

User Manual

Information of the Manufacturer

Company Name	YAMAHA MOTOR CO., LTD.
Address	2500 Shingai, Iwata, Shizuoka 438-8501

Although our company products are designed to provide maximum safety during use, improper use or ignoring instructions may result in personal injury or property damage.

For your safety, read on.

1. Purpose of use of the product

This product is a dedicated 24 GHz radar sensor unit for installation in YAMAHA unmanned aerial vehicles. Do not use it for any other purpose.

2. Don't disassemble it

Never disassemble the unit, as it may cause damage or electric shock.

3. Use dedicated cables

Use the specified cable to connect to the product. Connecting the wrong cable may cause danger or a fire.

4. Precautions when installing

When installing this product in an unmanned aerial vehicle, secure it properly. If they are not secured properly, there is a danger of them falling, and if they do fall, there is a possibility of serious damage.

24GHz Radar Sensor Unit Specification

Sensor Unit	L75N57010 (Front Mounting)
Model No.	L75N57011 (Back Mounting)
Output Frequency	24.09GHz ~ 24.16GHz (OBW : 70MHz)
Output Power	20dBm less (EIRP)
Measurement distance	0.1 ~ 35m (RCS=20dBsm)
Unit Size	W160 x D72 x H84 (mm)
Ambient temperature	-10℃ ~ +65℃
Electric power source	DC10.8~15.0V (Typ.12V)
Electric power source	Max. 150mA
Connection I/F	RS-232C
Weight	350g or less

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.

Contact information

Company	Yamaha Motor Corporation USA
Address	6555 Katella Ave Cypress, CA 90630 United States
Name	Kumaoka Yosuke
E-mail	ken_kumaoka@yamaha-motor.com

FCC CAUTION

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

Note: 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.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.