



Wireless HD Video Transmission Kit

User Manual

Model: LM-VT800

Version:1.0

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INTERFACE INFORMATION

TX

1. MODE Button

No.	item	Parameter		Remark
	MODE Button (SW2)	3S long press	Frequency witching	
		6S long press	Switch RTSP and point-to-point mode	

2. CH Button

No.	item	Parameter		Remark
	CH Button (SW1)	3S long press	Frequency witching	Valid only after connected with RX

3. OK Button

No.	item	Parameter	Remark
	OK Button	6S long press, WPS pairing	

4. OLED Screen

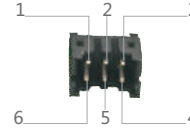
No.	item	Parameter	Remark
	1. Signal Icon	network connections	
	2. Frequency Icon	Indicates current working frequency	

5. Tally out: Output 5V power supply

6. Audio in

No.	item	Parameter	Remark
	Audio in	External audio input and video source audio option, Can not be superimposed on the audio, use the function keys to switch	

7. RS232



No.	item	Parameter	Remark
1	NC	NC	
2	P12V	Default set with out (reserved for 12V voltage output)	
3	NC	NC	
4	TXD	Data transmit TX	
5	GND	GND	
6	RXD	Data receive RX	

8. HDMI IN

No.	item	Parameter	Remark
	HDMI IN	HD Video input	

9. SDI LOOP OUT: SDI Loop output

10. SDI IN

No.	item	Parameter	Remark
	SDI IN	Video source input, if SDI and HDMI are input at the same time, priority SDI input , if not input at the same time, which one is first input, which one is preferred.	

11. DC IN: input power supply 12V/2A

12. LAN: External network port

RX

1. MODE Button

No.	item	Parameter		Remark
	MODE Button	6S long press	Switch RTSP and point-to-point mode	

2. CH Button

No.	item	Parameter		Remark
	CH Button	3S long press	Frequency witching	

3. OK Button

No.	item	Parameter		Remark
	OK Button	6S long press, WPS pairing		

4. OLED Screen

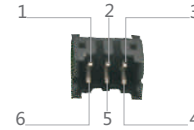
No.	item	Parameter		Remark
	1. Signal Icon	network connections		
	2. Frequency Icon	Indicates current working frequency		

5. Tally in: low level input is valid

6. Audio out

No.	item	Parameter		Remark
	Audio out	LINE OUT output and SDI/HDMI video source audio output at the same time		

7. RS232



No.	item	Parameter		Remark
1	NC	NC		
2	P12V	Default set with out (reserved for 12V voltage output)		
3	NC	NC		
4	TXD	Data transmit TX		
5	GND	GND		
6	RXD	Data receive RX		

8. HDMI OUT

No.	item	Parameter		Remark
	HDMI OUT	Both the HDMI and the two SDI outputs simultaneously		

9. SDI OUT

No.	item	Parameter		Remark
	SDI OUT	Video source output		

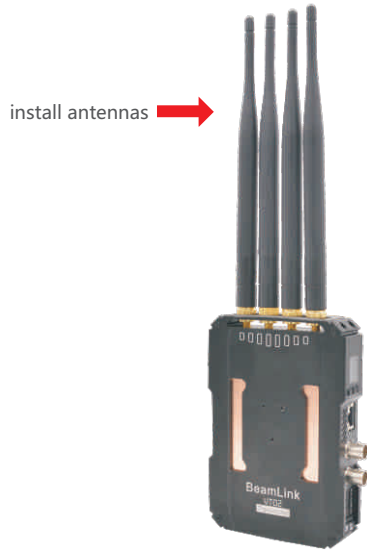
10. DC IN: input power supply 12V/2A

11. LAN: External network port

INSTALLATION INSTRUCTIONS

TX

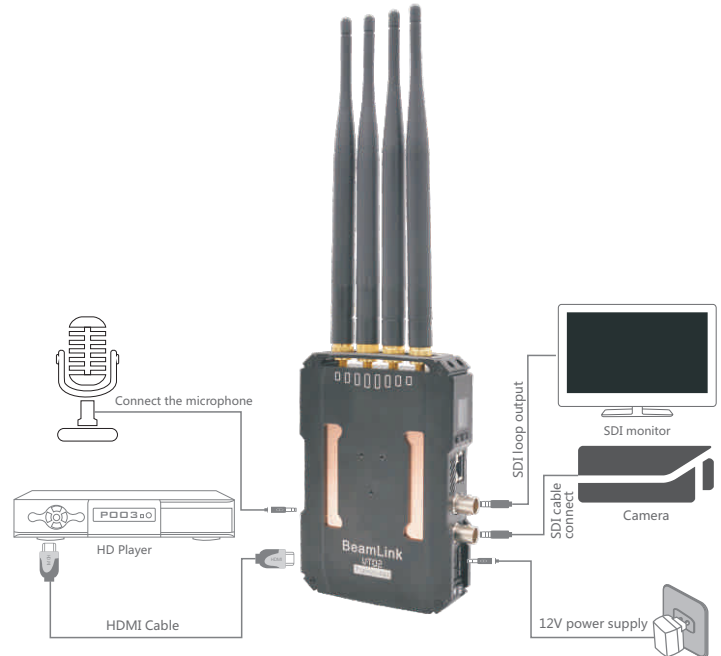
1. Install four 5dBi antennas on the transmitter



2. Connect transmitter to 12V Power-supply and turn on the power button, OLED screen lighted up, the Signal and Frequency icons display, Finished Starting-up)
4. For Transmitter inputs, either HDMI or SDI works, when the input is SDI source, the SDI loop output(for local monitoring) is enabled."VIDEO" icon will and only will display in OLED when a video input is properly connected.

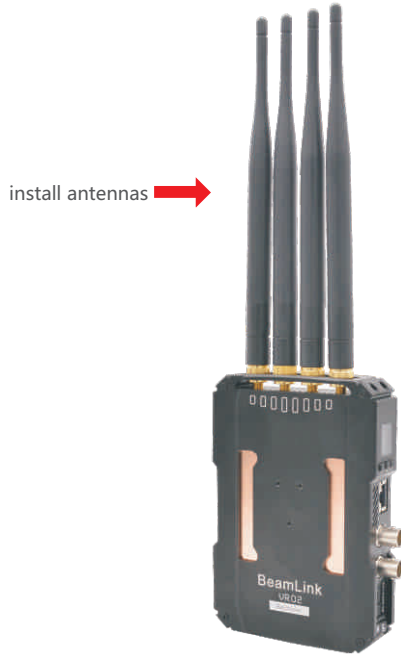
Note: When transmitter SDI output, the SDI output can only be used if SDI under loop output.

4. Audio input, transmitter connected to the microphone, (MODE key press 3S can switch the internal and external sound).



RX

1. Install four 5dBi antennas on the receiver



2. Connect transmitter to 12V Power-supply and turn on the power button, OLED screen lighted up, the Signal and Frequency icons display, Finished Starting-up)

3. For Receiver outputs, all HDMI/SDI interface can output synchronously.
The Signal icon shows as a "X" in OLED when network between Transmitter and Receiver disconnected or connecting; the Signal icon display properly when network connected. "VIDEO" icon will and only will display on OLED when the video works properly.

4. Audio output, receiver connected to the audio output.

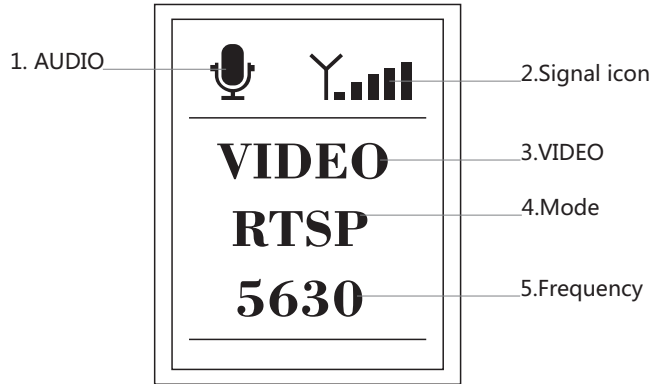


PRODUCT SPECIFICATIONS

TX	
Operating Frequency	5190MHz, 5230 MHz, 5270 MHz, 5310 MHz, 5510 MHz, 5550 MHz, 5590 MHz, 5630 MHz, 5670 MHz, 5755 MHz, 5795 Mhz
Antenna Mode	4*4 5dBi External antenna
Modulation Mode	OFDM
Transmission power	17dBm
EVM	≤-28dB
Receiving Sensitivity	≤-70dBm
Bandwidth	40MHz
Wireless Protocol	802.11n
Network encryption	WPA2/WPS
Network Mode	point-to-point private protocol, RTSP protocol
Transmission Distance	point-to-pointUp to 800m LOS,
Transmission Delay	50ms(min)
Transmission Rate	Max 300Mbps
Pairing Function	Support
Frequency Hopping	Manual
HDMI Protocol	Support HDMI 1.3
Video Resolution	1080p , 1080i , 720p , 576p , 576i , 480p , 480i (up to 1080P/60Hz)
Audio Format	PCM
Video Compression Format	H.264
External Audio	Support line-in audio input
IO port signal return	Support Tally signal return
Interface	Standard HDMI input*1, SDI port*2 (1 input, 1 Loop Through), 232 interface*1, DC 5.5 power supply input*1, CH button*1, MODE OLED*1, OK button*1, LINE IN*1 , RJ45 interface *1, Tally socket*1,
Operating Power Supply	DC12V / 2A (with Part 6677)
Power Supply Range	7-17V
Power Consumption	8-12W

RX	
Operating Frequency	5190MHz, 5230 MHz, 5270 MHz, 5310 MHz, 5510 MHz, 5550 MHz, 5590 MHz, 5630 MHz, 5670 MHz, 5755 MHz, 5795 Mhz
Antenna Mode	4*4 5dBi External antenna
Modulation Mode	OFDM
Transmission power	17dBm
EVM	≤-28dB
Receiving Sensitivity	≤-70dBm
Bandwidth	40MHz
Wireless Protocol	802.11n
Network encryption	WPA2/WPS
Network Mode	point-to-point private protocol
Transmission Distance	point-to-pointUp to 800m LOS,
Transmission Delay	50ms(min)
Transmission Rate	Max 300Mbps
Pairing Function	Support
Frequency Hopping	Manual
HDMI Protocol	Support HDMI 1.3
Video Resolution	1080p , 1080i , 720p , 576p , 576i , 480p , 480i (up to 1080P/60Hz)
Audio Format	PCM
Video Compression Format	H.264
External Audio	Support line-in audio input
IO port signal return	Support Tally signal return
Interface	Standard HDMI output*1, SDI output * 2 (2 channel simultaneous output), power supply input*1, CH button*1, 232 interface*1 MODE OLED *1, OK button*1,RJ45 interface *1, Tally socket*1,
Operating Power Supply	DC12V/2A
Power Supply Range	7-17V
Power Consumption	7-9W

OLED SCREEN



item	OLED Screen Description	Remark
Audio	Audio display, display of the headphone icon table, external audio input, (Blank) No Audio input	
Signal icon	Network connections	
Video	(Blank) No Video input (VIDEO) Video source connected successfully	
Mode	(Blank) Point to Point Transmitting (RTSP) Video RTSP Streaming	
Frequency	Indicates current working frequency	

OLED SCREEN DESCRIPTION

Model	Icon	Indication Contents	Status
TX	Signal icon	X	Connecting
		Signal bar	Network connection success
	VIDEO	(Blank)	No Video input
		VIDEO	Video source connected successfully
	Mode	RTSP	Video RTSP Streaming
		(Blank)	Point to Point Transmitting
Frequency	5----	Indicates current working frequency	

Model	Icon	Indication Contents	Status
RX	Signal icon	X	Connecting
		Signal bar	Network connection success
	VIDEO	(Blank)	No Video input
		VIDEO	Video source connected successfully
	Mode	RTSP	Video RTSP Streaming
		(Blank)	Point to Point Transmitting
Frequency	5----	Indicates current working frequency	

TROUBLE SHOOTING

Troubles & Possible Reasons:		Solutions:
OSD information on TV	Displaying "Link Connecting..." for long time	
	Transmitter is not electrified.	Power on transmitter.
	Transmitter or receiver is not placed erectly.	Place the TX or RX onto the base and replace them erectly.
	The transmitter and receiver are too far away.	Move the receiver closer to the transmitter.
	Several solid wall partition TX and RX.	Reduce the number of solid walls between TX and RX.
	There are too many obstacles between TX and RX.	Move the receiver closer to the transmitter.
	Haven't matched the code of TX and RX.	Rematch the code of transmitter and receiver.
	There is other transmitter which is under working condition near the receiver.	Power off other independent transmitter, place the receiver away from the other sources of interference.
	No Video Signal received	
	Transmitter and video source are not connected.	Connect the transmitter to video source by SDI/HDMI cable.
The video source is turned OFF.	Power ON the video source.	
Video source were NOT switched to SDI/HDMI output.	Switch the Video source to SDI/HDMI output.	
Bad contact of cable of transmitter	Remove and then re-plug the cable of transmitter	
Abnormal working of transmitter	Reboot the transmitter.	
Problem with cable between TX and video source	Change the SDI/HDMI cable.	
Player NOT support the output resolution format.	Switch the output video resolution to other modes.	
Image	No signal input to Receiver or TV/Monitor	
	Receiver is turned OFF.	Power on receiver.
	Receiver and TV are not connected.	Connect receiver to TV/Monitor via SDI/HDMI cable.
	TV/Monitor NOT switched to SDI/HDMI input.	Switch TV/Monitor to SDI/HDMI input.
	Bad contact of the cable of receiver or TV/monitor	Remove then re-plug the SDI/HDMI cable.
	TV/Monitor turn into standby mode	Switch the TV/Monitor to normal operation mode.
	Abnormal working of receiver.	Reboot the receiver.
	No image appear on TV/Monitor	
	Bad contact of receiver or cable.	Re-plug the cable of the receiver or TV/Monitor
	Abnormal working of receiver	Reboot the receiver
Receiver failure	Please contact your retailer	

Troubles & Possible Reasons:		Solutions:
Image	Video works but audio fails	
	Video input without audio	Restart transmitter
	The transmitter in external audio input mode	Switch the transmitter to embedded audio
	Network failure IP	
	IP is not on the same network segment	reset the PC and the transmitter at the same IP network segment.
	Lan cable is incompatible	change to a compatible lan cableTally
	Tally inoperation	
	The definition of electrical level of user's device is different from this product.	High-electrical Level is effective to this product.
	RS232 transmission	
	Unable to send and receive data	Pins definition should be exactly correct 9600Bd/s Baud rate default in 9600B/s

NOTICES DESCRIPTION XXXXXXXXXX

1. Please do not plug or unplug the HDMI cables on transmitter& receiver when the transmission kit are powered on during normally using transmission kits.
2. Please connect the transmitter with video source and the receiver with monitor/TV via HDMI cables before power on the transmission kit.
3. Please power off and reset the transmission kit when OSD indicates Pairing Failed. If still failed to connect after reset, please redo pairing.
4. Please remove and replug the HDMI cable on receiver/transmitter when failed to get video output(black screen) after changing video source resolution. If still failed to obtain video after this operation, please power off and reset the transmission kits.
5. Please power off and reset the kits if failed to connect for minutes after frequency channel switched.
6. Please replug the HDMI and check TV/Monitor is working or standby when transmission kits connected normally but failed to output right video. If failed to output after this operation, please try to change the display device.
7. Please switch frequency channel to avoid the jamming frequency when presented image lag or mosaic, because this might be arisen by frequency jamming. Switching Frequency operation, please refer to the instruction of frequency switching in this manual.