







- Support 48CH
- Frequency range 5.8 GHz
- Output power up to 3W, ensuring long-range video transmission
- TBS SmartAudio protocol, allowing direct VTX control
- Intelligent indication and control system with LED backlighting
- Built-in fan for cooling prevents overheating

Product	
Product Name	VTX Pilotix R3000 5.8G 3.0W
Model	3W
SKU	4136
Description	High-Power long range Video Transmitter
Specification	
Frequency range	5362MHz-5945MHz
Output Power	Up to 3W (3000mW)
Protocol	TBS SmartAudio
Video Format	NTSC/PAL
Channels	48CH
Supported Bands	A-B-E-F-R-L
Power Levels	PIT/ 25mW/1.6W/2.0W/2.5W/MAX(3W)
Antenna Connector	MMCX
Input Voltage	DC 6V - 28V
Cooling	Aluminium alloy heat sink & built-in fan
Indication	Three-color indication
Buttons	×1
Size (mm)	40.8×24.8×13.3
Weight (g)	17.8
Mounting	20×20mm, M2
Working temperature	-10 - 60°C
Package includes	
×1 VTX Pilotix R3000 5.8G 3.0W	
×1 Cable SH1.0 - 6P on VTX to FC (125mm cable, connector on one end only)	
Note:	
The above parameters are measured under laboratory conditions.	

### Wiring diagram:

**⚠ The antenna should be installed before using!**

**Make sure the pin assignments on your flight controller match the required connections.**

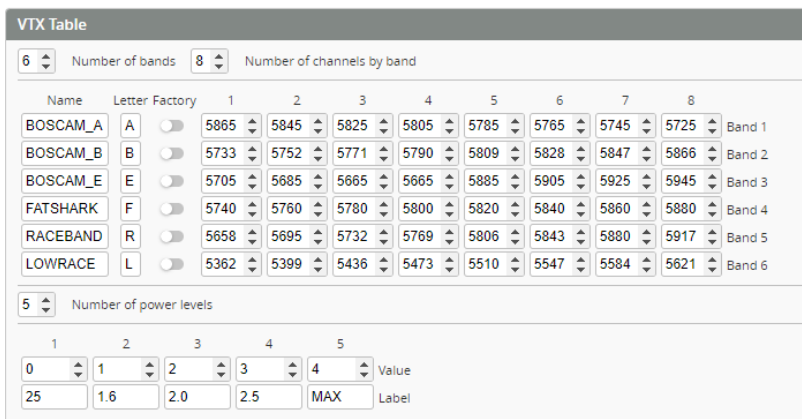
Pin Number	VTX Pin Name (6 pins)	Signal	Line	Color	FC Pin Name (6pins)
1	7-36V DC-IN	+	Red		VX
2	GND	-	Black		GND
3	DATA RX	TBS SmartAudio	White		TX
4	VIDEO	CVBS	Yellow		VTX
5	GND-OUT	GND			to external camera
6	5V-OUT	5V out			to external camera



### VTX Channel table:

Indicator	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●
FR/CH	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865	5845	5825	5805	5785	5765	5745	5725
B	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880
R	5658	5695	5732	5769	5806	5843	5880	5917
L	5362	5399	5436	5473	5510	5547	5584	5621

 \*Protocol: **TBS SmartAudio** in BetaFlight when using



### Operating Instructions:

- **Frequency Switching:** Single click to switch. (Blue light indicates the current frequency for CH1/CH2/CH3)
- **Frequency Group Switching:** Press and hold for 2 seconds to enter the switching mode, then single click to switch. (The red light's blinking indicates the current frequency group) Frequency Groups: A/B/E/F/R/L
  1. Power Indicator/Green Light
  2. CH1 Frequency Indicator/Blue Light
  3. CH2 Frequency Indicator/Blue Light
  4. CH3 Frequency Indicator/Blue Light
  5. Frequency Group Indicator/Red Light
- **Power Switching:** Press and hold for 6 seconds to enter the switching mode, then single click to switch. (The green light's blinking indicates the current power level)
- **Power Levels:** 25mW/1.6W/2.0W/2.5W/MAX(3W)  
(After setting, it will automatically save and exit after 8 seconds of inactivity)