

# **300M wireless video transmission system supporting HDMI & SDI (HLWH003B)**

## **Product model and standard**

HLWH003B Long Range Wireless HDMI/SDI Transmission Suite utilize today's most advanced wireless video transmission technology, which can realize the broadcast-class and uncompressed 3G SDI/HDMI HD video signal transmitted with no compression and zero delay. The suite includes one transmitter and one receiver, where the transmitter provides a 3G/HD SDI input and a HDMI input, and the receiver also provides a 3G/HD SDI output and a HDMI output. The wireless HD suite has 2 stick antennas in transmitter side, and 5 stick antennas in receiver side, and it can work in 5.1-5.9GHz frequency band and be flexibly software configured to licensed or ISM band of global different regions, as well as the side panel of both transmitter and receiver have been installed a frequency select knob, which provides maximum 10 workable frequency channels, and supports maximum 4 sets working simultaneously. The wireless suite can accept wide range DC power input, which is suitable for many kinds of camera battery model. The suite also can sustain  $\pm 8$  kV ESD (HBM, contact discharge), the industry class metal case and professional heat design would guarantee most robust reliability.

## **Main features**

- HDMI 1.3 spec supports
- HDMI and 3G SDI input and output
- Highest resolution 1080p 60, no delay and no compression
- Support audio formats include Dolby True HD, DTS-master, etc.
- AES-128 encryption with air interface HD video data stream
- Support point to point, and point to multi points network topology
- Each RX paired to the unique TX in factory,
- 5GHz ISM frequency band, maximum 10 frequency channels selected by user knob, coexist

with WIFI.

- Maximum transmission distance 300m
- Signal indicators for wireless power status, Video status and receiver RSSI
- Wide range power voltage input, adapt most kinds of camera battery
- Optional Sony F970 battery buckle, convenient for field battery install and replacement
- Any input and output ports with  $\pm 8$  kV ESD protection level (HBM, contact discharge)
- Industrial metal case, stable and reliable

**Parameters:**

	Transmitter	Receiver
<b>Interface</b>	SDI Input ( BNC Female ) ; HDMI Input(Type A female); 2 Antenna port(2 SMA male ) ; DC input (4 pin LEMO female)	SDI Output ( BNC Female ) ; HDMI Output(Type A female); 5 Antenna port(SMA male ) ; DC input (4 pin LEMO female)
<b>Supply voltage range</b>	6.5-16.8V DC	6.5-16.8V DC
<b>Power consumption</b>	<6.5W	< 6 W
<b>Size</b>	(L x W x H): 120x 70 x 25mm, don't include antennas	(L x W x H): 160x 110 x 25mm, don't include antennas
<b>Mass</b>	380g	540g
<b>Input Video Format</b>	HDMI : 525i, 625i, 720p 50/59.94/60,1080i 50/59.94/60,1080p23.98/24/25/29.9/30/50/59.94/60 ; HDMI Type A SDI : 3G, HD, and SD-SDI (auto-selected), SMPTE-259/274/292/296/372/4 24/425; 1x BNC	/
<b>Output Video Format</b>	/	HDMI : 525i, 625i, 720p 50/59.94/60,1080i

		50/59.94/60,1080p23.98/24/25/ 29.9/30/50/59.94/60 ; HDMI Type A SDI : 3G, HD, and SD-SDI (auto-selected), SMPTE-259/274/292/296/372/4 24/425; 1x BNC
<b>Input Audio Format</b>	SDI embedded 4 channel 24 bit/48KHz	/
<b>Output Audio</b>	/	SDI embedded 4 channel 24 bit/48KHz
<b>Signal Indicator</b>	POWER-Green; VIDEO-Yellow	POWER-Green ; Wireless RSSI-Green(5 LEDs) ; VIDEO-Yellow
<b>Frequency Band</b>	5.1-5.9GHz , configurable with China, North American, Europe, etc	5.1-5.9GHz , configurable with China, North American, Europe, etc
<b>Modulation Mode</b>	OFDM 16QAM	OFDM 16QAM
<b>Transmission Power</b>	Maximum 21dBm	/
<b>Receiver Sensitivity</b>	/	-75dBm
<b>Occupied Bandwidth</b>	20/40MHz	20/40MHz
<b>Temperature Range</b>	0 ~ 40°C (operating condition); -20~60°C(Storage)	0 ~ 40°C (operating condition); -20~60°C(Storage)
<b>Compliance</b>	FCC; CE.	FCC; CE.

**Packing list:**

- 1 unit transmitter
- 1 unit receiver
- 7 5GHz Omni-directional and high efficiency antennas (SMA female)
- 2 DC convert cable (LEMO 4 pin-male to D-Type receptacle)

- 1 user manual, 2 torx screwdriver, 1 1/4-20 screw to ISO518 hot-shoe converter.
- SONY NP-F970/Panasonic D28s/Canon 5D2 battery buckle (Optional)
- 350\*250\*50mm carton packing

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Phone: 0415 468 731, Email: [sales@ultralinks.com.au](mailto:sales@ultralinks.com.au)  
Suite 1A Level 2, 802 Pacific Highway, Gordon NSW 2072  
[www.ultralinks.com.au](http://www.ultralinks.com.au)