

# SMURFS VTX PRODUCT MANUAL

## Product Specifications >>>

Model: SMURFS VTX  
 Frequency: 5.8G band, 5 frequency groups,  
 40 transmission frequencies  
 power rate: 25 / 100 / 250 / 800 / 1600mW  
 Antenna Interface: IPEX generation 1 interface  
 Input Power: 7V~36V  
 Adjustment Mode: Button operation, OSD control  
 Product Dimensions: 30\*30\*9mm  
 Product Weight: 12.7g  
 Mounting Holes: M2  
 Mount hole distance: 20\*20mm  
 VTX Protocol: IRC Tramp

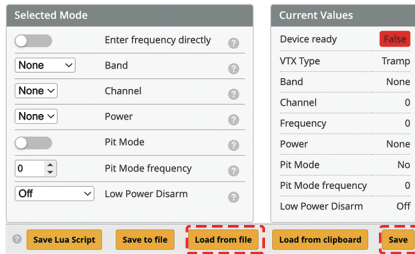


**WARNING**  
 Be sure to plug in the antenna  
 before powering up, or you will  
 burn this product!!!!

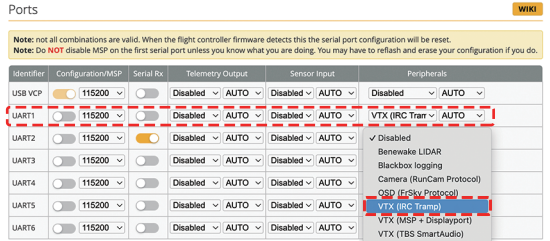


## Basic Settings >>>

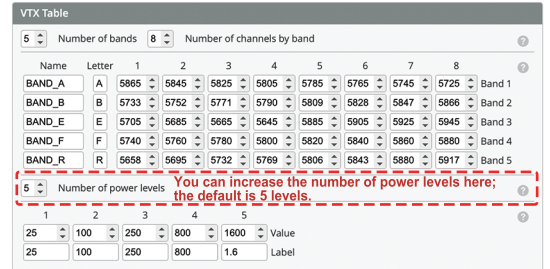
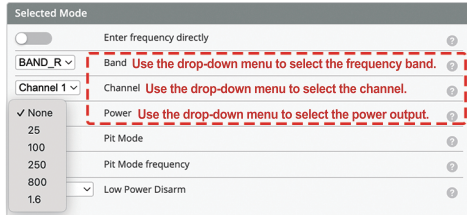
1. Open the VTX settings, click "Load from File" to select and import the corresponding VTX table, then save the configuration.



2. Access the port interface, enable the "Peripheral" → "IRCTRAMP" function for the corresponding UART port.



3. Navigate to the "Video Transmission (VTX)" page and configure the following settings:



## User's Guide >>>

### Frequency Setting:

Every short press of KEY\_FR key 1 time, the frequency will be incrementally and cyclically switched between CH1-CH8 and saved.

### Frequency Band Setting:

Long press KEY\_FR key for more than 3 seconds (>3 seconds and <10 seconds), the frequency setting switches to Band setting state, and the LED\_FR lamp will flash rapidly. At this time, every time you short press KEY\_FR key for 1 time, the frequency band will be switched to A-B-E-F-R incrementally and cyclically, and the LED\_FR lamp will flash 1-2-3-4-5 times correspondingly. Press and hold the KEY\_FR key again, or timeout (>10 seconds) without pressing the key, then exit this setting mode, the system will automatically update the band and frequency point parameter settings and save them.

### Power Settings:

1. For each short press of KEY\_PW key, the power level will be switched in 1-2-3-4-5 levels from low to high progressively and cyclically, and the LED\_PW lamp will flash 1-2-3-4-5 times correspondingly, and the system will update the setting but not save the setting parameters.

2. Double-click the KEY\_PW key at any time (interval < 0.5 seconds), the power setting jumps directly to level 5 (maximum power), and the LED\_PW light is always on.

3. To prevent higher power from burning out the amplifier module, this product does not save the user's power setting parameters and always starts from level 1 (lowest level) at power up.

4. Press and hold the KEY\_PW key for more than 3 seconds, the system will shut down serial (IRC) communication and will not resume until a reboot.

5. Use BetaFlight to set the Pit Mode. When in Pit Mode, the LED\_PW light blinks frequently.

### Restore Factory Settings:

Press LED\_FR key for more than 10 seconds in any state, the system restores to the factory setting parameters and saves them.

For more details please access: [www.axisflying.com](http://www.axisflying.com)

