



FURIOUSFPV TRUE-D X

USER MANUAL



Various translucent colors



Please contact us if you need further assistance:

Tech support: tech@furiousfpv.com

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Website: <http://furiousfpv.com/>



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Specifications

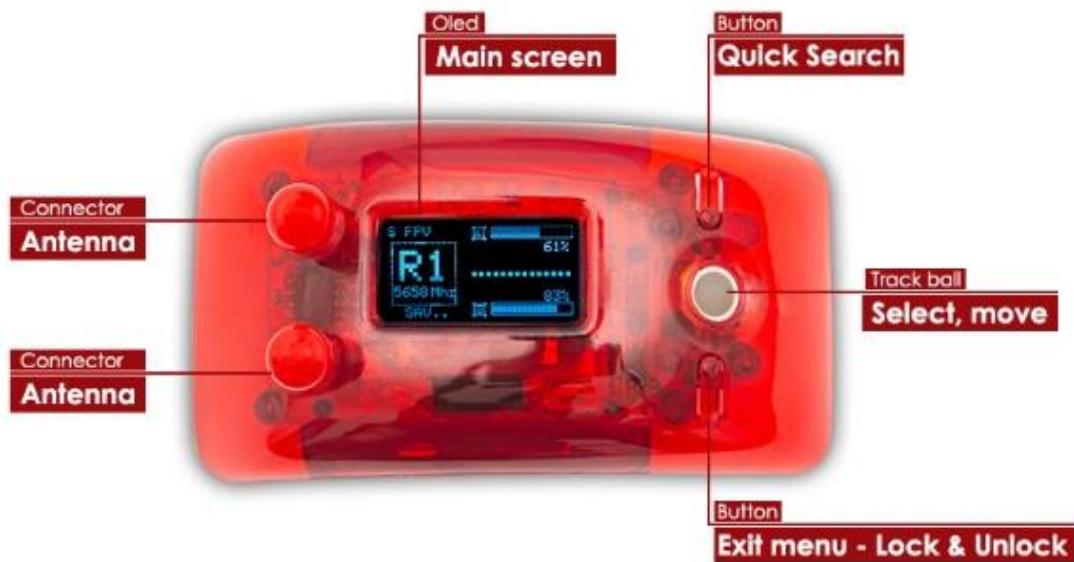
- Antenna Connection: SMA Female connector
- Working Frequency: BT:2402-2480MHz, RX:5GHz
- Input Power: 5V-500mA
- Number of Channels: 48 Channels
- CE/FCC certified
- Compatibility:

Goggles type	How to use
Fatshark HDO	Plug & play
FatShark Dominator V1, V2 & V3	Modify according to the tutorial clip link below:
FatShark HD V1, V2 & V3	https://youtu.be/QGKLciPJIAM

- Package includes:
 - True-D X
 - Replacement trackball
 - Adapter board
 - Ribbon cables
 - Manual

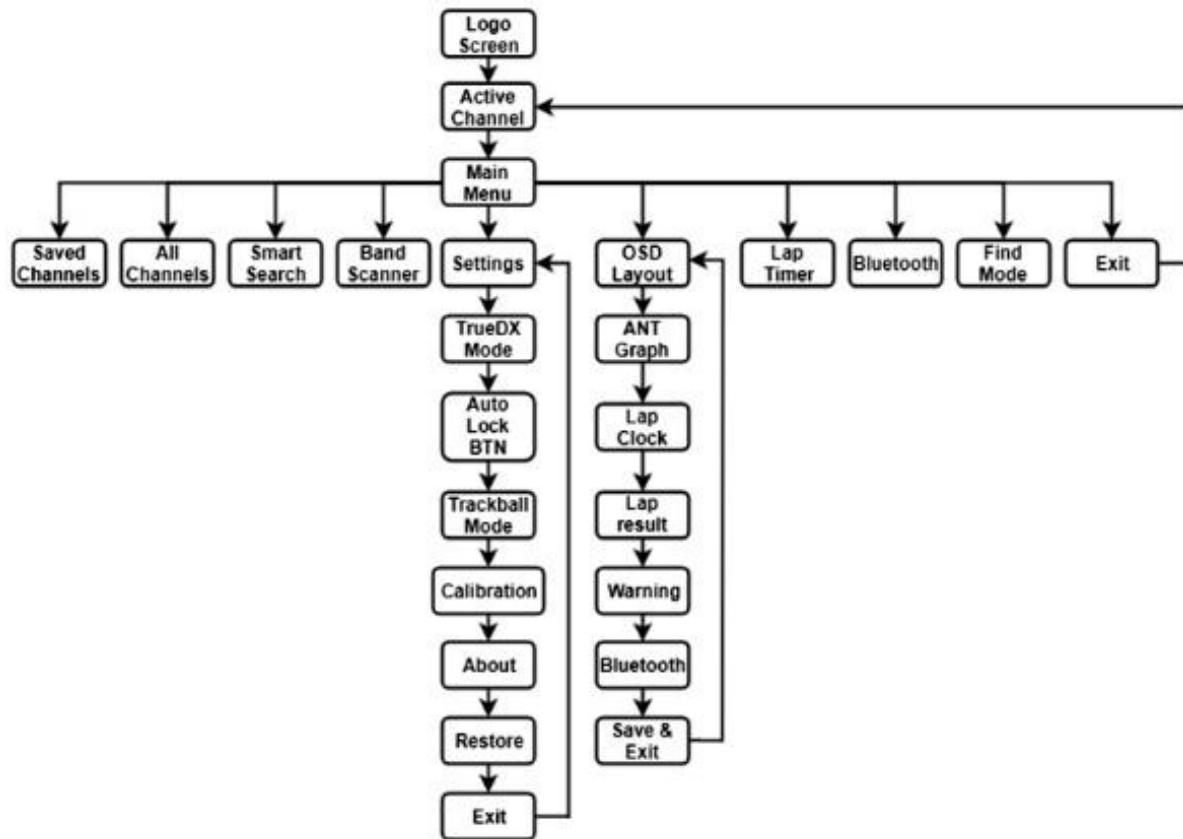
Product Layout

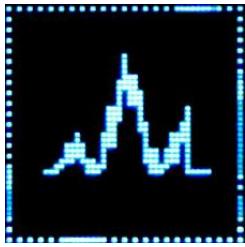
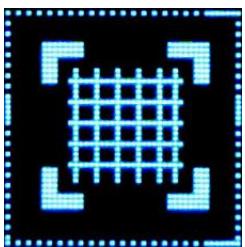
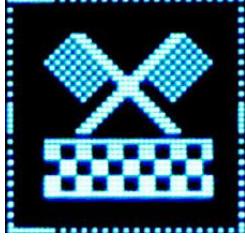
- **Trackball** is utilized for menu navigation.
- **Exit Menu** and **Quick Search buttons** are utilized for quick access to button lock & unlock, smart search and channel modes.
- **SMA female** is compatible with many popular antennas.



Usage

The Furious FPV True-D X Menu Flowchart:



MAIN MENU		
		
<u>Saved Channels</u>	<u>All Channels</u>	<u>Smart Search</u>
		
<u>Band Scanner</u>	<u>Settings</u>	<u>Osd Layout</u>
		
<u>Lap Timer</u>	<u>Bluetooth</u>	<u>Find Mode</u>

***Note:**

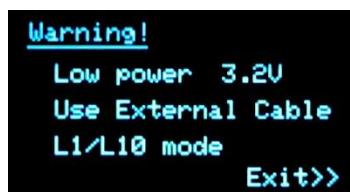
- While in the different menus if no button is pressed within 15s, True-D X will automatically exit to "Active Channel" display.
- In the Main Menu, Press Quick Search/Exit Menu button to exit to Active Channel.

❖ Logo Screen

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



If the OLED screen displays a low power warning. Please modify your goggles according to the Specifications section.



❖ Active Channel

Shows the band, channel number, frequency and call sign

Press & hold **Trackball** for 2s on Active Channel display, a pop-up will show:

- **BTN:** lock or unlock trackball
- **TYP:** select antenna RSSI display type
- **GRA:** set real-time RSSI graph On/Off
- **S&E:** save and exit



Hold **Quick Search** button for quick access to smart search

Hold **Exit Menu** button to quickly lock or unlock the trackball

Press **Exit Menu** button to switch between **Saved channels/All channels**



❖ Saved Channels

Show all saved band and channel numbers

There are two profiles available and maximum of 8 channels for each profile

Press **Trackball** for 2s, a pop-up will show:

- **Change:** Change the selected channel to another one
- **Delete:** delete selected channel
- **Profile:** change to the other profile by pressing the **Trackball**
- **Exit:** exit pop-up



***Note: While in this menu, you can hold the Quick Search button to switch back and forth between the two profiles.**

❖ All Channels

Show all bands, channel numbers and frequencies

Hold **Trackball**: save the highlighted channel

Press **Trackball**: select the highlighted channel and exit to Active Channel

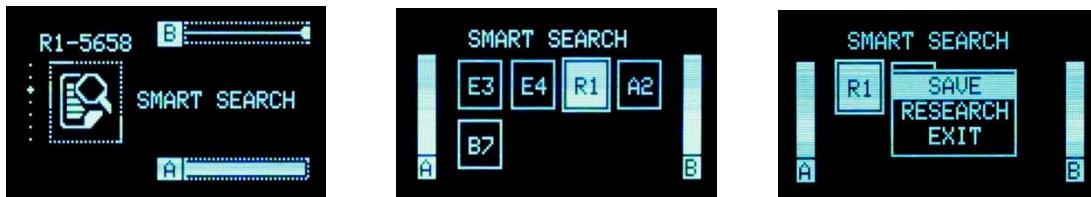


❖ Smart Search

The module will automatically find and show all the detected channels (the channels closest to your VTX transmission frequency will be displayed although it will prioritize channels which you have saved) sorted by corresponding signal strength.

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

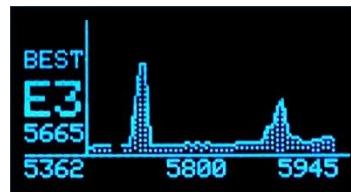
- **Save:** save the selected channel
- **ReSearch:** search again
- **Exit:** exit to Active Channel



***Note:** Hold the **Quick Search** button when in the Active Channel display to quickly access smart search.

❖ **Band Scanner**

Scans the 5.8GHz band and displays the RSSI of each frequency in a graph. You can use this mode to check the transmission of video transmitters or to find a channel with the lowest noise floor.



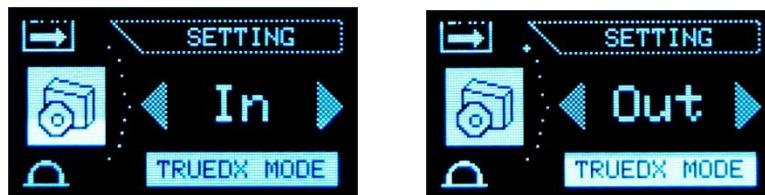
***Note:** Press **Exit Menu** button to exit to the Main Menu.

❖ **Settings**

➤ **True-D X mode:**

Indoor: The signal is improved with image processing technology, most notably improved video in multipathing environments.

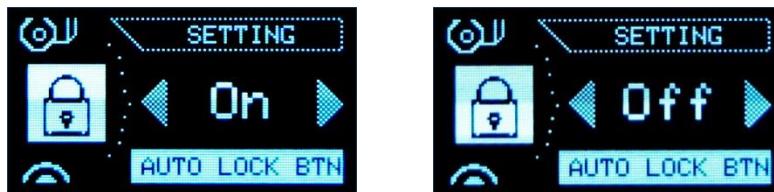
Outdoor: Optimized for long range and freestyle or racing outdoors. Video is adjusted only when a low signal is detected.



➤ **Auto Lock BTN:**

Auto locks the buttons after 5s and doesn't allow channel changes by just moving the trackball. You can unlock by holding down the trackball or the **Exit Menu** button.

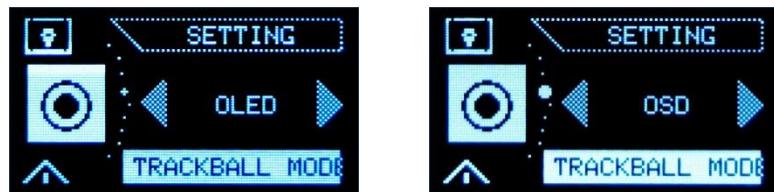
The options are as follows: **ON/OFF**.



➤ **Trackball mode:**

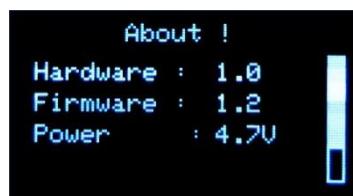
This determines the scrolling behavior of the trackball. It can be set to match the icon movement on the OLED or in the OSD.

- **OLED:** used when looking directly at the OLED screen
- **OSD:** used when looking at the OSD display on in your goggles



➤ **About:**

Shows Hardware, Firmware versions and input voltage.



➤ **Restore:**

Press & hold **Trackball** button for 2s to restore the defaults.



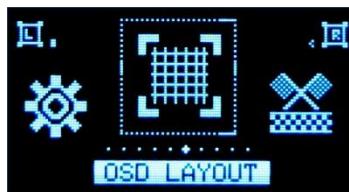
➤ **Save & Exit:**

Press **Trackball** button to save changes and exit Settings.



❖ **OSD Layout**

Individual OSD elements can be turned on and off from this menu. You can also change the position of these icons in the OSD.



There are five OSD elements available: ANT & Graph, Lap Clock, Lap Result, Warnings, Bluetooth.

To adjust the position of the icons in the OSD, on the element that you want to change the position of: press the **Trackball** and use the **Trackball** to adjust the icon to your desired position. Press **Trackball** button again to go back to the OSD Layout menu.

❖ **Lap Timer**

Race Type:

- Lap Count: Set target laps



- Fixed Time: Set time limit (Max: 29 Laps)



- Practice: For training purpose (Max: 29 Laps)

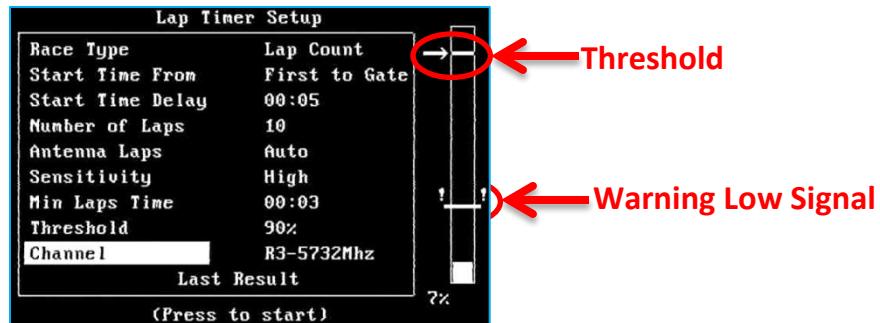


- Lap Timer Display

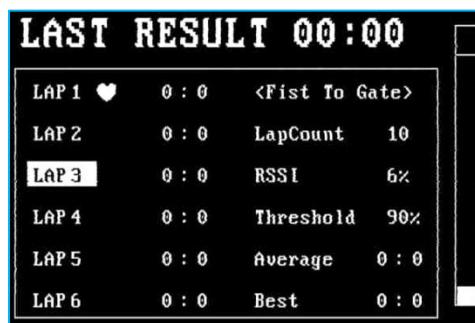


- Start Time From:
 - Start Tone: Race time starts on the tone
 - First to Gate: Race time starts when passing the gate
- Start Time Delay: Delay time to race start after pressing Start (From 4s to 120s)
- Number of Laps: Number of laps to race (From 1 to 30 Laps)
- Antenna Laps: Select desired antenna for RSSI comparison (used to calculate a pass)
- Sensitivity: Adjusts the sensitivity of the antenna
- Min Laps Time: Minimum time required to complete one lap (From 3s to 120s)
- Threshold: Sets the minimum RSSI for detection of a pass

- Low Signal Warning: fixed warning level is 30%. If your signal is lower, you cannot use the Personal Lap Timer feature
- Channel: Set the channel for the lap timer to operate on



- Last Result: review your last results. To go back to the Lap Timer menu, press the **Exit Menu** button.



***Note in the Lap Timer menu:**

- Press **Exit Menu** button: Exit to Main Menu.
- Press the **Trackball** twice: Start the Personal Lap Timer.

❖ **Bluetooth**

- **Slave mode:** used to update Firmware & Logo by IOS/Android App
- **Master mode:** used to connect with Flight Controllers, Betaflight, adjust VTX, etc.,

Video tutorial on how to connect to True-D X with Bluetooth:

<https://www.youtube.com/watch?v=lWpYUP-wCW4>

❖ Find Mode

In case you lose your drone while flying. The Graphical interface will guide you to the drone with a buzzer warning in the direction that it detects the strongest signal along with a RSSI graph. However, this can only work if your drone is still transmitting (battery still plugged in).

Press **Exit Menu** button to exit this mode.



Support

The dealer 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 for 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

FCC Caution:

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.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.