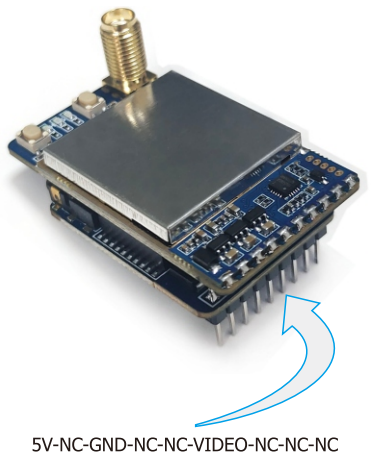
7.2GHz Video Receiver User Manual



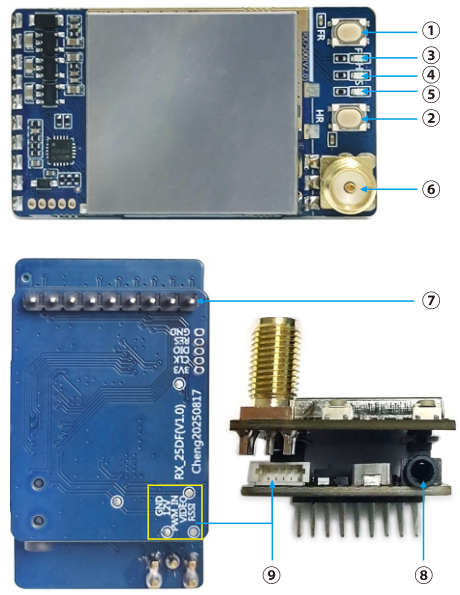
5V-NC-GND-NC-NC-VIDEO-NC-NC-NC

Model No.: VRX-75D

Ⅰ. Overview

The VRX_75D is a CVBS video input module designed for FPV goggles, with a receiving frequency of 7.2G. It can also be used as a standalone receiver and features a 2.5mm headphone jack for video output. It has a 1.0mm 5-pin ribbon cable interface, DC power input of 5-36V, video output, and RSSI signal strength level output, as well as a PWM pulse count adjustment channel interface.

Ⅱ. Module images and functional diagrams



①: **Frequency band button:**

Short press to adjust the current frequency band FR1~FR8, with a green light indicating the cycle. The number of flashes represents the current frequency band.

Long press the frequency adjustment button for 2 seconds to enter the automatic search mode. The flashing blue indicator light indicates that the channel is currently being automatically searched for image signals. After the search is completed, the image of the channel with the strongest signal will be displayed.

②: **Channel button:**

Short press to adjust the current channel CH1~CH8, with a red light indicating the cycle. The number of flashes represents the current channel.

③: **Green LED indicator light:**

The number of flashes represents the current frequency band.

④: **Blue LED indicator light:**

When flashing, it indicates that the channel is currently being automatically searched.

⑤: **Red LED indicator light:**

The number of flashes represents the current channel.

⑥: **Antenna**

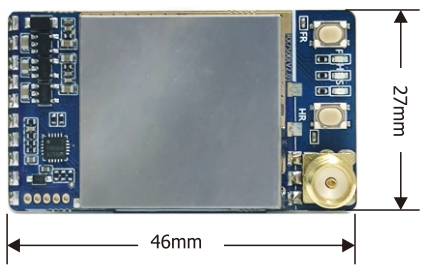
⑦: **FPV glasses:** pin header 2.54mm

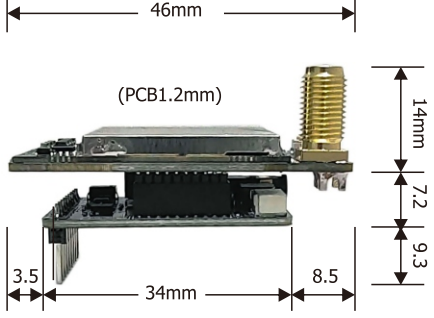
⑧: **CVBS headphone interface**

⑨: **1.0mm Cable Socket:**

a. GND b. DC 5-36V c. PWM d. VDEO e. RSSI

Ⅲ. Dimension:

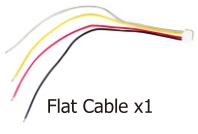




Ⅳ. Accessory:



AV Cable x1



Flat Cable x1



Antenna x1



Manual x1

Ⅴ. General Parameters

DC Characteristics	
Power Supply	5.0V & DC 5-36V
Current Consumption	420mA Max
Environmental Specification	
Operating Temperature	-10~+65 ºC
Storing Temperature	-30~+85 ºC
Operating Humidity	85%RH
RF	
Receiving Frequency Range	6110~7210MHz
Voltage Standing Wave Ratio	2:1
Demodulation system	FM/PLL
IF	480MHz
ANT. input impedance	50Ω,Typ.
LO Frequency stabilization	±200kHz
LO Frequency Precision	±200kHz
LO Control	PLL
Input LO Leak	-65dBm
Receiving Sensitivity	-95dBm
Input Level Range	-95dBm~+5dBm
Video Characteristics	
Video Output impedance	75Ω,Typ.
Video Output Level	1Vp-p,Typ.
Video Polarity	Negative polarity
Video Frequency Response	±5dB,Max.50Hz~6MHz
Differential Gain	±5%,Max
Differential Phase	±5Deg.,Max
3dB IF Wide Band	16.5MHz
SNR.	38dB,Min
RSSI Output Voltage	1.3~0.7V

Ⅵ. Channel SettingTable

Frequency Table

Channel Band	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	6110	6130	6150	6170	6190	6210	6230	6250
Band B	6270	6290	6310	6330	6350	6370	6390	6410
Band E	6430	6450	6470	6490	6510	6530	6550	6570
Band F	6590	6610	6630	6650	6670	6690	6710	6730
Band R	6750	6770	6790	6810	6830	6850	6870	6890
Band P	6910	6930	6950	6970	6990	7010	7030	7050
Band H	7070	7090	7110	7130	7150	7170	7190	7210
Band U	6115	6265	6425	6585	6745	6905	7065	7185