
# TACTIC™

FPV-T6

## FPV-T6

5.8GHZ 600mW TRANSMITTER

Tactic's FPV-T6 first person video transmitter (Tx) is intended for sending video signals from a camera (available separately) mounted inside an R/C hobby model to a 5.8GHz receiver (Rx) on the ground. Four bands with a total of 32 frequencies in the 5.8GHz spectrum can be user selected. For optimum use, operate the system away from other 5.8GHz transmitters, in areas having as few obstructions possible between the Tx and Rx. Allow for maximum space from other electronic components such as ESCs and cables, R/C receivers, high power servos, telemetry radios, etc

## HAM LICENSE REQUIRED – U.S.A.

Use of this product within the United States requires the user to have a "HAM" amateur radio license. Use of this product without having a HAM license is forbidden. The user bears all responsibilities for meeting the HAM licensing requirements, and the operation of the equipment at all times after purchase. If you purchase this product but do not have a HAM license, and do not wish to obtain a HAM license, return this product to the place of purchase. Tactic is not responsible for the use or conditions which result from use of this product. By agreeing to these terms and conditions the user agrees to understand all terms and bears all responsibilities resulting from the use of this product. See the links below for the Federal Communications Commission and The National Association for Amateur Radio for information about obtaining a HAM license

http://wireless.fcc.gov/services/index.htm?job=licensing&id=amateur

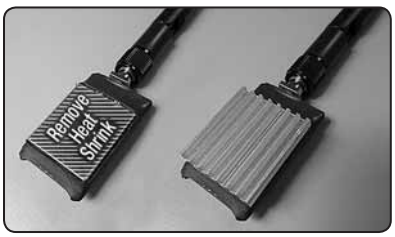
www.arrl.org

## ANTENNA INSTALLATION

Do NOT apply power to the transmitter if the antenna is disconnected as it could cause the Tx to overheat! Carefully thread the included antenna onto the RP-SMA receptacle on the Tx, being careful not to cross-thread. Turn the mounting screw until snug – do NOT overtighten.

## HEAT SINK INSTALLATION

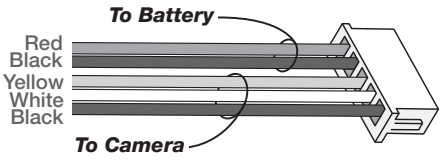
**WARNING!** The FPV-T6 Tx may become hot during operation. An aluminum heat sink is included which can help dissipate heat and extend the lifespan of the Tx, and can be attached if desired. Carefully remove the black heat shrink over the square flat area on the Tx to expose the Rf shield, making sure not to damage the pc board or electronic components. See your local electronics or hardware store for thermally conductive heat sink glue. Apply a layer of heat sink glue directly onto the flat metal Rf shield on the Tx. Press the heat sink onto the glue and allow the glue to dry. Make sure the heat sink is firmly in place before use.




## CONNECT TO CAMERA AND INPUT POWER

The included Y-wire harness connects the Tx to a camera and battery (both available separately). Attach the adapter's white connector to the Tx. Connection polarities are as follows:

| | |
|---|---|
| *Yellow = Video* | *Red = 7.4-22.2V* |
| *White = Audio* | *Black = Ground* |
| *Black = Ground* | |




***CAMERA CONNECTION:*** Attach the white/yellow/black wire to the camera's A/V signal output. Make sure the polarities on the camera's input matches those of the adapter. Use the included gray/yellow/black cable extension with USB Mini-B plug if necessary

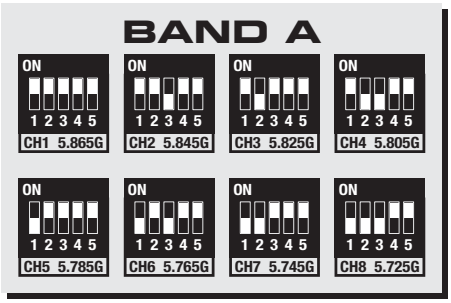
***BATTERY CONNECTION:*** Attach the red/black wire to the battery. Use the included cable extension with red connector if necessary. IMPORTANT: Make sure polarities match! Do NOT exceed the acceptable input voltage range of 7.4 – 22.2 volts, which can be achieved with a 2S-6S lithium-polymer (LiPo) battery.

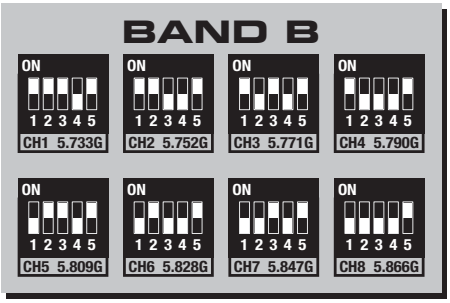
## SELECT THE CHANNEL/FREQUENCY

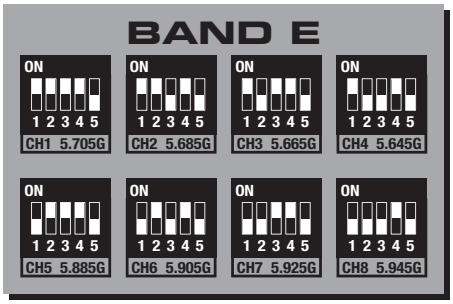
Refer to these charts to determine the frequency to transmit the video signal. The frequency number is shown at the bottom of each switch diagram:

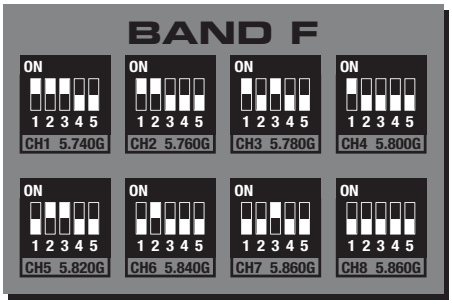
BAND SELECTION: Switches 4 and 5 are used to set either band A, B, E, or F. Place both switches UP for band A, switch 4 down and switch 5 up for band B, switch 4 up and switch 5 down for band E, and both switches DOWN for band F.

CHANNEL SELECTION: Switches 1, 2, and 3 are used to set the frequency. Set each respective switch to the location which matches that shown in the chart for band A, B, E, or F depending on your desired frequency.




## MOUNTING THE TX

Determine the best location to mount this Tx on the model, using double-sided tape, hook-and-loop material, etc. For optimum results, mount the Tx to allow for the best dissipation of heat/maximum amount of air flow over the Tx, with the least amount of obstructions as possible between the antenna and open air.

IMPORTANT! Keep all components clear of moving parts in/on the model!

Radiation Exposure Statement: This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

## SPECIFICATIONS

**Input power: 7.4-22.2V (2-6S LiPo)**
**Channels: 32**
**Frequencies: 5.645 – 5.945GHz**
**Output power: 600mW**
**Antenna gain: 3 dBi**

**Range: *1500 meters**
**Dimensions: 35 x 22 x 8mm (1.4 x 0.9 x 0.3") w/o heat sink or antenna connection**
**Weight w/o antenna or heat sink: 9.5g (0.34 oz.)**

** maximum range in open areas free of signal obstructions*

## 1-YEAR LIMITED WARRANTY

Tactic warrants this product to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase. For service on your Tactic product if purchased in the U.S.A. or Canada, send it postpaid and insured to:

HOBBY SERVICES
3002 N. Apollo Dr., Suite 1
Champaign, IL 61822
Tel: (217) 398-0007 (9:00am - 5:00pm CST, M-F)
E-mail: hobbyservices@hobbico.com

- This product is suitable only for people of 14 years and older. This is not a toy!
- WARNING: CHOKING HAZARD - May contain small parts. Keep away from children under 3 years. Please retain packaging for future reference.
- No part of this manual may be reproduced in any form without prior permission.
- The contents of this manual are subject to change without prior notice.
- Tactic is not responsible for the use of this product.


TACZ5010Mnl
Made in China