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3.3G 10W VTX Video Transmitter

1. Product parameters

- Input voltage: DC IN 24V-36V, large and stable output power, long transmission distance;
- Video format: PAL/NTSC;
- Transmit Power: 40 dBm $\pm$ 1dBm (MAX);
- Power factor: 5 levels: 300mW, 2W, 5W, 7W, 10W;
- Power adjustment: power adjustment button, POWER button switching
- Transmitting frequency: 64CH, see the frequency point table for details
- Channel selection: frequency band/frequency point adjustment button: long press CHANNEL button to switch frequency band, short press CHANNEL button to switch frequency point
- Weight: 35g (with housing, without antenna)
- Size (length, width and height): 44 * 29 * 16 mm
- Antenna interface: SMA

2. Transmitter wiring diagram

Interface	Definition	Action
RF OUT	RF output port	Connect the antenna to receive and transmit the signal
Video	Video signal input	Connect to flight control video signal output
GND	Power ground	Connect to the power ground terminal (negative) of the device
5VOUT	Voltage output	Internal power supply output 5V/1A
DATA	Half-duplex serial port	Connect the flight control board with SMART AUDIO protocol for frequency and power adjustment
GND	Power ground	Connect to the power ground terminal (negative) of the device
VCC	Power source	Power supply input, power supply range 24-36 V

3. Transmitter Operation Adjustment Section

The led next to the CHANNAL button is used to display the frequency bands and frequency points, There are 10 frequency bands and 8 frequency points in total. Flicker the frequency band first, flicker once to represent the first frequency band, and flicker twice continuously to represent the second frequency band, After that, the frequency point flashes again at an interval of 1 second, One flash represents the first frequency point, two consecutive flashes represent the second frequency point, and three consecutive flashes represent the third frequency point (and so on). After that, the power enters the regular flash at an interval of 1 second.

The LED Light Next to the POWER Button Is Used to Display the Power, and There Are 5 Powers in Total, Flashing Once Represents LEVEL1 Power, Flashing Twice Represents LEVEL2 Power, Flashing Three Times Represents LEVEL3 Power, Flashing Four Times Represents LEVEL4 Power, Flashing Five Times Represents LEVEL5 Power. After That, Enter the Regular Flicker of the Frequency Point of the Frequency Band at an Interval of 1 Second.

Transmitter CHANNAL key: short press the FM point and long press the FM band for 3 seconds. POWER key: short press to adjust the power level.

4. Frequency table

	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
1 Band- A	3360	3380	3400	3420	3440	3460	3480	3550
2 Band- B	3200	3220	3240	3260	3280	3300	3320	3340
3 Band- C	3330	3350	3370	3390	3410	3430	3450	3470
4 Band- D	3170	3190	3210	3230	3250	3270	3290	3310
5 Band- E	3320	3345	3370	3395	3420	3445	3470	3495
6 Band- F	3310	3330	3355	3380	3405	3430	3455	3480
7 Band- G	3220	3240	3260	3280	3300	3320	3340	3360
8 Band- H	3060	3080	3100	3120	3140	3160	3180	3200

5. Description of Remote Control Operation OSD Parameter Setting (serial Port Control Parameter Setting) (SmartAudio 2.1 Protocol)

The image transmission power levels 25 mW, 500 mW, 800 mW, 2.5 W and 5 W of the flight control OSD respectively correspond to the local transmission power: 25 mW, 500 mW, 800 mW, 2.5 W and 4 W