plateforms. We don't fly outdoors, so the flight altitude is no more than 400 feet. See our website to understand our applications in confined spaces (<https://www.flybotix.com>)

The radar module is installed and compatible with only one drone. This is Flybotix's ASIO X drone, the sequel to ASIO Pro, which we certified last year, FCC ID: 2BDOL-LOREINTHEAIR.