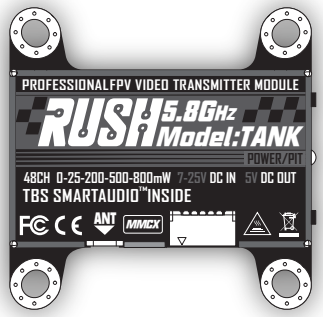
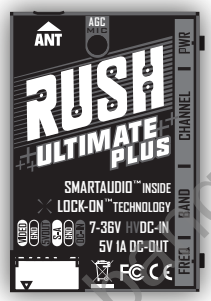
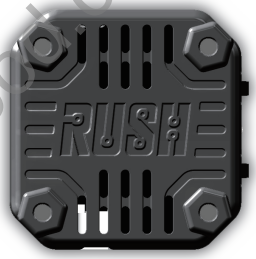
FPV RACING RUSH TANK Series 5.8GHz Video Transmitter USER MANUAL

WARNINGS Read this user manual before use.

- The user needs to have relevant professional knowledge while mounting or operating the VTX product, any illegal use may cause potential danger.Please ensure that you have the skills of operating radio equipments, or operate under the guidance of a professional.Read this manual carefully before you use.For those who ignore the following statement or violate the operating regulations, the user assumes the responsibility for any personal injury and property damage.
- The VTX will generate a lot of heat while normal working, please ensure adequate airiflow to provide a well-ventilated environment, and direct touch may cause burns.Please ensure all the cables and plugs are installed correctly.Before powering up, please ensure the antenna has been installed correctly to the VTX RF output.There are a large number of precision components in the VTX, please do not disassemble, repair or modify this product personally.Contact your dealer for technical support when the VTX breakdown.
- Please follow the local radio regulations, HAM licensed is required for operating on HAM channels, and HAM power levels, some channels need to be notified to the local radio regulatory agency before use. Ensure you are in accordance with all local laws and regulations about the drones and radio. It is strictly forbidden to fly in the no fly zone such as airport, military facilities and over corwds.

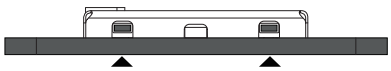
Specifications

	ULTIMATE	ULTIMATE PLUS	ULTIMATE MINI	RACING
				
	36*36*4.5mm 30-30.5mm spacing holes 6.8g	23.5*34*4.5mm 6.6g	28*29*4.8mm 20mm spacing holes 5.2g	21.5*34*4mm 5.7g

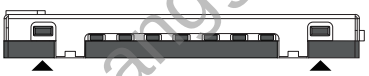
Power	25-200-500-800mW			25-50-200-500mW
Channel	48CH (US version has 37 channels)			
Voltage	7-26V DC IN	7-36V DC IN		
Audio	No	Built-in AGC MIC	Support audio input	No
Software	RUSH × LOCK-ON TECH	TBS SmartAudio		

Botton function

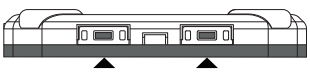
TANK ULTIMATE



TANK ULTIMATE PLUS / RACING



TANK ULTIMATE MINI



Press FREQ to set 1-8 channes, press and hold FREQ to set band.

Press PWR to set transmit power, press and hold PWR to switch PIT mode.

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LED DISPLAY

The TANK Series VTX uses 4 red channel LEDs, 3 blue band LEDs, and one RGB power LED. They display the VTX status in real time and can be linked to the SmartAudio control.

Frequency table

● LED OFF ☼ LED FLASH ☼ LED ON

CHANNEL	BAND A ☼ ● ●	BAND B ☼ ● ●	BAND E ☼ ☼ ●	BAND F ☼ ☼ ●	RaceBAND ☼ ☼ ☼	LowRace ☼ ☼ ☼
1 ☼ ● ● ●	5865	5733	5705 !	5740	5658 !	5362
2 ☼ ● ● ●	5845	5752	5685 !	5760	5695 !	5399
3 ☼ ☼ ● ●	5825	5771	5665 !	5780	5732 !	5436
4 ☼ ☼ ● ●	5805	5790	5645	5800	5769	5473
5 ☼ ☼ ☼ ●	5785	5809	5885 !	5820	5806	5510
6 ☼ ☼ ☼ ●	5765	5828	5905 !	5840	5843	5547
7 ☼ ☼ ☼ ☼	5745	5847	5925	5860	5880 !	5584
8 ☼ ☼ ☼ ☼	5725 !	5866	5945	5880 !	5917 !	5621

The selections in ! requires HAM license to operate.legally. ■ selections are only available on special request.

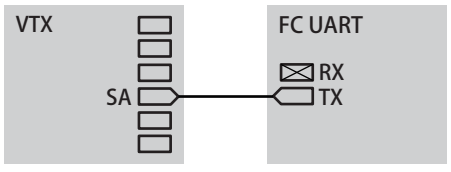
Power table

Power LED color ▶	GREEN	YELLOW	RED	PURPLE
ULTIMATE Series	25mW	200mW !	500mW	800mW
RACING Series	25mW	50mW	200mW	500mW

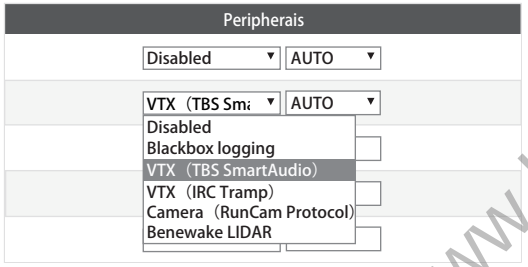
SmartAudio

RUSH TANK has built-in SmartAudio Control Protocol.After the VTX is connected to the FC or CF receiver, the VTX parameters can be quickly set via the OSD or radio control.

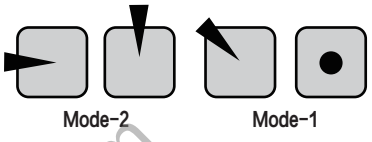
1.Connect the smartaudio port to the Flight controller Free UART-TX



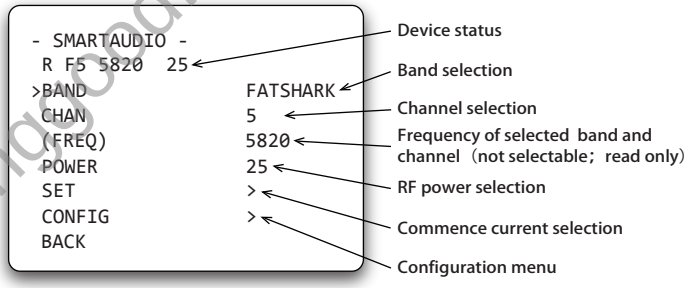
2.Open BetaFlight configurator, Goto Ports tab, Select TBS SmartAudio from Peripherals drop down menu, Speed can be left at AUTO.and save settings



3.Turn on the radio control,THR middle,YAW left,PITCH up,Enter the OSD menu.



4.In FEATURES > VTX SA menu,you can set the transmit frequency and power.



SmartAudio VTX top menu (Band/Channel mode)

For more information please visit: https://github.com/betaflight/betaflight/wiki/Unify-Smartaudio

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