

Foxtech AIO VIDEO GOGGLES

Head tracking included

WORDS: Ryan Kephart



FOXTECH HOBBY CO.,LTD IS A COMPANY FOUNDED IN 2008 AND SINCE THEN HAS BEEN DEVOTED TO OFFER THE BEST QUALITY FPV AND AERO PHOTOGRAPHY PRODUCTS. Their products go much further than just the video goggles we are reviewing today. Foxtech offers wireless video links, cameras, OSD systems, ground stations, autopilot systems, tracking antennas, and much more. Customer service is also another key component that Foxtech is dedicated to.

Customer service representatives are already FPV pilots with a knowledge base that allows customers to have a full time product support for Foxtech products. Probably one of their most known products by far is the AIO (all-in-one) FPV Goggles. So lets take a look at these and we will show you why Foxtech knows FPV.

Head gear for pilots.

FEATURES

The Foxtech AIO video goggles stand a league apart from other manufactures. Their vision to create a goggle that can do multiple functions and still compete with high-end video goggles was realized with the making of the AIO. These glasses were developed by FPV pilots for FPV pilots to get the most out of the experience of FPV flight. These goggles feature a built in anti-drift head tracking system, an 8 channel 2.4ghz and 5.8ghz receiver, 2x non-blue (black) professional FPV monitors with a 640X480 resolution, and a new silicone shade that keeps all of the light out while wearing the goggles. Let's take a look at the features in detail and how this new all in one video goggles performed.

INSTALLATION

Foxtech sent me a basic system to test out including a small 5.8ghz 10mw transmitter for video relay, and a high-resolution video camera. We already had a 900mhz system from Hobby wireless, so we decided to give these goggles a try on that system. Foxtech at this time does not have a combo system for the goggles, but if you want to try a wireless connection remember to pick up a small 10mw transmitter for video relay.

Installing the system was strait forward. We setup our TREX 450 Pro with the camera and transmitter. The transmitter sends its signal to a 900mhz receiver. From the 900mhz receiver we installed the small 5.8ghz transmitter from Foxtech and used the video goggles to receive the wireless video feed. This made the goggles wireless, which really

makes a difference and makes you feel much more free than with wires hanging from your face.

We also gave the head tracking system a test out on an FPV plane. The installation and programming of the head tracking was simple and strait forward. We used the 10C Futaba transmitter, as these seem to work best with head tracking. Opening up the nice on screen display by selecting it using the dial on the goggles, I set the head tracker to use channel 5 and 6 for pan and tilt. From there, I just plugged the goggles into the radio and setup the trainer function to handle the head tracking system.

TESTING

COMFORT: The Foxtech AIO Video Goggles weigh in at 5.9oz (167g) with the wireless antenna. This is comparable to



+ THE GOOD

- Wireless receiver
- Great head tracker
- Clear Video
- Priced reasonably (head tracker included)

- THE BAD

- Silicone shade is a little uncomfortable

CONNECT

MANUFACTURER:	Foxtech
WEBSITE:	www.foxtchfpv.com
PART NUMBER:	AIO
STREET PRICE:	\$435

Now we can all look like Mr. Laforge.



most video goggles without the added features of the head tracking system. These goggles feature a silicone shade that blocks out the light and provides enough gap to facilitate a person wearing glasses. I however do not wear glasses, but our photographer gave them a try and said his glasses did not interfere with the goggles. As for my feeling for the goggles they feel lightweight on, and the silicone shade does an okay job blocking out the light. I did see a few specs of light coming through near my ears, but as soon as the goggles were turned on, the display was plenty bright enough and I did not notice the light coming in. I had a little trouble finding the sweet spot for the wide comfortable elastic headband. I had to place it a little lower than usual to keep the display at a perfect level. You can also lower the goggles down a little, but the hard plastic pressed a little too much on the bridge of my nose. Overall the comfort was enough for a long flight, but movies might be out of the question without some modification. I looked on the forums and found some people

are modifying the glasses to use foam instead of the rubber. Foxtech has also commented on this and are planning to make a foam shade as an accessory.

FUNCTION

As soon as I powered up the display I immediately noticed how clear and bright these goggles are. The 640X480 resolution was crystal clear and the color was spot on. The Foxtech AIO goggles have the ability to adjust the brightness and contrast on the fly with the push buttons on top of the goggles. This made flying in dusk an easy task. As the sun dropped I just added a few clicks of brightness and I was able to continue flying without having to land. The built in receiver worked flawlessly as a video relay system. This allowed me to even pilot the helicopter inside my car without having to worry about video signal. I also took a look at the OSD. This function allowed you to adjust the color, receiver bandwidth, head tracking channels, pan and tilt range, and the auto correct feature.

The head tracking system was by far the

best I have ever used. Almost every head-tracking unit has problem with drift. With these goggles I have not noticed any drift whatsoever and the auto correct feature works amazing. This feature allows the gyro to auto correct and reposition itself so wherever you are looking, that is the true position of the camera. Foxtech uses a digital compass, accelerometers, and a gyro for their head tracker. This allows for the utmost precision and function. I was very pleased with the performance of this system and I am sure it is one of the best on the market.

CONCLUSION

If you are looking to get the most out of FPV, then these goggles are the right choice for you. You cannot compare the performance of the head tracker, and the display is nice and sharp. As for the comfort, Foxtech has already started on producing a foam shade for us who do not wear glasses. For eyeglass wearers the Foxtech goggles provide the perfect shade to use. **TBL**