

• Important Safety Notice

Please read below safety instructions carefully before installation and operation:

1. Please pay attention to all the warnings and hints on this device.
2. Do not expose this unit to rain, moisture and liquid.
3. Do not put any stuff into the device.
4. Do not repair the device or open the enclosure without professional person guidance to avoid electronic shock.
5. Make sure good ventilation openings to avoid product overheating damage.
6. Shut off power and make sure environment is safe before installation.
7. Do not plug-in/out the network cables and IR cables when it is in using to avoid cables damage.
8. Use DC5V/2A only. Make sure the specification matched if using 3rd party DC adapters.

• Introduction

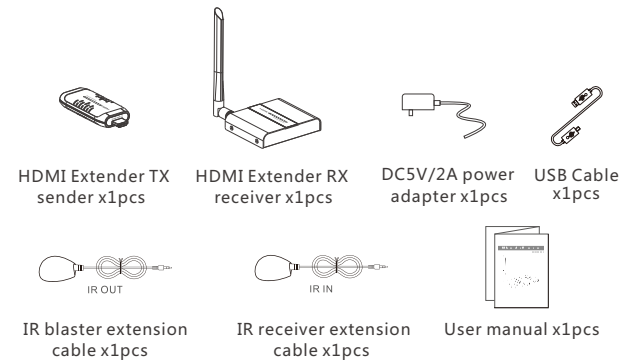
This HDMI wireless extender includes transmitter unit and receiver unit, allows to transmit and extend HDMI signal up to 50 meters long away wirelessly, it has strong anti-interference ability by running at 5GHz operation frequency, and supports point to point connection. IR passback with 20-60KHz frequency helps to remote control the source device from the receiver side. It is really a very good solution for meeting, conference, home entertainment and multi-media education etc.

- Note:
- 1) Transmission distance will be different due to the environment.
 - 2) Wall, brick or glass will shorten the signal cover range or cause big signal loss.

• Features

1. Support HDMI1.3, compatible with HDCP1.2.
2. Highest resolution up to 1080p full HD.
3. Strong anti-interference ability by running at 5GHz operation frequency .
4. Support point to point wireless configuration.
5. Support IR passback with 20-60KHz frequency.
6. 50 meters long range transmission distance.
7. Plug and play, easy installation.

• Package Contents



• Installation Requirement

- 1.HDMI source device like DVD, PS3, Set top box with HDMI port
2. HDMI display device like SDTV, HDTV, and projector with HDMI port.
- 3.Not suggest HDMI Extender TX sender used PC with HDMI source port.

• Panel Description

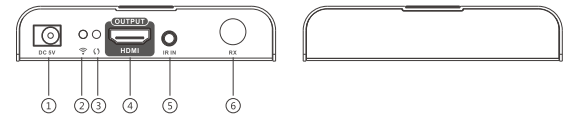
1. HDMI Extender TX sender



① HDMI input	Connect with HDMI source device
② Connections indicator	LED indicator keep on when HDMI signal input, blink when data is transmitted
③ Power input	Connect with USB power cable
④ Power indicator	LED indicator turn on when power on
⑤ IR blaster extension cable interface	Connect with IR blaster extension cable. Please put the IR blaster close to source device to best transmit the IR signal from receiver

[NOTE] This device can be powered from the HDMI source device (which with USB port) directly. However, when the transmission/connection is not stable, or the output is not fluent, please connect a 5V plug (with USB port) to the USB cable for power supply.

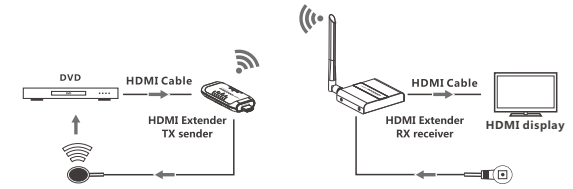
2. HDMI extender RX receiver



① Power input	Connect with DC5V/2A power adapter
② Wireless connections indicator	It's on when the transmitter and the receiver connect well with each other, otherwise, it's off

③ Data transmission indicator	Led blinks slowly when it is building connection. Led blinks fast when it is successfully connected and transmitting data
④ HDMI output	Connect with HDMI display device
⑤ IR receiver extension cable interface	Connect with IR receiver extension cable. Please make sure the remote control is within the required range of IR receiver
⑥ Antenna	Receive wireless signal

• Connection



Connection instruction:

- 1) Connect HDMI input to HDMI source device and connect IR blaster extension cable to IR OUT interface of the sender (TX).
- 2) Connect HDMI output to HDMI display device and connect IR receiver extension cable to IR IN interface.
- 3) Power on the device (power led lights) and it works.

Note:

- 1) When the wireless signal transmits through wall, glass or other obstacles, it will cause signal loss. Please install this device in good environment with few obstacles.
- 2) The external environment wireless signal will affect transmission, such as micro waver, wireless mouse and keyboard etc.

• FAQ

Q: Transmitter and receiver can't be connected with each other?

- A: 1) Please check if the wireless connection light on product blinks properly.
2) Restart the transmitter or receiver.
3) Reconnect the HDMI cable.

Q: The wifi LED indicator of the transmitter is off, but no signal output on display/monitor?

- A: 1) please check if there is an HDMI signal input of sender TX
2) Try to connect the signal source directly to display device to see if there is signal output from source device or change the signal source, HDMI cables and try again.

Q: Display not fluent and stable

- A: 1) Please move the position of sender (TX) and receiver (RX) and make sure the device is within the signal coverage.
2) Restart the transmitter or receiver.
3) Reconnect the HDMI cable.
4) Remove other wireless signal disturbance and reduce the obstacle on the way.

• Specification

Items	Specification	
Power Supply	Voltage/Current	TX:DC5V/1A RX:DC5V/2A
	Power consumption	TX < 3 W RX < 5 W
HDMI Performance And Interface	HDMI compliance	HDMI1.3
	HDCP compliance	HDCP1.2
	HDMI resolution supported	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz

IR performance and interface	IR remote control	Support IR passback with 20-60KHz frequency
HDMI performance and interface	Audio formats Supported	L/R stereo audio
	Maximum transfer rate	10.2Gbps
	Input and output TMDS signal	0.7~1.5Vp-p(TMDS)
	Input and output DDC signal	5Vp-p(TTL)
Wireless performance and interface	Input cable length supported	≤5m(AWG26 HDMI1.3cable standard)
	Output cable length supported	≤5m(AWG26 HDMI1.3cable standard)
Protection level	Frequency Range	5180-5240.00MHz/5745-5825MHz
	Bandwidth	20MHz
	Modulation Technology	IEEE 802.11ac:OFDM
Operating Environment	Electrostatic protection of the whole machine	1a Contact discharge level 3 1b Air discharge level 3 Standard: IEC61000-4-2
	Working temperature	0~40°C
Body properties	Storage temperature	-20~70°C
	Humidity (no condensation)	0~90%
	Dimension	TX: 88.90(W) x 38.99(D) x 15.17(H)mm RX: 131.65(W) x 95(D) x 19.90(H)mm
Reliability	Material	TX: Plastic RX: Iron alloy material + crystal panel
	Finishing	Grit blast
	Color	Black
	Weight	TX : 30g , RX : 220g
Mean time between failures (MTBF)	Mean time between failures (MTBF)	> 30000 Hours

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- o Reorient or relocate the receiving antenna.
- o Increase the separation between the equipment and receiver.
- o Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- o Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

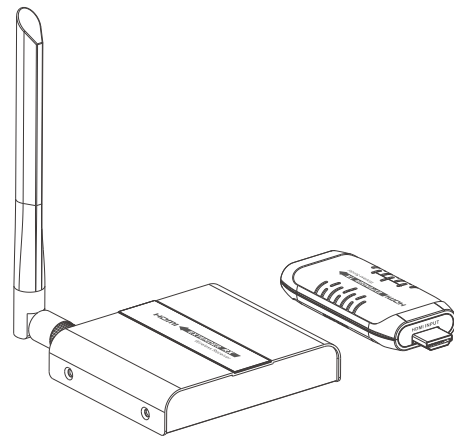
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Disclaimer

The product name and brand name may be registered trademark of related manufacturers. TM and ® may be omitted on the user manual. The pictures on the user manual are just for reference, and there may be some slight difference with the real products. We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

Wireless Extender

User manual



LKV388Dongle