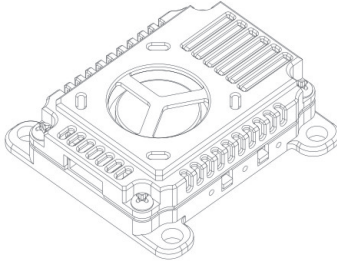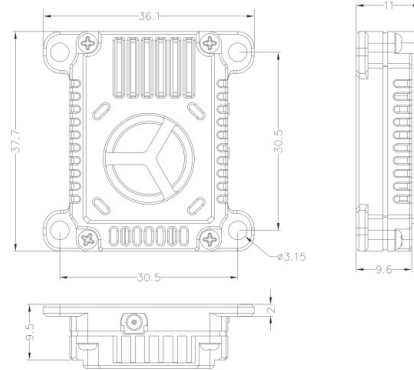# Operation Instruction of 5.8GHz 3W Transmitter (TX)

## I. Product appearance

II. Product dimension

III. Specifications:

1. 48CH 5.8G frequency range: (A.B.E.F.R.L; 5362MHz-5945MHz);

2. Max power: 3W (25mW/1000mW/2000mW/3000mW adjustable);

3. Input voltage: DC 7V-36V, supporting 2-8S battery input

4. Antenna connector: MMCX

5. Smart audio: IRC Tramp

6. Heat-dissipating method: aluminum alloy heat sink&fan

7. Hole spacing: 30.5mm*30.5mm /ø3.15mm

8. Dimension: 37.7mm*36.1mm*11mm

9. Weight: 16g

IV. Function introduction:
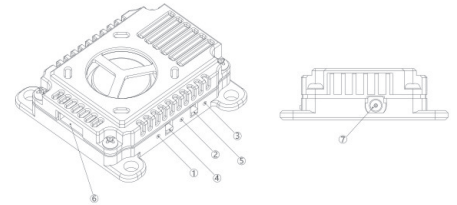
1. Channel indicator: Red LED

2. Band indicator: Blue LED

3. Power level indicator: Green LED

4. Band and channel changer button

5. Power changer button

6. 1.0 6P Power connector

7. MMCX antenna connector

V. Control method and LED indicator

1. Button ④ is used to switch band and channel; every time when button ④ is pressed for a short time to switch to the next channel, the red LED ① will flash, 1.2.3.4.5.6.7.8 in turn. The operation can be cyclic; see the following diagram for details!

Short press button ④ to switch channel								
Red	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
LED	Flash once	Flash twice	Flash for 3 times	Flash for 4 times	Flash for 5 times	Flash for 6 times	Flash for 7 times	Flash for 8 times

2. Band will be switched if button ④ is pressed for a long time and the blue LED will flash if the key is pressed for 5s, A.B.E.F.R.L in turn. The operation can be cyclic; see the following diagram for details!

Long press key ④ for 5 seconds to switch frequency band						
Blue	Band A	Band B	Band E	Band F	Band R	Band L
LED	Flash once	Flash twice	Flash for 3 times	Flash for 4 times	Flash for 5 times	Flash for 6 times

3. Button ⑤ is used to switch RF power; every time when button ⑤ is pressed for a short time to switch to the next RF power level, RF power cycling between 25mW, 1000mW, 2000mW and 3000mW. Green LED is the RF power level indicator and its status is shown in the following diagram. 25mW LED will flash once, 1000mW twice, 2000mW for 3 times and 3000mW for 4 times. When the button is pressed and held for more than 3 seconds, the Transmitter will enter pit mode, the green LED will remain permanently on. See the following diagram for details!

1. Short press button ⑤ to switch RF power level; long press to enter Pit mode					
Green	Pit mode	25mW	1000mW	2000mW	3000mW
LED	Turned on	Flash once	Flash twice	Flash for 3 times	Flash for 4 times

Notice: The transmitter is equipped with temperature protection function. When the temperature of transmitter is higher than 100℃, the RF power of the Transmitter will be lowered for one level. If the temperature is still greater than 100℃, the power can be lowered for another level until the lowest power (25mW) is reached; at this time, the temperature of the Transmitter module will drop. When the temperature is lower than 95℃, the Transmitter power will return to the originally power level.

VI. Frequency Table

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

VII. Illustrate of 6P 1.0 Wiring

1 Red
2 Black
3 Yellow
4 White
5 Red
6 Black
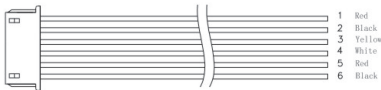
Wiring Table:

NO	1	2	3	4	5	6
FUN	7-36V	GND	Video	IRC	5VOut	GND
Color	Red	Black	Yellow	White	Red	Black

VIII. Notice for Use:

1. A certain space shall be reserved when the transmitter is installed to ensure the air convection around the module and module cooling; otherwise, if the overheating protection of the module is started, the power emission will be lowered and even closed.

2. We suggested to ensure correct voltage scope and correct positive and negative anodes before powering-on to avoid element burning-out.

3. We suggested to confirm antenna has been installed at the RF output terminal before powering-on to extend the service life of transmitter.

4. Please read the Instruction before use to ensure correct wiring and extend the service life of transmitter.

IX. Packing list:
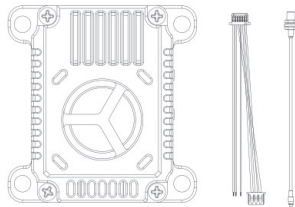
1. 1 * 5.8GHz VTX

2. 1 * MMCX interface antenna connection cable

3. 1 * 6P 1.0 connecting wiring