# FURIOUS TRUE-D DIVERSITY RECEIVER V3.8

## USER MANUAL




**Please contact us if you need further assistance:**

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# Contents


What's new Firmware True-D V3.8 ..... 3

Features ..... 4

Specifications ..... 4

Product Layout ..... 5

Usage ..... 6

- ❖ Logo Screen ..... 7
- ❖ Active Channel ..... 7
- ❖ Saved Channels ..... 7
- ❖ All Channels ..... 8
- ❖ Smart Search ..... 8
- ❖ Band Scanner ..... 8
- ❖ Settings ..... 9
  - ➢ Call Sign: ..... 9
  - ➢ Filter: ..... 9
  - ➢ Auto Lock: ..... 9
  - ➢ Alarm: ..... 10
- ❖ Quad Finder ..... 10

Calibration ..... 10

Support ..... 11

# What‘s new Firmware True-D V3.8

- New simple UI & Transitions
- Optimized calibration method
- Quick access to menues:
  - Hold Up for Smart Search
  - Hold Down to switch Saved or All Channels in quick access
  - Press Up or Down to switch between channels
- Replaced Race Mode with a second profile for Saved Channels

**Guideline:**



Video update Firmware for Window:

https://goo.gl/Gg527W



Guideline update Firmware for Mac:

https://goo.gl/AesDuQ

# Features

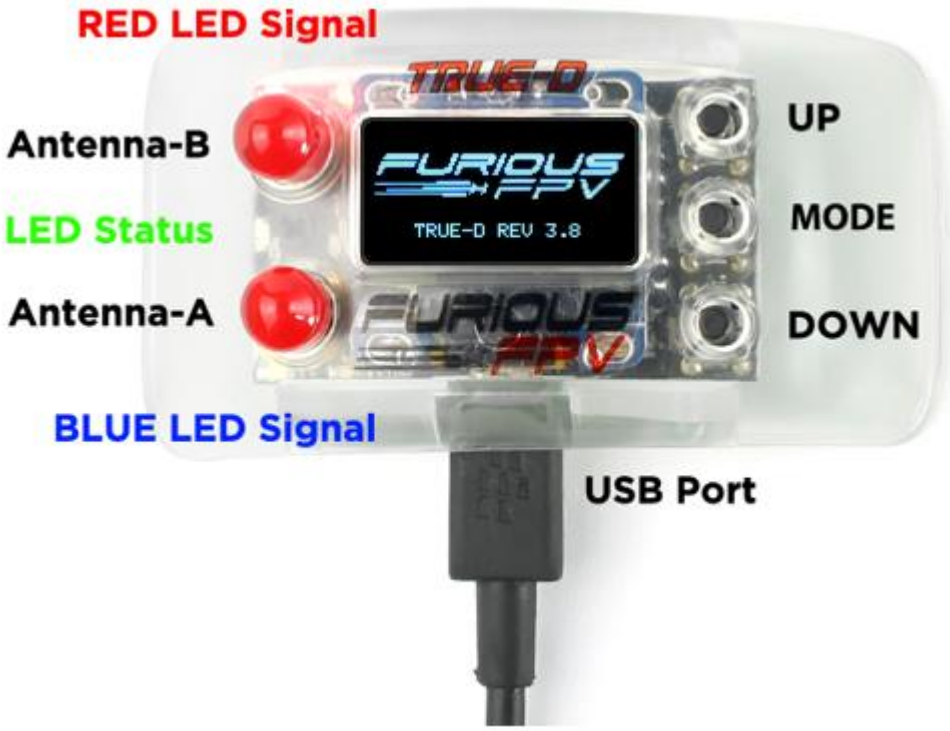
- True Diversity System Functionality
- Smooth Switch Video Switching Technology
- Race Band channel ready
- Multiple Channel Modes - Auto, Manual & Working Modes
- Built-in easy view OLED Screen for the Ultimate in Setup Ease
- Ergonomic new plastic injection cover & robust 3 button built-in
- Single press button via FatShark Goggles or TRUE-D system
- Built-in Low Power Buzzer
- New menu layout with icons for a better user interface.
- Improve Fatshark DVR video quality better
- Additional Timeout feature
- Separate modules to decrease thermal loading
- New micro USB type B Port for easy firmware updates
- Better protection mechanic to protect the OLED screen in transportation
- New locking system between True-D boards and cover to prevent short

# Specifications

- SMA Style: SMA Jack Connector/Female
- Working Frequency: 5.8GHz
- Input Power: 5V
- Number of Channels: 48 Channels
- Compatibility:
  - FatShark Dominator V1, V2 & V3 goggles
  - FatShark HD V1, V2 & V3 goggles
  - FatShark Attitude V3, V4 – Designed cover for Attitude V3 + V4 goggles

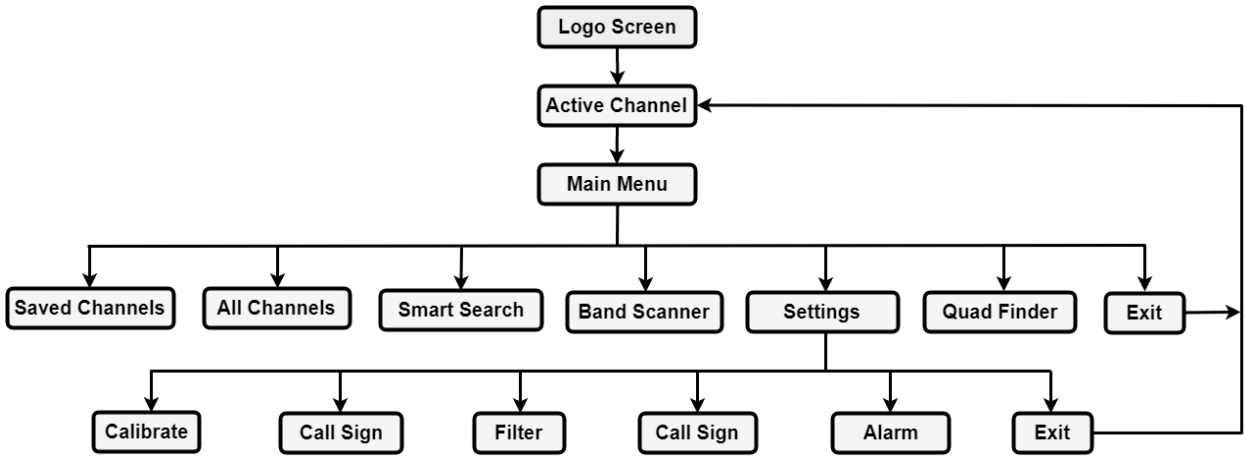
# Product Layout

- **Red LED signal** is activated when the True-D module using antenna B
- **Blue LED signal** is activated when the True-D module using antenna A
- **Green LED status** is activated when making selections with the True-D module
- **USB port** is built-in for firmware and logo updates via USB cable
- **Up and Down buttons** are utilized to move the selection cursor in desired direction for menu navigation
- **Mode button** confirms the highlighted selection
- **SMA antenna female** compatible with many popular antennas



# Usage

The Furious True-D Menu Flowchart:




| MAIN MENU | | |
|---|---|---|
|  Saved Channels |  All Channels |  Smart Search |
|  Band Scanner |  Settings |  Quad Finder |

***Note:**

- **While in setting if no button is pressed within 15s, True-D will auto exit to "Active Channel" interface.**
- **In settings, Hold Up/Down button to exit to Active Channel.**

## ❖ Logo Screen

When powering on the goggles, the OLED screen will display the FuriousFPV Logo or Custom Logo and the name of firmware version installed.




## ❖ Active Channel

Show band, channel number, frequency and call sign.

Hold **Up** button to quick smart search.

Hold **Down** to switch Saved or All Channels in quick access and press **Up/Down** to switch between channels in the each mode.

Hold **Mode** button to **Lock/Save/Exit.**










## ❖ Saved Channels

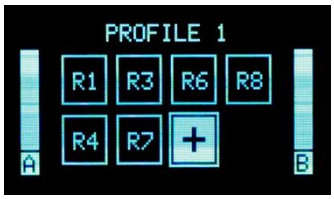
Show all saved band and channel numbers.

There are two profiles and maximum 8 channels for each profile.

Hold **Mode** button for about 2s, the pop-up will display:

- **Change:** select channel for the profile.
- **Delete:** delete undesired channel.
- **Profile:** Change to other profile by **Mode** button.
- **Exit:** turn off pop-up.







***Note:** **Hold Up/Down button: Switch back and forth two profiles.**

## ❖ All Channels

Show all bands, channel numbers and frequencies.

Hold **Mode** button: save your desired channel.

Press **Mode** button: select channel and exit to Active Channel.










## ❖ Smart Search

The module will automatically find and show all the detected channels (the closest frequency with your VTX transmission frequency and prioritize channels which you saved) with corresponding strength signal and auto sort smart search channel.

Hold **Mode** button for about 2s, the pop-up will display:

- **Save:** save your desired channel.
- **Research:** search channel again.
- **Exit:** exit to Active Channel.










## ❖ Band Scanner

Determine current broadcast band, channels and frequencies with a powered video transmitter. Identify a potential channel, band, and frequency with low noise for optimal use.




***Note:** **Press Mode button to exit Main Menu.**

## ❖ Settings

### ➢ Call Sign:

Configure your **call sign/pilot name** or **text** to be displayed on your True-D.

Utilize up to 10 alphanumeric characters and symbols.

To exit mode and save your call sign, press **Mode** button to move through 10 characters.




### ➢ Filter:

Configure sensitivity and switching speed of filter for the algorithm.

Three choices are available for use:

- **Low:** Filter will have slow speed for switching operations, which is optimal for long range.
- **Normal:** This is a balanced mode and the default stock setting (**Recommended**).
- **High:** Filter will have quick speed for switching operations, which is optimal for racing.










### ➢ Auto Lock:

Auto locks the screen after 5s and doesn't allow channel changes.

The options are as follows: **ON/OFF.**

One other way, hold **Mode** button to **Lock/Unlock** at the Active Channel.






➢ **Alarm:**

Warning by buzzer and display RSSI LOW on the screen when signal lower than the configured level.

The options are as follows: **None, 20%, 35%** and **50%.**







❖ **Quad Finder**

In case your drone gets lost while flying. The Graphic interface will point in the right direction and guide you to the place where it fell down with a buzzer warning (Beeper) and RSSI level (RSSI Graph). However, the function only work when your quad (VTx) is still working after crashed.

Hold **Mode** buttton to turn off buzzer







# Calibration

**Why do we need to calibrate the True-D?**

A Diversity receiver system is two receivers built into a single package, allowing the pilot to choose two different antenna systems for maximum levels of video range & clarity. With two receivers used by the diversity algorithm, you need to get accurate numbers between the two individual modules for calculation of the best video signal in the goggles.

❖ **Note:** when you update new firmware, you have to recalibrate your True-D.

**How to do I calibrate the True-D diversity module?**

- Step 1: Remove all antennas on True-D and plug it into the goggles.
  **Note:** Verify that all pins on True-D are correct when plugged in the goggles.
- Step 2: Plug Battery and verify that **Turned On** Rx Switch in the goggles.
- Step 3: Turn on your VTX.
- Step 4: Press **Mode** button to open the navigation menu.

- Step 5: Use **Up/Down** button to move to the **Settings** menu.
- Step 6: At the **Settings** menu, use the **Up/Down** button to move the cursor to select the **Calibrate** mode and press **Mode** button. Then, wait for the process calibration to complete.

❖ **Video tutorial to calibration:** https://goo.gl/knBLyv

❖ **Note:**

- **Don't worry about RSSI value when calibrating**
- **After Calibration, if the below pop-up shows up, please calibrate again closer to your VTX. Otherwise, you have calibrated correctly and you can use it normally**




# Support

The reseller you purchased your product from handles the first line of support. If you encounter any problems with your Furious FPV products, please contact them first on issues involving equipment from other brands and general support for Furious FPV products.

**Please contact us if you need further assistance:**

Tech support: tech@furiousfpv.com

Sales support: sales@furiousfpv.com

***Thanks for using our product***