



FPVspeed™

Ultra-Slim DIY Series

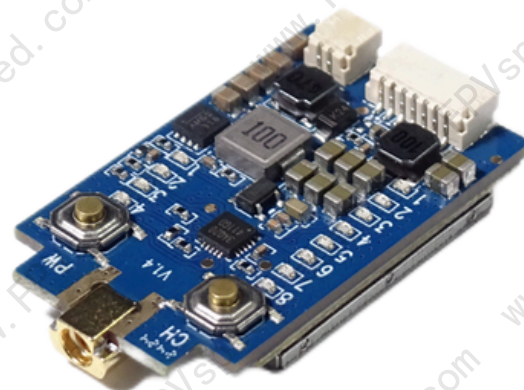
# FPV Video Transmitter

VTX-S4

1.2/1.3G 1W 8CH

## KEY FEATURES

- Channels: 8CH
- Control Protocol: IRC Tramp, OSD parameter adjustment
- Power Levels: PIT, 25mW, 200mW, 1000mW
- Input Voltage: 7-36VDC (2-6S)
- Output Voltage: 5VDC/0.5A
- Video Format: PAL/NTSC
- Design: Light and thin suitable for DIY
- Weight: 10g (excluding antenna)
- Dimensions: L35.8 x W22 x H7.5mm
- Antenna Interface: MMCX
- Modulation Type: FM
- Transmission Power: 30dBm  $\pm$  1dBm (MAX)
- Channel Selection: "CH button"- Short press to switch frequency points.
- Power Adjustment: "PW button" -Short press to switch.



## APPLICATIONS

- FPV Drone Racing
- UAV Communication Systems
- Remote Vehicle Monitoring
- Wireless Video Transmission Systems

## TRANSMITTER OPERATION AND ADJUSTMENT

### 1. POWER ADJUSTMENT INSTRUCTIONS

- Power Adjustment: Use "PW button" to adjust power levels. Short press to cycle between PIT, 25mW, 200mW, 1000mW.
- Power Indicator Light: Red light remains on to indicate power level: PIT, 25mW, 200mW, 1000mW.
- Temperature Protection: If the temperature exceeds 100°C, the power level will reduce stepwise until the lowest level (25mW) is reached. Once the temperature drops below 95°C, power will return to the original level.

Short Press to Adjust Power	PIT	25mW	200mW	1000mW
Red Indicator Light Always On	LED 1	LED 2	LED 3	LED 4

Note: The power levels of 200mW, 1000mW must be properly matched with an antenna. Otherwise, the power amplifier may burn out due to improper power transmission.



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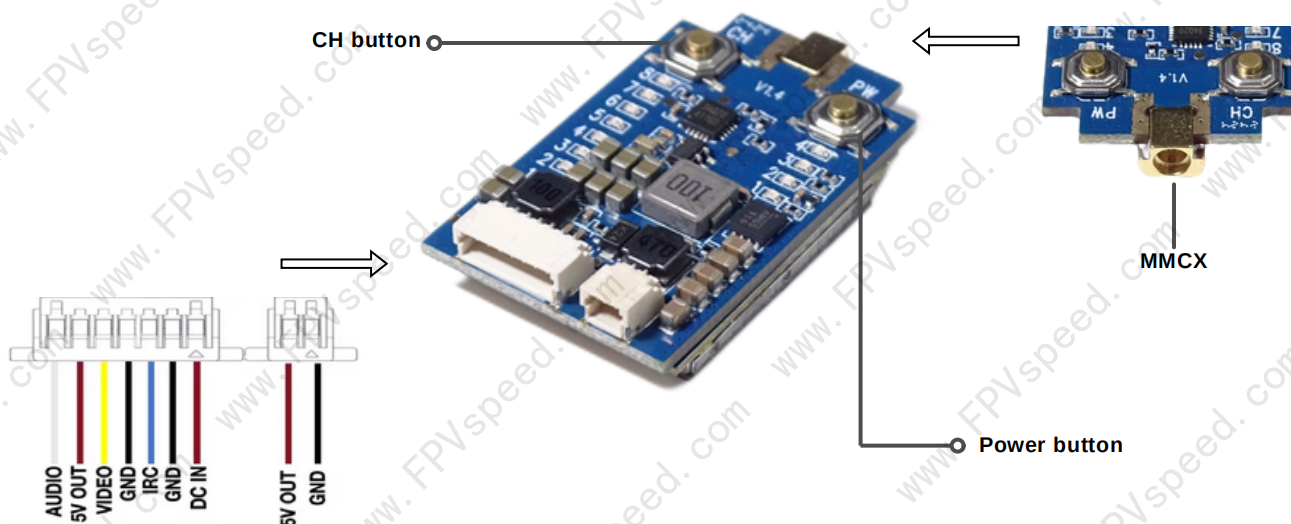
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## 2. FREQUENCY CHANNEL ADJUSTMENT

- Use "CH button" to adjust frequency channels. Short press to switch the channel.

Short Press to Switch Channels	Frequency Channel	CH1 1120 MHz	CH2 1160 MHz	CH3 1200 MHz	CH4 1240 MHz	CH5 1258 MHz	CH6 1280 MHz	CH7 1320 MHz	CH8 1360 MHz
	Green Indicator Light Always on	LED 1	LED 2	LED 3	LED 4	LED 5	LED 6	LED 7	LED 8

## TRANSMITTER WIRING DIAGRAM



## DISCLAIMER



This product is intended for civilian and commercial use only. It is strictly prohibited from being used for any military purposes or activities.



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## PRECAUTIONS

- Please install the antenna before powering on to avoid equipment malfunction.
- Select the appropriate operating frequency and set both the transmitter and receiver to the same frequency (refer to the frequency table for details).
- The transmitter has high power output. Do not touch the casing while it is in operation to avoid burns (the casing becoming hot is normal; please use it with confidence).
- If the casing is removed to reduce weight, the product can still be used normally, but the transmission power may slightly decrease due to increased temperature of the transmitter.
- Input voltage is 7-36V (2-6S). Do not exceed this voltage range.
- Output voltage/current is 5V/0.5A. Ensure the camera is within this voltage/current range. If the camera current exceeds 0.5A, do not use the voltage output from this product, as it may damage the transmitter's power module.
- Both 5V and 5V-OUT are output ports. Do not connect to power input or battery to avoid damage.