

5.8GHz Video Link

User Manual

V1.0

2012-9-13

Disclaimer

Thank you for purchasing this product. Please read the instructions carefully before installing the hardware and software for this product, this will ensure trouble free operation of your Video Link RX and TX. Please use this product in accordance with the provisions of your local authorities and regulations.

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Introduction

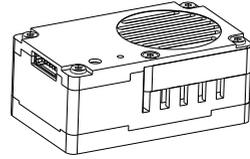
The Wireless Video Link includes both transmitter (TX) and receiver (RX) modules, working in the ISM frequency band of 5.8GHz (5725-5865MHz) of ISM frequency band. Analogue modulated video signals are sent wirelessly by the TX module to the RX module, by which the signal will be demodulated and sent to a display. There are 8 wireless channels can be selected when you are using these modules, these are:CH1-5705MHZ, CH2-5685MHZ, CH3-5665MHZ, CH4-5645MHZ, CH5-5885MHZ, CH6-5905MHZ, CH7-5925MHZ, and CH8-5945MHZ.

The characteristics of this product are: small size, low power consumption and high sensitivity. The product can be used in many applications requiring wireless video communication. When used in the aero-modeling hobby, the Wireless Video Link TX will be mounted to the aircraft, while the Wireless Video Link RX is connected to a display screen, allowing video signal wireless transmission.

Contents

5. 8GHz Video Link TX x1

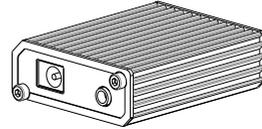
Analogue modulated video signals will be sent wirelessly by the TX module, working in the frequency band of 5.8GHz with 8 channels.



5.8GHz Video Link RX x1

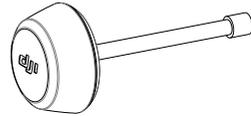
Connects to a display screen.

The signal will be demodulated and sent to the display by the RX module, working in the frequency band of 5.8GHz with 8 channels.



Antenna x2

Optional, please make purchase according to your need.



Video Input Cable x1

Connects the TX to the video input source, with a port connecting to the battery for power supply,



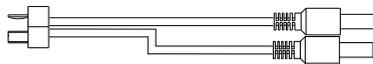
Video Output Cable x1

Connects the RX module to a display screen, transmitting video signal to display on the screen.



Power Cable x1

Connects the battery to the RX module and the display screen through the power cable for power supply.

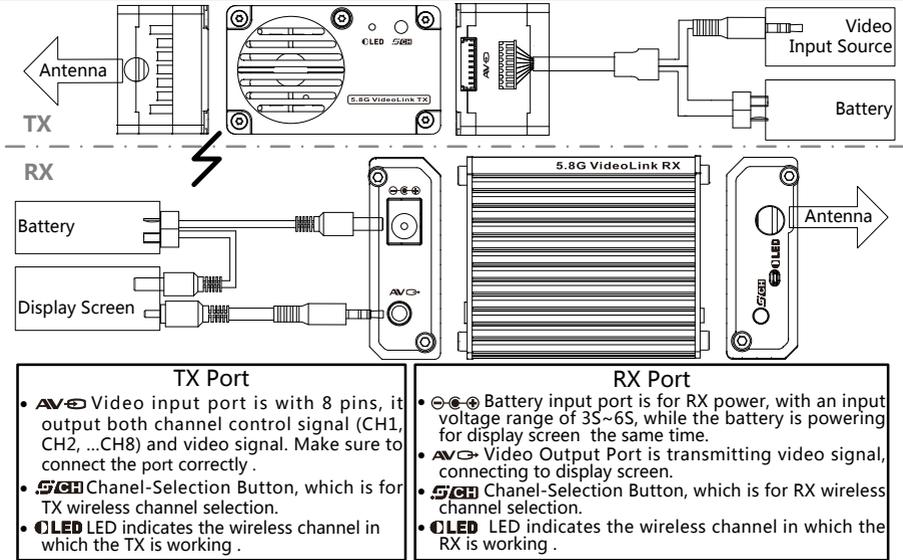


Installation

STEP1. Please assemble the antennas to the Wireless Video Link TX and RX.

STEP2. Connects the Wireless Video Link TX to a video input source, and then the Wireless Video Link RX to a display screen and battery.

STEP3. Make sure the Wireless Video Link TX and RX are working on the same channel by using the channel-selection button; refer to the LED indicator flash pattern.



Important:

- The antenna **MUST** be connected before power on, otherwise electronics damage may occur
- Make sure the antenna head of the video TX is pointing down, and the antenna head of the RX is pointing up. Make sure there is no obstacle between antennas; otherwise the communication range will be reduced.

LED Indicator

CH 1	● ● ●	CH 2	● ● ● ●
CH 3	● ● ● ●	CH 4	● ● ● ● ●
CH 5	● ● ● ● ●	CH 6	● ● ● ● ● ●
CH 7	● ● ● ● ● ●	CH 8	● ● ● ● ● ● ●

Red LED blinks once after pressing the channel-selection button, indicating successful selection.

Specification

Performance Parameter	
Outdoor/RF Line-of-Sight Range	1.2Km
Transmit Power	28dBm ± 1dBm
Receiver Sensitivity (1%PER)	-90dBm ± 2dBm
Frequency Band	CH1-CH8
	● CH1 : 5705MHZ
	● CH2 : 5685MHZ
	● CH3 : 5665MHZ
	● CH4 : 5645MHZ
	● CH5 : 5885MHZ
● CH6 : 5905MHZ	
● CH7 : 5925MHZ	
● CH8 : 5945MHZ	
Physical Parameter	
Operating Temperature	-20~70°C
Size (No Antenna)	● TX: 50cmX30cmX22cm
	● RX: 55.5cmX48cmX17cm
Weight (No Antenna)	● TX: 39g
	● RX: 49.5g
Hardware Supported	
Antenna Options	SMA
Supply Voltage	3S~6S
Transmitter Current	1050mA ± 50mA(@6V)
	860mA ± 50mA(@8V)
Receiver Current	680mA ± 50mA(@10V)
	575mA ± 50mA(@12V)
Receiver Current	160mA ± 10mA(@6V)
	125mA ± 10mA(@8V)
	103mA ± 10mA(@10V)
	90mA ± 10mA(@12V)
Software Supported	
Built-in Functions	● 5.8GHZ Broadband FM Video Transmit & Receive Synchronously
	● Analog Video Output to Display
	● 8 Transmitting and Receiving Channels

Trouble Shooting

No.	What	Why	How to
1	The wireless video RX and TX modules	The RX and TX modules are not set to the same channel.	Please make sure RX and TX modules are on the same channel by using the channel-selection button.
2	communication is not working.	The power supply for the TX module is missing or low	Please make sure that the batteries are fully charged for the TX module.
3		The power amplifier of the TX may be damaged	Please contact us or your dealer.