

FATFISH

F16

Quick start guide

WWW.FATFISHFPV.COM

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.

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.

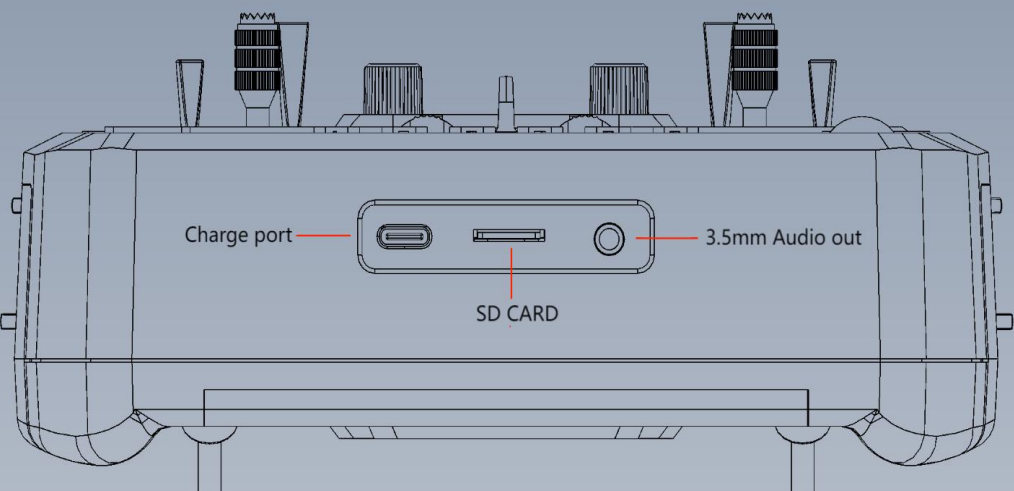
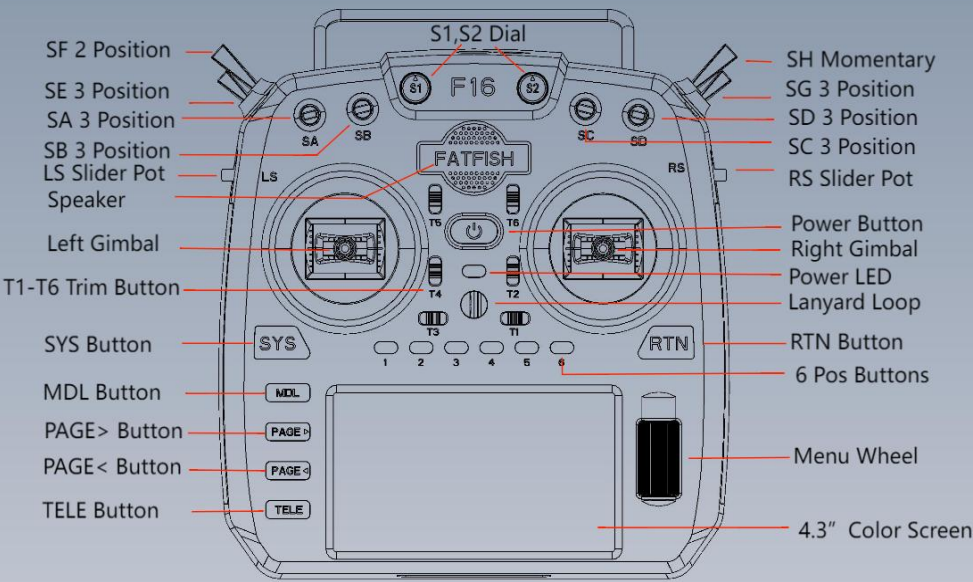
DO NOT charge 6.6v LiFe battery packs or Li-ion 18650 cells with nominal voltage of 3.6v. Incorrectly charging the wrong battery type may lead to damage of the radio or fire.

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.

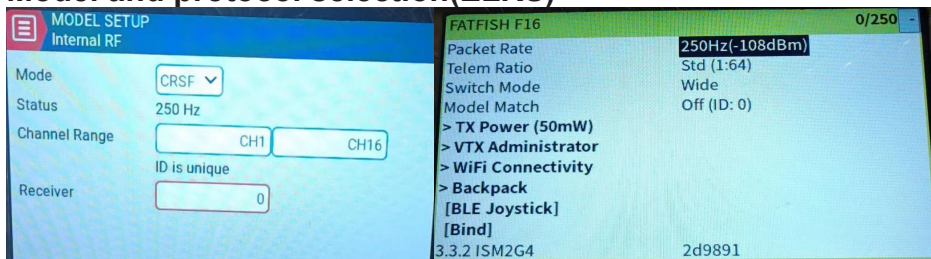
F16 Radio overview



Power Requirements.

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)



Bind method

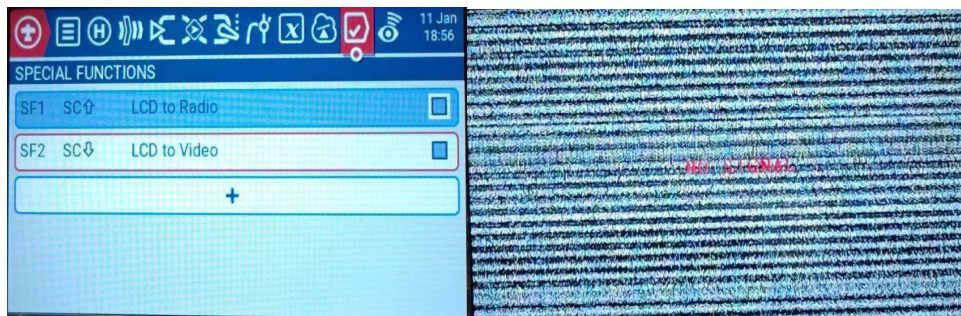
1. Turn off the radio.
2. Cycle power to the receiver 3 times, the receiver LED will start blinking, indicating it's in bind mode.
3. Turn on the radio, enter the ExpressLRS LUA, and select Bind.
4. The receiver LED will now stay illuminated, signaling a successful bind process.

Support.

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, any switch channel can be defined as a display toggle switch

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-color 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-polymer 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.

Manufacturer by

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FCC Warning:

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.