

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.

Installation

Installation of the transmitter is easy. It comes with a pigtail connector that you can use to make your own cables. 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!

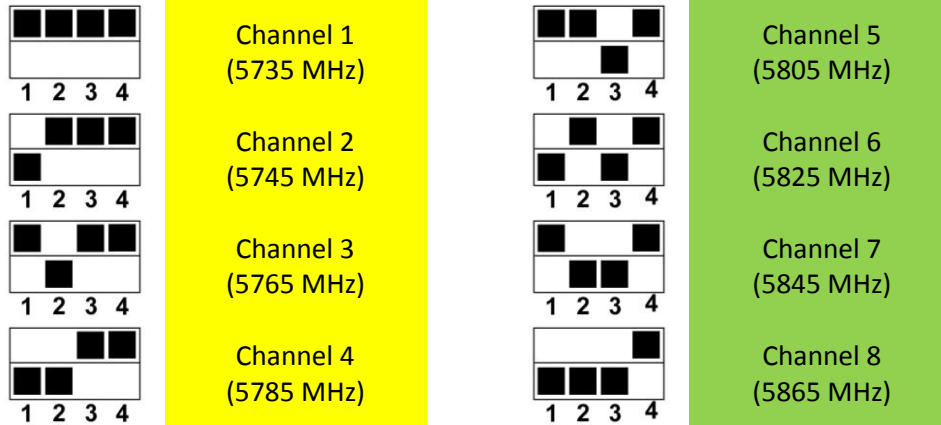
Attach the supplied 4-leaf Cloverleaf antenna with care. Do not bend or modify the top (receiving part) of the antennas! When travelling with your plane please use the provided transport case for the antennas to avoid damaging your antenna and reducing its range.

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.





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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the 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.