

LM-PRO300 Wireless HD Video Link System

A. Introduction

The Wireless HD Video Link System is designed to replace the current widely used cables in the live broadcasting and production environments. Cables always suffer from wiring hassles and sometimes just impossible to have cables. This Wireless HD Video Link System supports good wireless coverage, plug and play, industry standard power and video interfaces and will provide you state-of-art picture quality with very low latency in both indoor and outdoor applications.

B. Features

1. The Wireless HD Video Link System can be used in film production, live broadcasting as well as many other applications which requires good quality wireless video connections such as wedding and conferences.
2. 5GHz ISM Band Wireless HD Video Transmission
3. Supports multiple channel switching and broadcast mode for 1 transmitter to multiple receivers
4. Supports up to 1080p/60Hz resolution, HDMI/HD-SDI/3G-SDI 4:2:2, 10bits color depth
5. Uncompromised picture quality with very low latency <30ms
6. Effective Range:300m/1000ft (line of sight)
7. HDMI 1.3 with EDID support
8. Plug & Play - fully hardware design, no software is required
9. AES128/256 Encryption

C. Specification

ITEM	Specification
Frequency	5.1-5.9 (GHz) Subject to different RF regulations in different regions
Bandwidth	40MHz
Video Formats Supported	1080p 23.98/24/25/30/50/60 1080psf 23.98/24/25 1080i 50/59.94/60 720p 50/59.94/60 576p 576i 480p 480i
Audio Formats Supported	PCM, DTS-HD, Dolby TrueHD
Time Code	SMPTE-12M
Transmission range	>300m (Line of sight)
Transmitter	
Antenna	External Antenna X 2pcs
Transmission Power	20dBm
Functional Interface	HDMI input; SDI input; SDI Loop output; Mini USB; LEMO Power IN; Antenna RPSMA Socket, Power ON/OFF
Mounting Structure	1/4' Hot-shoe connection; V-Mount* Optional
LCD Display	Wireless Channel Info; SDI/ HDMI Signal Info
Working Voltage	6V-17V
Power Consumption	12W
Dimensions	119x79x32 mm
Temperature	-10~60°C (Operating); -40~80 °C (Storage)
Receiver	
Antenna	External Antenna X 5pcs
Receiving Sensitivity	-70dBm
Functional Interface	SDI Dual output; HDMI output; Mini USB; LEMO Power IN; Antenna RPSMA Socket, Power ON/OFF
Locating Structure	1/4 Hot-shoe connection; V-Mount* Optional
LCD Display	Wireless Channel Info; SDI/ HDMI Signal Info
Working Voltage	6V~17V
Power Consumption	7~8W
Dimensions	155x111x32mm
Temperature	-10~60°C (Operating); -40~80 °C (Storage)

D. Panel Description

TX



- 1 LCD Display
- 2 Channel Select Botton
- 3 HDMI/SDI Button
- 4 OK Button for confirmation

- 5 Power Supply IN (Lemo)
- 6 HDMI IN
- 7 SDI OUT(Loop)
- 8 SDI IN



- 9 Antenna Connectors
- 10 V-Mount connection
- 11 1/4" Hot-shoe Connection
- 11 1/4" Hot-shoe Connection

- 12 Power ON/OFF
- 13 MINI USB

Structure		
1	LCD Display	Displays information of channel, input selection, signal status and battery capacity
2	Channel Selection	Select the correct Channel
3	HDMI/SDI Input Switch	Switch HDMI or SDI Signal as the signal sources
4	OK for Confirmation	Confirm the selection
5	Power Supply In (Lemo)* Support 6-17V	Support connecting to the power supply of the camera, or power adaptor. Notice: Be aware of polarity before applies to power supply!
6	HDMI In	Connect to the HD Digital Camcorder with HDMI Input

7	SDI Out (Loop)	Connect to the HD Digital Monitor which support 3G-SDI, HD-SDI
8	SDI Input	Connect to the video source which supports 3G-SDI, HD-SDI
9	Antenna Connectors	SMA Connectors for antennas
10	V-Mount Connection * Optional	Supports V-Mount Connection
11	1/4 Hot-shoe Connection	Supports Hot-shoe mounting
12	Power ON/OFF	Power ON/OFF
13	Mini USB	For System Upgrading

RX



- ① LCD Display
- ② Channel Button
- ③ HDMI/SDI Button
- ④ OK Button for Confirmation

- ⑤ SDI OUT
- ⑥ HDMI OUT



Structure		
1	LCD Display	Displays information of channel, input selection, signal status and battery capacity
2	Channel Selection	Select the correct Channel
3	HDMI/SDI Input Switch	Switch HDMI or SDI Signal as the signal sources
4	OK for Confirmation	Confirm the selection
5	SDI Out (Loop)	Connect to the HD Digital Monitor which support 3G-SDI, HD-SDI
6	HDMI Output	Connect to the HD Display TV/Monitor with HDMI IN
7	Antenna Connectors	SMA Connectors for

		antennas
8	V-Mount Connection * Optional	Supports V-Mount Connection
9, 10	1/4 Hot-shoe Connection	Supports Hot-shoe mounting
11	Mini USB	For System Upgrading
12	Power Supply In (Lemo)* Support 6-17V	Support connection to the power supply of the camera, or power adaptor. Notice: Be aware of polarity before applies to power supply!
13	Power ON/OFF	Power ON/OFF

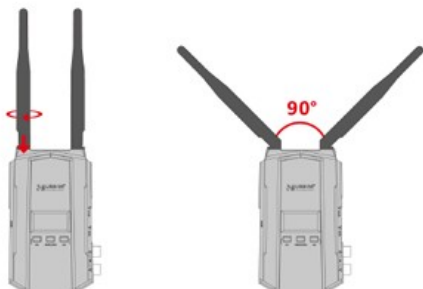
E. Packing Contents

1. 1 unit transmitter and receiver
2. External Antenna x 7pcs (2 for TX and 5 for RX)
3. 2pcs Power Cable(2-pin LEMO to BTap)
4. 2pcs DC Adapter 12V 2A Lemo 2-pin (Optional)
5. V-Mount x2 (Optional)
6. HDMI Cable x1
7. 1pcs user manual
8. 300*250*120mm carton packing

F. Connection and Operating

For transmitter

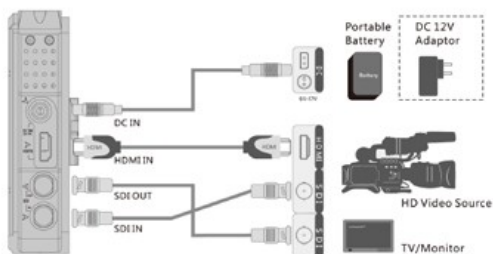
1. Fix the antennas to the transmitter, and arrange them to be right angle as figured below.



3. Turn ON the power supply and make sure the transmitter start to work.



2. Connect the transmitter to the power supply.
Connect the SDI/HDMI cable to the Video Source.

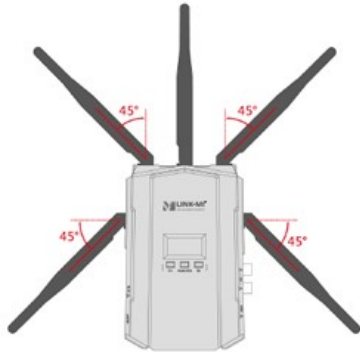


4. Press the "CH" button to select the wireless channel that corresponding to the Receiver, then press the "OK" button to confirm. When the video is transferred, the LCD Screen will display "VIDEO" ; When the Networking is connected, the LCD Screen will display "LINK" .

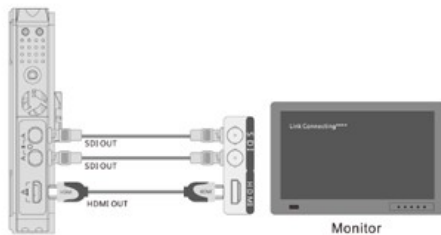


For Receiver

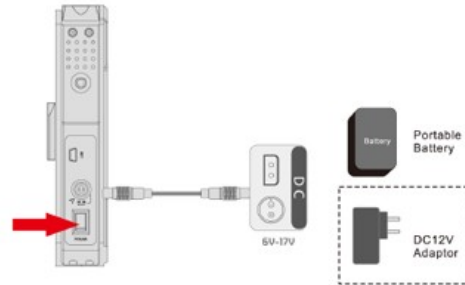
1. Fix on the antennas to the receiver, and arrange them to be right angle as figured below.



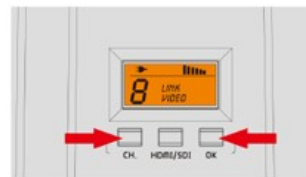
2. Connect the receiver to the power supply via the certain power cable. Connect the SDI/HDMI cable to the TV/Monitor.



3. Turn ON the power supply and make sure the receiver start to work.



4. Press the "CH" button to select the wireless channel that corresponding to the Transmitter, then press the "OK" button to confirm. When the video is transferred, the LCD Screen will display "LINK". Then the screen of TV/Monitor will display simultaneously from the video source.



G. Connection Diagram

— HDMI Cable
— SDI Cable

