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FATFISH F16 Radio Controller

FATFISH F16 Radio Controller User Guide

Contents

FATFISH

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Specifications

- **Approved for use by:** ShenZhen FATFISH Co., Ltd
- **Manufacturer:** ShenZhen FATFISH Co., Ltd
- **Address:** Nanshan Yungu Nanfeng Building, Nanshan District, Shenzhen city Guangdong Province, China

Product Information:
The FATFISH F16 is a multi-protocol radio system designed to provide users with a versatile and reliable control solution. It comes equipped with EdgeTX software and offers various features for an enhanced user experience.

Product Usage Instructions:

Introduction
The best just got better Thank you for purchasing the FATFISH F16 Multi-protocol radio system. FATFISH is proud to bring this ground-breaking product to the market and would like to thank customers just like you and the community for making this dream possible. The F16 version has had several improvements thanks to feedback from users like you. Please take a moment to read this quick start reference before using your new F16 radio.

Safety & Precautions:
Many radio control models are equipped with powerful motors and sharp spinning propellers. Please exercise caution when working on models. Ensure power is disconnected from your models and remove propellers when performing maintenance.

Do not operate the F16 radio system under the follow conditions.

- During bad weather or high wind conditions such as rain, hail, snow, storms or electromagnetic events.
- Under limited visibility.
- In areas where people, property, powerlines, roads, vehicles or animals may be in present.
- If you are feeling tired or unwell or under the influence of drugs or alcohol.
- If the radio or model appear to be damaged or not functioning correctly.
- In areas of high 2.4GHz interference or in locations where use of 2.4GHz radios is prohibited.
- When the battery in the F16 or the model is too low to function.

- Always maintain a minimum separation distance of 20 cm between your body and the antenna during operation to meet safety requirements.
- Regularly inspect the battery health and never leave the radio charging unattended.
- Avoid charging the radio if it becomes wet or damaged.

Manuals and firmware downloads.
The F16 is shipped with EdgeTX software installed as standard. To download the latest software and manual please visit **https://www.fatfishfpv.com**

Further firmware information.

EdgeTX: http://edgetx.org
ExpressLRS: https://www.expresslrs.org/3.0/
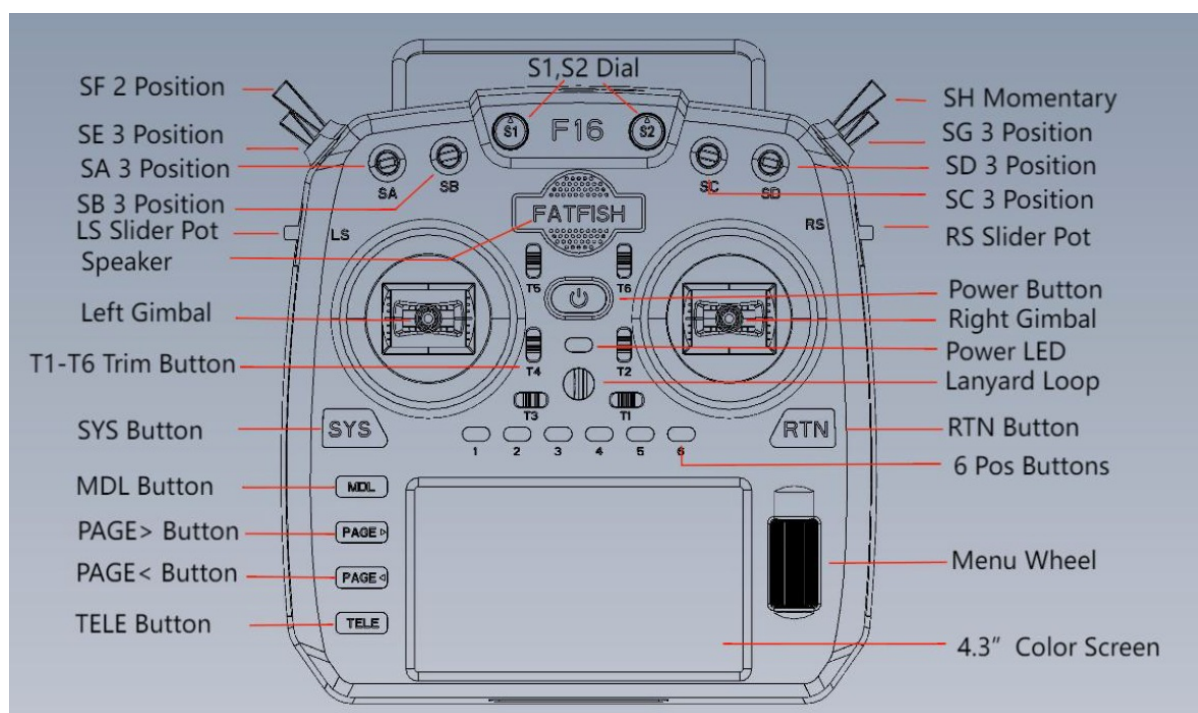**Multi-Protocol Module: https://www.multi-module.org/**
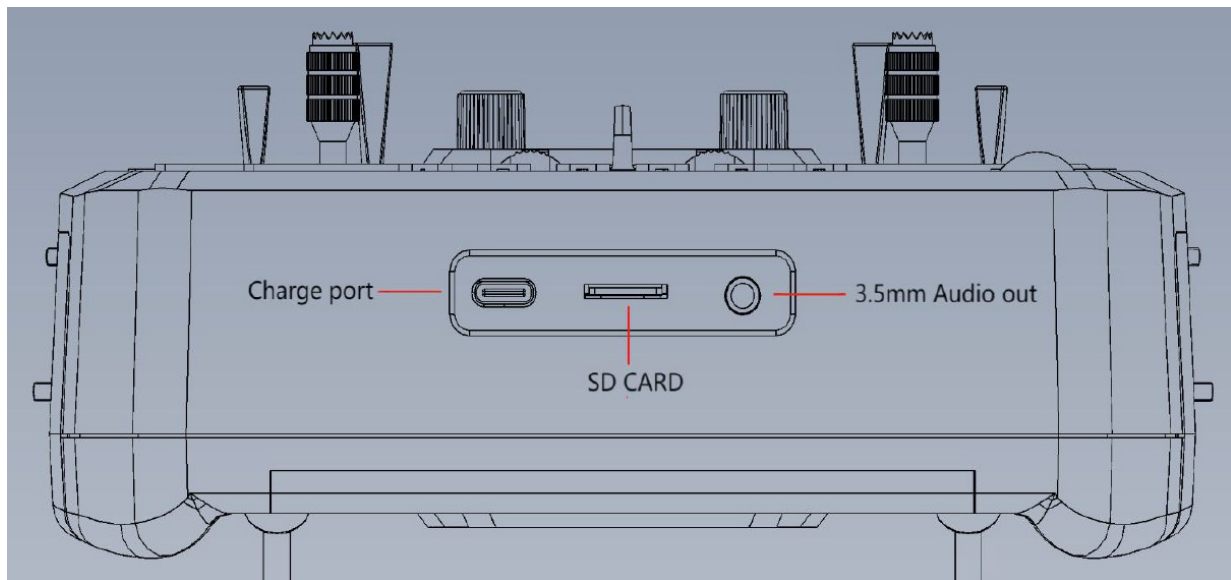
CAUTION!
The F16 is shipped with the most stable firmware at the time of manufacture. Please only update firmware if you are experienced and confident in updating system firmware. Incorrect updates may render the radio inoperable. DO NOT charge 6.6v LiFE battery packs or Li-ion 18650 cells with nominal voltage of 3.6v. Incorrectly charging the wrong battery type may lead to damage of the radio or fire.

Antenna Separation Distance
When operating your FATFISH transmitter, please be sure to maintain a separation distance of at least 20 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations. Regularly check the health and condition of your batteries and never leave your radio charging unattended. Always charge in a safe area away from combustible materials and surfaces. Do not charge if your radio becomes wet or damaged in any way. FATFISH does not accept any liability for the use or misuses of this product.

Radio overview

Power Requirements:
The F16 supports USB-C charging for 3.7v Lithium cells, specifically designed for 2x 3.7v Li-ion 18650 unprotected cells or 2x 3.7v Li-poly cells with a maximum charge capacity of 4.2v. The F16 has built in USB-C charging for 3.7v Lithium cells. The Charging circuit is designed for 2x 3.7v Li-ion 18650 unprotected cells or 2x 3.7v Li-poly cells (2s 7.4v LiPO pack) only with a nominal cell voltage of 3.7v and maximum charge capacity of 4.2v.

Model and Protocol Selection (ELRS):

1. Turn off the radio.

2. Cycle power to the receiver 3 times to enter bind mode (receiver LED blinking).

3. Turn on the radio, access ExpressLRS LUA, and select Bind.

4. Receiver LED will stay illuminated after a successful bind process.

Support:
If you encounter any issues with your F16 radio hardware, retain your proof of purchase and contact the retailer for warranty and repair assistance within one year of purchase.
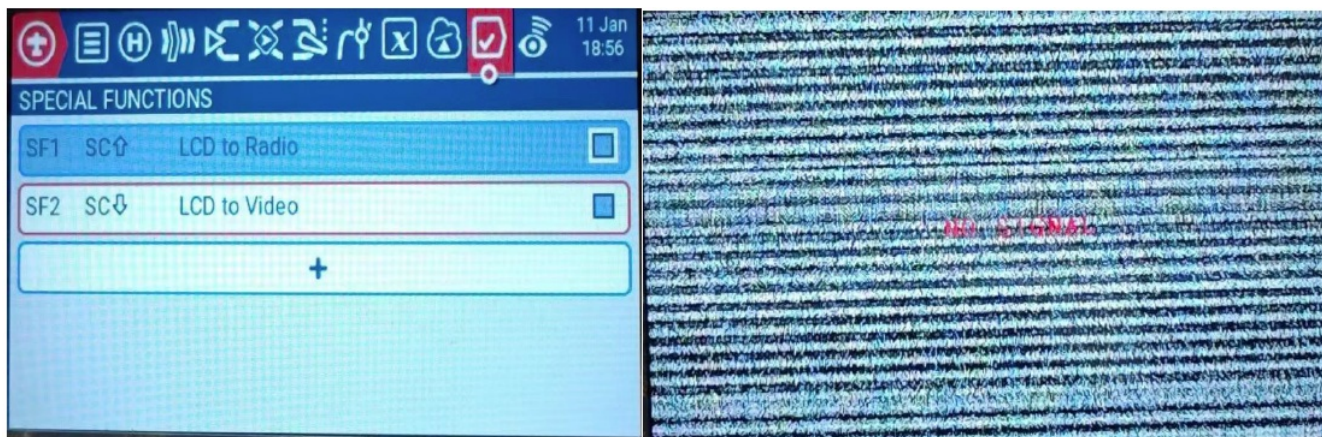
Warranty and Repairs.
Please retain your proof of purchase and contact the retailer you purchased your F16 from, should you experience any problems with your radio hardware. Warranty is valid for one year from the date of purchase.

Switch Between Remote Control Display and Video Transmission Display:
In the special function setting menu, define a switch channel as a display toggle switch for seamless transition between control and video display.

Specifications

- **Size:** 213*200*95mm
- **Weight:** 608g (without battery)
- **Transmission frequency:** 2.400GHz-2.480GHz
- **Transmitter module:** ExpressLRS internal module
- **Transmitting power:** Internal ELRS : Max 500mw (transmitting power is adjustable)
- **Working current:** 500mA
- **Working voltage:** 6.6-8.4vDC
- **Remote control distance:** > 4km @ 27dbm
- **Radio firmware:** EdgeTX (Supports OpenTX also)
- **Channels:** Up to 16 channels (depending on the receiver)
- **Display:** 4.3-inch TFT full-colour touch display with a resolution of 480 * 272
- **Module Bay:** JR-compatible module bay
- **Upgrade method:** Supports USB-C online / SD card offline upgrade

Approved for use

- 2 x 3.7v Li-ION 18650 cells (7.4v using supplied tray)
- 2 x 3.7v Li-ION 21700 cells (Assembled as 7.4v 2s Battery pack)
- 2 x 3.7v Lithium-polymere cells (Assembled as 7.4v 2s Battery pack)
- DO NOT use
- 3.6v Li-ION cells
- 2S 6.6v LiFE Battery packs
- LiFEP04 cells

Do not use 2s 6.6v LiFE battery pack, 18650 lithium-ion cells with a nominal voltage of 3.6v or LiFEP04 18650 Round cells. Using the built in USB charger with incorrect battery types and voltage may cause damage to the remote control or fire. Check the health and condition of the batteries regularly. Do not use damaged cells. Never charge your device unattended. Always charge in a safe area away from flammable materials. If the remote control gets wet or damaged in any way, do not charge it. FATFISH is not responsible for any adverse consequences caused by using or misusing this device.

FCC

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment. 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.

Manufacturer by
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WWW.FATFISHFPV.COM

FAQ

Q: Can I charge the F16 radio with any type of battery?
A: No, the F16 is designed for specific battery types only. Avoid charging 6.6v LiFE battery packs or Li-ion 18650 cells with a nominal voltage of 3.6v to prevent damage or fire hazards.

Q: How do I bind my F16 radio to a receiver?
A: Turn off the radio, cycle power to the receiver to enter bind mode, then use the ExpressLRS LUA interface to initiate the bind process successfully.

Documents / Resources

FATFISH F16 Radio Controller [pdf] User Guide
F16, 2BGPX-F16, 2BGPXF16, F16 Radio Controller, Controller, F16 Controller, Radio Controller

References

- **Welcome to EdgeTX! - EdgeTX**
- **FATFISH**
- **Redirecting...**
- **FATFISH**
- **Home | MULTI-Module Documentation**
- **User Manual**