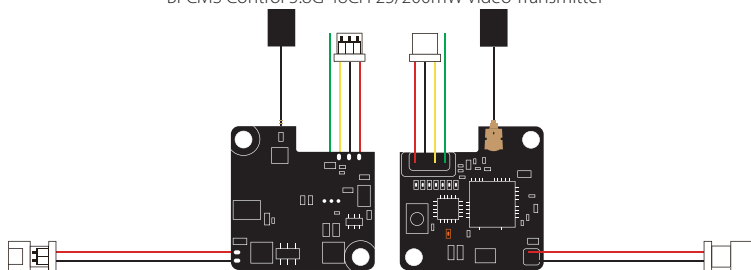# RunCam TX200U-US

BFCMS Control 5.8G 48CH 25/200mW Video Transmitter



## Frequency Setup

Button Function Switching

· Short press to CH;
· Long press 2 seconds to BAND;
· Long press 5 seconds to POWER;

## LED Status

1 Blue CH LED
CH1 ON, CH2~8 OFF;

5 Red Band LEDs
Represents respectively 1~5 Band

1 Orange Power LED
Orange LED blinks quickly—PIT Mode
Orange LED off—25mW
Orange LED constantly on—200mW

## Parameter

Frequency Channel: 5.8G 48CH
Output Power: 25mW / 200mW
Working Current: 5V@150~400mA
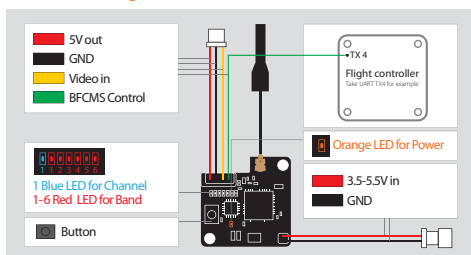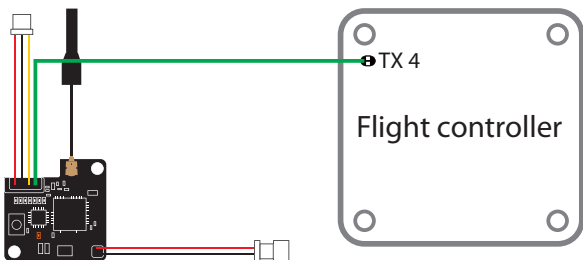Voltage out: 5V@max 250mA
Voltage in: 1S 3.5-5.5V

Video Input Impedance: 75 Ohm
Antenna : U.FL 5.8G 2dB Omni antenna
Weight: 2.5g (with antenna)
PCB Size: 19mm*19mm

## Instruction diagram



| Color | Function |
| --- | --- |
| Red | 5V out |
| Black | GND |
| Yellow | Video in |
| Green | BFCMS Control |

1 Blue LED for Channel
1-6 Red LED for Band

Button

TX 4
Flight controller
Take UART TX4 for example

Orange LED for Power

3.5-5.5V in
GND

## 1. Flight controller wiring

Note: Take UART4 for example



**TX 4**

Flight controller

## 2.Betaflight 3.1 or above setting

| Identifier | Configuration/MS | | Serial Rx | Telemetry Output | | Sensor Input | | Peripherals | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| USB VCP | ● | 115200 ⇕ | ○ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ |
| UART1 | ○ | 115200 ⇕ | ○ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ |
| UART2 | ○ | 115200 ⇕ | ● | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ |
| UART3 | ○ | 115200 ⇕ | ○ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ |
| UART4 | ○ | 115200 ⇕ | ○ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ | IRC Tramp ⇕ | AUTO ⇕ |
| UART5 | ○ | 115200 ⇕ | ○ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ | Disabled ⇕ | AUTO ⇕ |

## 3. Remote control

Note: Take Mode-2 for example

① BFCMS-FEATURES-VTX TR

② Change Selection

③ Edit Setting Values
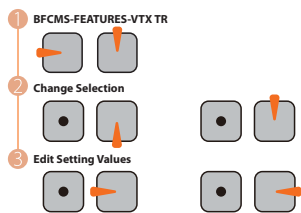


● If you connect VTX to Flight Controller (BetaFlight 3.3 or above) IRC Tramp protocol, the VTX will be controlled by Flight Controller and its frequency will be changed to F1 5740 and the button on VTX will give no more reaction.

| | |
| --- | --- |
| BFOSD 25mw | VTX 25mw |
| BFOSD 100mw | VTX 25mw |
| BFOSD 200mw | VTX 200mw |
| BFOSD 400mw | VTX 200mw |
| BFOSD 600mw | VTX 200mw |

## US Version 37 Channels

| Channel | CH1 | CH2 | CH3 | CH4 | CH5 | CH6 | CH7 | CH8 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 Band A | 5865 | 5845 | 5825 | 5805 | 5785 | 5765 | 5745 | 5725 |
| 2 Band B | 5733 | 5752 | 5771 | 5790 | 5809 | 5828 | 5847 | 5866 |
| 3 Band E | 5705 | 5685 | 5665 | 5645 | 5885 | 5905 | 5925 | 5945 |
| 4 Fatshark | 5740 | 5760 | 5780 | 5800 | 5820 | 5840 | 5860 | 5880 |
| 5 Race Band | 5658 | 5695 | 5732 | 5769 | 5806 | 5843 | 5880 | 5917 |