

Dragon Fire Series VLD-3000T (with intercom) 2-channel full function video transmission system







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Instruction Manual for Dragon Fire Series VLD-3000T (with intercom) 2-channel full function video transmission system

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1. About this user manual + Product Overview + Product List

About this user manual

This user manual introduces VLD-3000T 2-channel full function wireless video transmission specifications, instructions, attentions and troubleshooting.

Before using this product, please carefully read this manual. If you have any doubts or troubles while using this product, please contact us or our dealers.

Product Overview

VLD-3000T is a innovative full HD wireless video transmission system. It includes two transmitters and one receiver, built in 2.4G intercom system. The two channels video transmission share one RF channel, the best video resolution supports 1080P/60HZ. This product is based on 5G wireless network technology for transmission. It has advanced 4x4 MIMO technology, adopted H.265 encoding and decoding technology for video processing, make the video quality clearer and the latency lower. This product also integrates independent 2.4G intercom system. This system has clear voice, easy to carry. It is a good partner of the team director for live broadcasting.

Product List

 Intercom system
power adapter X1
• 5.8G antenna X10
 2.4G antenna X3

Intercom system
 Headset X2
 Network cable X2
 S.8G antenna X10
 422 to network cable X2
 422 to network cable X2
 (optional)

D-Tap to 2-pin LEMO cable X2
 Gooseneck microphone X1
 Double ball head magic arm X2
 SDI cable X4

2. Product Features

High quality and low latency

This product supports HD-SDI&3G-SDI input and output, supports HDMI Full HD input and output, the best resolution is 1080P/60HZ.

It adopts H.265 encoding and decoding technology with high compression rate and high video quality, the latency as low as 70ms.

Optional video quality:

3 different video quality to select, easy to deal with bad wireless environment.

Two transmitters and one receiver share one RF channel

This product supports two channels of video signal transmit at the same time, and the best video resolution of each channel can reach 1080P/60HZ. Two channels of video signal share one RF channel, which improves anti-interference ability, saves RF frequency resources, and provides great convenience for users with multiple camera.

■ 4X4 MIMO

Combining 4x4 MIMO technology, this product has advantages over other WIFI products on the market in regards to transmission distance and video bitrate. Beamforming technology makes wireless signal more concentrated and stronger in the direction of transmission to reception, so that the wireless signal can transmit further, more anti-interference, more stable.

RS422, RS232 transparent transmission

This product supports RS422, RS232 transparent transmission, which is convenient for the device connected to receiver to transmit control commands to camera, such as the pan-tilt-zoom(PTZ) camera.

Support point-to-point and RTSP streaming mode

This product supports both point-to-point and RTSP streaming mode. In point-to-point mode, the product supports two transmit one receive and the video output port is HDMI or SDI. In RTSP streaming mode, the product supports two transmit one receive and four transmit multiple receive, and the video stream port is RJ45 network port. There are more choices for different applications.

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Support intercom

Built-in independent 2.4G intercom module, makes sure the cameramen and director can still get connected by intercom if lost video signal. It is convenient for the whole camera crew during filming.

Each transmitter and intercom system host is equipped with 3.5mm headset jack. The transmitter and intercom system host can work as one-to-one full-duplex intercom or one-to-many broadcasting. The intercom system has both hands-free and headset dual-function port, and the headset jack supports the popular four-segment 3.5mm mobile phone's earphone in the market.

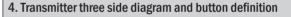
3. Product Specification CH1 5180, CH2 5200, CH3 5220, CH4 5240, CH5 5745, Working Frequency CH6 5765, CH7 5785, CH8 5805, CH9 5825 Antenna Mode Transmitter 2X2 MIMO external antenna. Receiver 4X4 external antenna Modulation Mode OFDM Transmitting Power 28dbm EVM ≤-28dB **Receiving Sensitivity** ≤-80dBm Channel Bandwidth 20MHz Wireless Standard 5.8G 802.11n ON **Network Encryption** Network Mode Point-to-Point private protocol, RTSP protocol 800m (each channel video bitrate is 8 Mbps) Transmission Distance 70ms (min) Transmission Delay Support **Bind Function** Support HDMI1.4 HDMI Protocol SDI: SMPTE 296M 720p50,720p59.94,720p60 SMPTE 274M 1080i50,1080i59.94,1080i60,1080p23.98,1080p24, 1080p25,1080p29.97,1080p30 Video Resolution SMPTE424M 1080p50,1080p59.94,1080p60 HDMI: 720p50,720p59.94,720p60, 1080i50,1080i59.94,1080i60,1080p23.98,1080p24, 1080p25,1080p29.97,1080p30,1080p50,1080p59.94,1080p60 SDI or HDMI embedded audio Audio Format Video transmission audio: PCM sampling rate 48KHz 16bits Intercom audio: 3.5mm port analog input and output Video Compression Format H.265 encode/decode Remote Control RS422default, 232optional

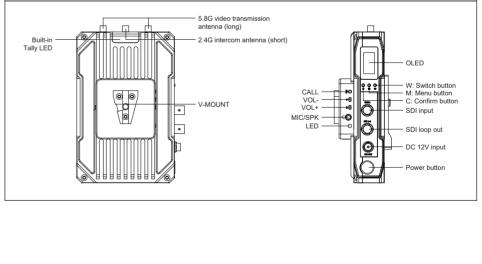
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Tally	Support Tally, dual Tally system		
Interface	TransmitterSDI input X1; SDI loop out X1HDMI input X1; HDMI loop out X1SMA 5.8G antenna connector X2SMA 2.4G antenna connector X1Built-in Tally X1External 3.5mm Tally input X2DV port X1F970 battery slot X1RS-422 interface X1LINE IN port X1Intercom module Bind button X1Intercom module call button X1Intercom module call button X1Intercom module headset jack3.5mm X1V-mount slot X1	Receiver SDI output X2; HDMI output x2; DB9 (Tally input) X1; Antenna connector X4; XLR input x1; RTSP interface X1; RS-422 interface X2 Power switch X1; OLED screen X1; Button X3; V-mount slot X1; F970 battery slotX1	
Power Consumption	8W	15W	
Operating Power Supply	DC 12V/2A	DC 12V/3A	
Temperature Range	-10°C - 50°C (Operating temperature) ; -40°C - 80°C (Storage Temperature)		
Operating Voltage Range	7-17V		

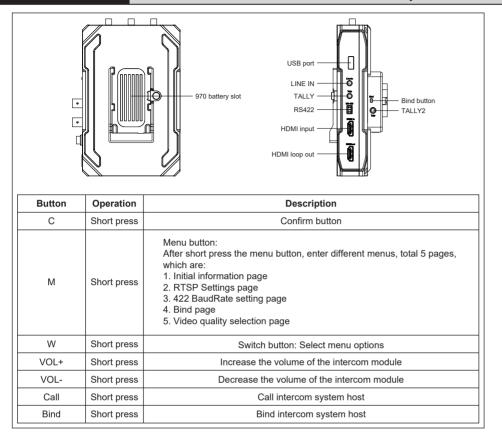


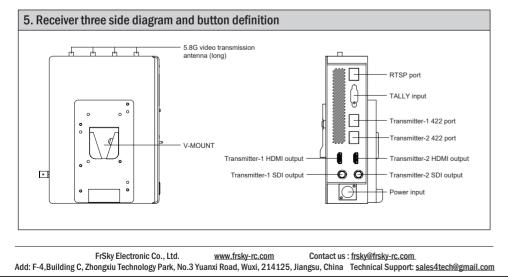


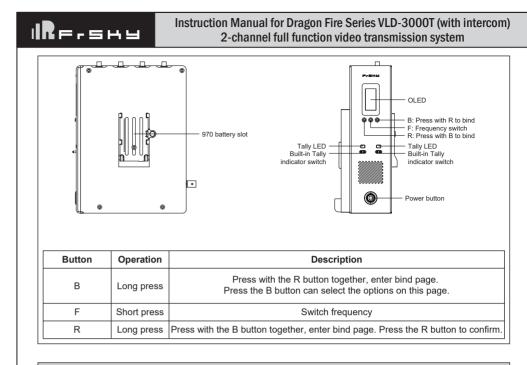
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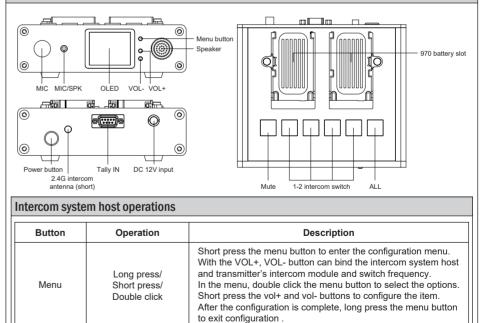
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6. Intercom system host three side diagram and button definition

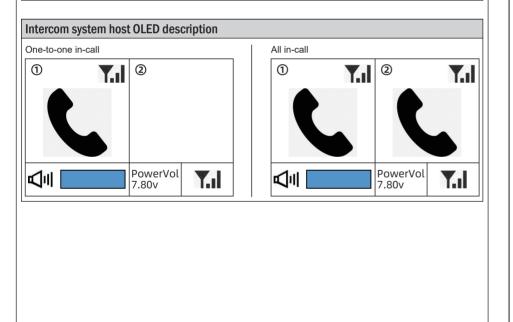


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ALL	Short press: broadcast	Enter broadcast mode: The intercom system host speak, all the transmitters listen.
1 ~2	Short press one of the buttons: one-to-one full duplex communication	The intercom system host can talk with the corresponding transmitter
MUTE	Short press: Mute	MUTE+ALL press at the same time: the intercom system host mute all the transmitters. Mute+1/2/3/4 button press at the same time: the intercom system host mute the corresponding transmitter.
VOL+	Short press: increase volume	Increase the volume, the system host will remember your current settings and there's no need to reset next time. In the menu setting, it is used to configure the specific item.
VOL-	Short press: decrease volume	Decrease the volume, the system host will remember your current settings and there's no need to reset next time. In the menu setting, it is used to configure the specific item.
Unplug headset	Hands-free mode	The hands-free microphone and speaker turn on.
Plug headset	Headset mode	The hands-free microphone and speaker turn off, and the headset turns on.



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How to switch the intercom system frequency and Group ID

Transmitter

Rotate the hole at the bottom of the transmitter intercom module

Intercom system host

In the default display, short press the menu button to enter the menu setting. In the menu, double click the menu button can switch Group ID and frequency.

Menu setting description

Master->Group ID:0 <--

This option can configure the Group ID of the intercom system. Different Group ID allows multiple intercom systems to work at the same place same time without interfering with each other. However, if switch the Group ID, the transmitter intercom module must re-bind with the intercom system host. (There are 8 group IDs can be set)

Master->Freq:7

This option can adjust the working frequency of the intercom system. Switch the frequency does not need to re-bind, just makes sure set the transmitter intercom module and the intercom system host at the same frequency. (0-7 channel, total 8 frequency)

Master->Group ID:0 <--Master->Freq:7

Double press Menu key into setting, Press Vol+ and Vol- for setup. Long press Menu key to exit setting.

Intercom system bind operation

First, set the transmitter and the intercom system host at the same frequency, and then short press the bind button on the transmitter , the transmitter intercom module LED will flash yellow.

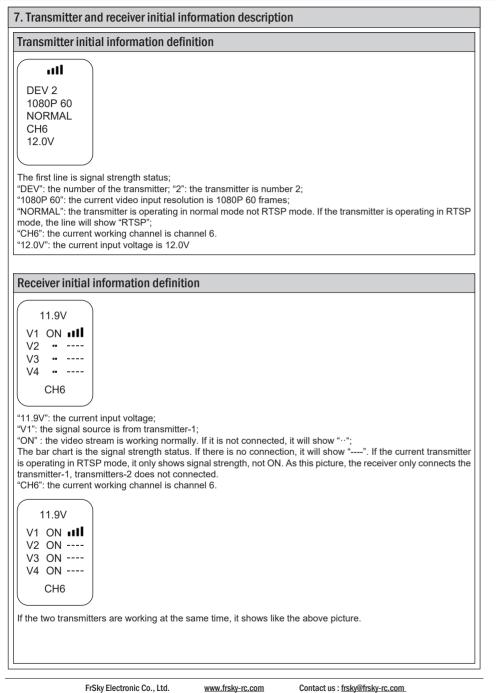
Short press the menu button on the intercom system host to enter the menu setting. If it is already in the menu setting, can directly operate.

Long press any of the "1-2" buttons (if the transmitter is set as intercom 1, long press the button 1, and so on), then transmitter LED will blink green, after that the LED will be yellow. It means the bind process is complete. Long press the menu button on the intercom system host to exit the setting, the two parties can talk normally.

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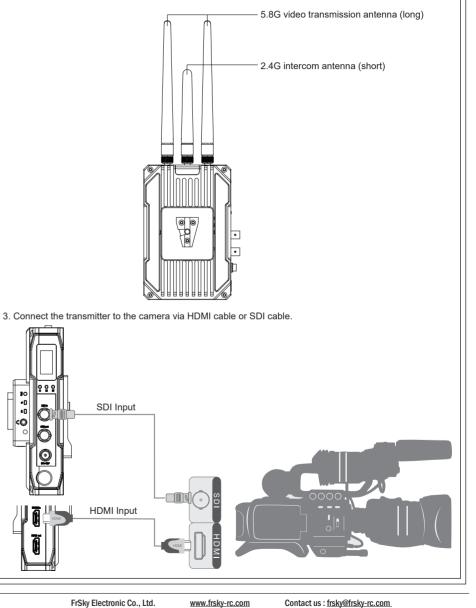
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8. Installation method and instructions for usage

Transmitter

1. Install the two 5.8 G long antennas to the SMA video signal antenna connectors on both sides. 2. Install the 2.4G short antenna to the 2.4G SMA intercom signal antenna connectors in the middle.



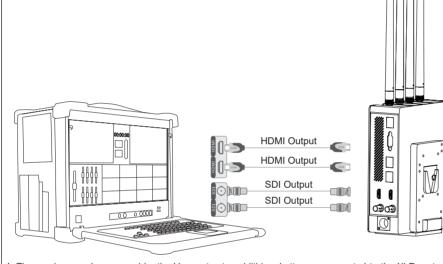


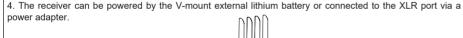
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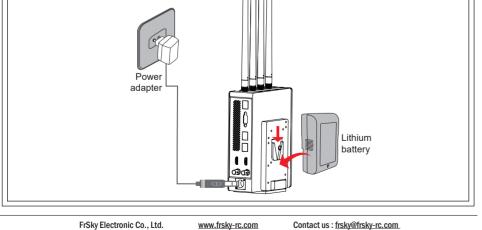
4. Please keep the transmitter over a height of 1.5 meters above the ground to ensure signal quality.5. To achieve the best signal quality, it suggests to keep at least 1.5-2 meters between multiple transmitters.6. The transmitter can be powered by an F970 battery or DC 12V power adapter.

Receiver

- 1. Install four 5.8G antennas to the receiver SMA video signal antenna connectors.
- 2. Put the receiver at least a height of 1 meter above the ground and fix the base to prevent tipping.
- 3. Connect the receiver to the switch console or monitor via HDMI or SDI cable.





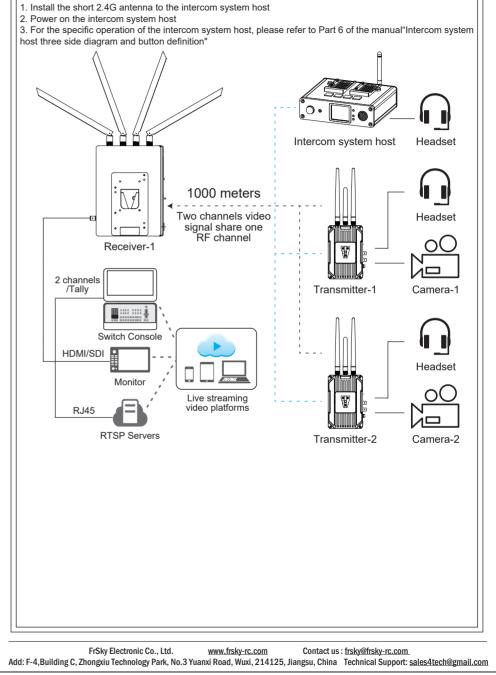


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Intercom system host



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9. How to bind, how to switch frequency

How to bind

The system has finished bind before leaving the factory. If you want to bind the device, first, power on the transmitter and receiver, and wait for about 1 minute. Then do the following operations on the transmitter

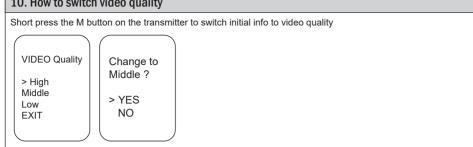
Wireless			
> BIND			
op-up dialog box			
DO BIND?			
DO BIND?			
> YES NO			
NO			
hoose YES, short press the (C button to confirm		
Binding			
please wait do not cut			
off power			
t this time, the receiver can d	lo bind operations		

(2) Receiver Long press the R and B but page.	tton (the left side button and the right side button) together for 3 seconds, enter
BIND?	
YES	
If you do not want to bind, y	you can press the R button (on the left) to switch, then the page is
BIND?	
NO	
If you want to bind, press the following picture	ne B button to confirm at "YES", and the receiver will also be in bind, and shows
Binding	
Waiting	
Walting	
	ter and receiver to complete binding. Until it shows"Bind finished"for 3 seconds ation, it means bind complete.
The receiver can bind with	the two transmitters at the same time, and the best way is to quickly set the and then set the receiver into bind mode. It will improve the bind success rate
save your time.	
	cess lasts about 3-4 minutes. If the transmitter is connected to the camera connected to the monitor, there may be a brief frame in the bind process
	nnect the transmitter and receiver power, please continue to wait until stable and continuous video. That means bind finished. Then you sho
disconnect the power af	ter bind finished, otherwise will cause bind fails.
How to switch frequence	Sy
	the middle of the receiver, the last line of the LCD screen "CH X" will start to lit will become the next frequency. It means that the system is switching to the
	no longer blinking, means that the current frequency point has been succes

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10. How to switch video quality



Press the W button to select the video quality, and press the C button to confirm. LOW video quality makes sure the system can work steadily in bad wireless environment.

11. How to switch RTSP, RTSP steaming instructions

RTSP streaming mode

In RTSP streaming mode, the two video sources transmit via HDMI or SDI to the two transmitters, and the receiver gets RTSP network signals from the two transmitters, monitors on the switch console via the network port to the router.

When using the RTSP mode, the transmitter needs to switch to RTSP mode.

Short press the M button on the transmitter to enter the RTSP mode, select RTSP, and then short press the C button to confirm.



The OLED screen will return back to the initial info and show RTSP, indicating that this transmitter has been in RTSP streaming mode. In this mode, there is no video output from the receiver's SDI or HDMI.

The video signal needs to be transmitted to the streaming software via the LAN port of the receiver for decoding and monitor. Using RTSP streaming mode needs software to decode. There are many streaming software. The following description takes VLC media player for example. Once the transmitter and receiver are connected, the transmitter network indicator light is on, and the receiver network connection shows normally; The transmitter connects the video source via HDMI or SDI, and the receiver connects to RTSP streaming devices through a LAN port.

Take VLC on PC as an example, after opening VLC, select "Media" option, then select "Open Network Stream...' Please enter a the network URL

rtsp://192.168.0.1X:8557/PSIA/Streaming/channels/, "X": the transmitter number. You can check the number on the initial info of the transmitter's OLED screen. If it is number 1, fill in 1. As below:

rtsp://192.168.0.11 :8557/PSIA/Streaming/channels/

If it is number 2, fill in 2. As below:

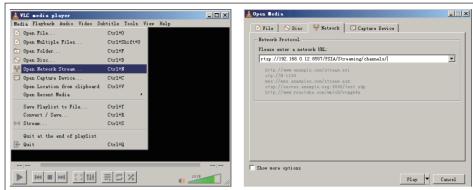
rtsp://192.168.0.12 :8557/PSIA/Streaming/channels/

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Click "play" to start RTSP streaming.

Attention: the transmitter must be connected to the video source, and the IP Address (e.g. the one used by the PC) of the RTSP streaming device must be on the same network segment as that of the encoding board. Otherwise, the RTSP streaming mode will not work.

12. About TALLY

Tally function instructions

First, connect the Tally light to the Tally output port on the transmitter, and then connect the switch console to the Tally input port on the receiver. After all the connection, the switch console can control the Tally light of the two transmitters. When the receiver is triggered at a low level, the transmitter Tally light will be on.

The transmitter tally port and the receiver Tally port is different. The transmitter Tally port is standard \$\Phi3.5mm\$ headset jack: The receiver Tally port is a DB9 female head interface:

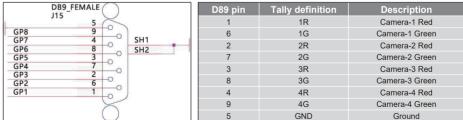
VLD-3000T system has two channels Tally signals,

One channel is built in the transmitter and receiver, the transmitter built in a Tally light and can also connects an external Tally light.

The other channel is on the intercom system host and the transmitter intercom module (external Tally light is required)

Two channels of Tally signals are independent of each other and do not interfere with each other.

The VLD-3000T transmitter has an built-in TALLY light, and can also connect to an external Ø3.5MM TALLY light. The TALLY input port DB9 is defined as follows:



About built-in TALLY system

The VLD-3000T product has a built-in TALLY indication system, which can send TALLY signals to transmitters-1 and transmitter-2 without connecting an external TALLY console. It can also connect to external TALLY console signals.

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Instructions for use:

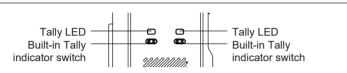
1. Use the built-in TALLY system

Switch the built-in TALLY indicator switch on the receiver to operate the TALLY indicator light on the transmitter. The two switches work independently and correspond to transmitters-1 and transmitter-2. The two LED indicators above the switches can indicate the status of TALLY.

2. Use the external TALLY system

When you need to use an external TALLY system, you need to place the two built-in TALLY switches on the receiver to the middle position. Then you can normally use the external TALLY system.

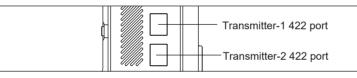
Attention: The built-in TALLY system and the intercom host integrated TALLY are not the same TALLY system, and the signals are independent of each other.



13. RS232/RS422 transparent transmission and PTZ control function

Attention: the connector is RS232 by default. If you need RS422, please contact the sales in advance!

The receiver built in two RJ45 network ports, the number is 1-2. You can directly connect the switch console 422 network port signal to the receiver 422 network port.

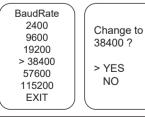


Connect the transmitter 422 port to the network port of the PTZ camera via the 422 to network cable from the accessories, you can realize the 422 transparent transmission.

According to the different PTZ cameras has the different serial port baud rate, you can refer to the next chapter to set the serial baud rate.

14. How to switch the 422 serial port baud rate to adapt to different PTZ control commands

When the transmitter OLED show the initial menu, press the M button to switch to the BaudRate page, press the W button to select the serial port baud rate you need, press the C button to confirm.



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15. Troubleshooting

Problems	Solutions
If there is mosaic and lag	 a) Please place the transmitter and the receiver at a height of 1.5-2 meters above the ground. b) Please arrange the antennas to be fan-shaped, and each has a clear line of sight. c) If the surrounding wireless environment is too complex or you need to the system go through more walls, You can try to set the "Video Quality" to "LOW" to reduce the bitstream and ensure the system works smoothly. When multiple transmitters are working at the same time, please make sure that the distance between each transmitter is at least 2 meters. d) If there is still mosaic or lag, you can try to switch frequency.
If there is frame loss and image tail	Check the software version after changing the latency configuration, and contact technical personnel to confirm. If the software version is too low, you need to upgrade it.
The transmitter and receiver are unable to establish a connection	a) After switching frequency, restart the transmitter and receiver; b) Try to re-bind.
In one-to-one mode, the intercom system host can't hear anything	 a) Check if it is in one-to-one mode; b) b)Re-press the ALL button, then press the number button you want to call; c) Check if the headset plug well; d) Check if the headset is broken, take another headset to plug.

16. Attentions

1. First, connect the transmitter to the video source with HDMI or SDI cable, then connect the receiver to the monitor. finally turn on the device.

2. If the receiver output is black screen after switching the video source resolution, please re-plug the HDMI/SDI cable of the transmitter or receiver. If the system cannot work normally after re-plug the HDMI/SDI cable, please power off and restart the transmitter and receiver.

3. When the transmitter and receiver cannot connect for a long time after switching frequency, please power off and restart the transmitter and receiver.

4. If bind fails, you can try to rebind. First set the transmitter in bind and then the receiver.

5. When the TX and RX connect normally, there is no output on the monitor or only OSD output no normal video output, please re-plug the HDMI/SDI cable connected to the receiver and check if the monitor is standby. When the above operation still cannot output normally, please try to replace the monitor.

6. If the video is stuck or mosaic when using the system, it is usually caused by network interference. Please try to switch the system frequency to avoid the interference. For frequency switch operations, refer to chapter 9. 7.Please install the antennas before powering on the system. Otherwise, it may cause damage to the system.

8. This product's video signal can go through the wall. However, if you need to go through too many and too thick walls, it will affect the use effect. You can consider using LOW video quality options to increase the penetration ability.

9. When using the system, the surrounding environment may affect the wireless transmission quality. The poor wireless environment may lead to video and sound distortion, such as video pause, noise and so on. So please pay attention:

· Walls, large sheets of metal, and various instruments that affect wireless transmission.

- Try to avoid using this system in these environments.
- Using this system in crowded areas, please place the transmitter and the receiver at a height of 1.5-2 meters above the ground.
- If there are 5GHz wireless devices working nearby, these may also cause interference to the system. You can switch to a different frequency manually in this case.

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IRESSAU

Instruction Manual for Dragon Fire Series VLD-3000T (with intercom) 2-channel full function video transmission system

- Please do not put this system in a metal container, because it will affect wireless transmission. If it is unavoidable, please ensure that each antenna has a clear line of sight.
- The transmitter and receiver are located at a height of 1.5-2 meters above the ground, please arrange the antennas to be fan-shaped, and ensure each has a clear line of sight.

FrSky is continuously adding features and improvements to our products. To get the most from your product, please check the download section of the FrSky website www.frsky-rc.com for the latest update firmware and manuals

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