

TBS GREENHORN 5.8GHZ 25mW Video Transmitter

Introduction

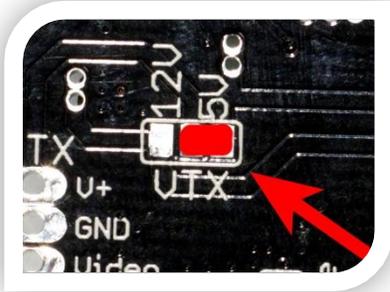


The TBS GREENHORN 5.8GHz 25mW video transmitter is aimed at the beginner FPV pilot. It's a license-free, CE & FCC certified, medium range video transmitter with solid video signal for up to 500m (1/2 mile) on stock antennas. Directional video receiver antennas increase range and are available from various sources.

It operates off a 5V powersource and is compatible with all Lawmate transmitter module pinout. This allows you to switch the transmitter according to your planned flight requirement and flying distance.

For optimal operation we suggest to use this transmitter together with the TBS CORE. The TBS CORE comes with cables that allow plug & play installation.

Connection to TBS CORE



Connection to the TBS CORE is fairly straight forward. Ensure that your TBS CORE is set to 5V on the VTx port (picture left). Depending on required length between CORE and video transmitter, use either the supplied pigtail cable or the shielded video transmitter cable that came with the CORE.

Solder to the VTx port of the TBS CORE and then connect to the video transmitter's socket. If set up right, you can use any TBS or Lawmate video transmitter (1.2 GHz, 2.4GHz, 5.8GHz) with the same cable, on the same plane, without making any modifications.

Custom Installation

Installation of the transmitter is easy. It comes with a pigtail connector that you can use to make your own cables. Or use it plug & play with compatible TBS products. The pinout of the cable is according to following color scheme:

- Yellow = Video
- White = Audio
- Black = GND
- Red = 5V+

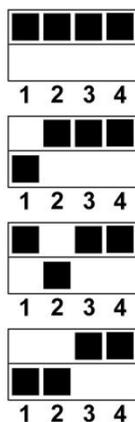
The pins of the connector are also labelled on the front of the video transmitter. Please verify the pinout of the plug and that everything is wired correctly before powering up your video transmitter for the first time!

Attach the supplied 4-leaf Cloverleaf antenna with care. Do not bend or modify the top (receiving part) of the antennas! When travelling with your plane please use the provided transport case for the antennas to avoid damaging your antenna and reducing its range.

Channel Selection

The TBS Greenhorn supports 8 channels in the 5.8GHz ISM Band. The channels are selected using the dipswitch located at the back of the video transmitter.

The channels of the TBS 5.8 GHz video system are color-coded. The antennas you purchased are optimized for a certain range of channels. These channels are grouped using various colors. The CL/SPW antennas are marked with a little piece of colored shrink-tube at the base of the antenna. The transmitter's capable frequencies are printed on the label and marked with an „X“. Find a channel matching both your transmitter's frequency and antenna frequency and set it with the dipswitch. The supported channels, also color coded, are listed in the table below.

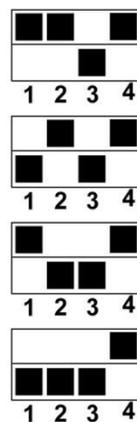


Channel 1
(5725 MHz)

Channel 2
(5745 MHz)

Channel 3
(5765 MHz)

Channel 4
(5785 MHz)



Channel 5
(5805 MHz)

Channel 6
(5825 MHz)

Channel 7
(5845 MHz)

Channel 8
(5865 MHz)

Antenna Positions

Place your antenna as far away from electronic and metal components as possible. Any metallic surface will reflect radio waves and reduce your range. Position the video transmitter flat, so that the antenna is pointing vertical up or down. The antenna must be protected from crash damage. If the antenna is bent the video link will no longer work at the exceptional ranges as before.