

KanexPro®



100M Wireless HDMI Extender

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MPN: EXT-18GHDMIWL

VER 1.0

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

Table of Contents

1. Introduction.....	3
2. Features.....	3
3. Package Contents.....	3
4. Specifications.....	4
5. Operation Controls and Functions.....	5
5.1 Transmitter Panel.....	5
5.2 Receiver Panel.....	5
5.3 Pairing Instruction.....	6
5.4 Updating Instruction.....	6
5.5 5.5 IR Pin Definition.....	6
6. Application Example.....	7
7. Customer Service.....	8

1. Introduction

The KanexPro EXT-18GHDMIWL 100M Wireless extender is a compact HDMI transmitter - receiver set designed to extend HD (1080p) video signals from a source to a display which can be remotely located up to 328 feet away. This wireless system is based on powerful low-bandwidth H.265 compression reducing the latency and signal dropouts. The system is simple, plug and play and it's ready to go. No drivers or complicated installation procedures required.

Wireless extenders offer a convenient and elegant solution to delivering long distance HDMI transmissions without the hassle of running thick unwieldy HDMI cables through walls and furniture. Ideal for use with TV carts.

2. Features

- HDMI 1.3, HDCP 1.4 and DVI 1.0 compliant
- Supports one HDMI HD source to one HDMI HD display via wireless transmission
- With one-way IR control
- Video resolution up to 1080P@60Hz
- Transmission distance: One-to-one connects transmission distance up to 330ft/100m. (An open environment without Wi-Fi interference.)
- Audio format supports PCM 2.0CH 32KHz/44.1KHz/48KHz
- H.265 high performance codec supported, adopting high bit rate mode
- End-to-end delays under 120Ms
- Compact design for easy and flexible installation.

3. Package Contents

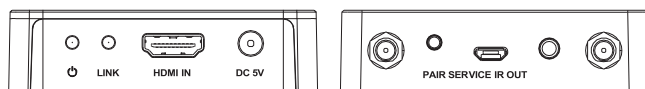
- 5. 1x HDMI Wireless Extender (Transmitter)
- 5. 1x HDMI Wireless Extender (Receiver)
- 5. 1x IR Blaster cable (1.5 meters)
- 5. 1x 20~60KHz IR Receiver cable (1.5 meters)
- 5. 4x 5G WiFi Antennas
- 5. 1x 5V/1A Power Adapters
- 5. 1x User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 1.3
HDCP Compliance	HDCP 1.4
Video Bandwidth	6.75Gbps
Video Resolution	1080p, 1080i, 720p, 720i, 480p, 480i, the maximum up to 1920x1080@60Hz The PC resolution is up to 1920x1200@60Hz
Color Space	RGB/YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0
Color Depth	8/10/12-bit
HDMI Audio Formats	PCM 2.0CH 32KHz/44.1KHz/48KHz
ESD Protection	Human body model – 38kV (Air-gap discharge) & 34kV (Contact discharge)
Connections	
Transmitter	Inputs: 1x HDMI Type A [19-pin female] 1x SERVICE [Micro USB, Update port] Outputs: 1x IR OUT [3.5mm Stereo Mini-jack] 2x WiFi OUT [WiFi antenna]
Receiver	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] 2x WiFi IN [WiFi antenna] 1x SERVICE [Micro USB, Update port] Outputs: 1x HDMI Type A [19-pin female]
Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 76mm [W] x 98mm [D] x 21mm [H]
Weight	Transmitter / Receiver: 100g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/1A
Power Consumption	Transmitter: 2.25W, Receiver: 1.8W
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)
Resolution / Cable Length	1080P60Hz - Feet / Meters
HDMI IN / OUT	42ft / 15M
The use of “Premium High-Speed HDMI” cable is highly recommended.	

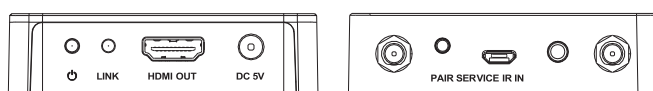
5. Operation Controls and Functions

5.1 Transmitter Panel



Name	Function description
Power LED	Red LED indicates that the encoder is powered.
LINK LED (Green)	<ul style="list-style-type: none"> ■ Illuminate: Pair success. ■ Flicker quickly: The encoder is pairing. ■ Flicker slowly: The encoder and decoder are transmitting video signal. ■ Off: No pair or paired success but no signal transmission.
HDMI IN	HDMI source input.
DC 5V	DC 5V for 5V 1A power adapter.
Antenna port	Connect to WiFi antenna.
PAIR button	<ul style="list-style-type: none"> ■ Press quickly the button will reset the encoder to factory default status. ■ Press the button simultaneously both encoder and decoder for 3 seconds will pair.
SERVICE port	Firmware update port.
IR OUT	IR port output for control of the source device.
Antenna port	Connect to WiFi antenna.

5.2 Receiver Panel



Name	Function description
Power LED	Red LED indicates that the decoder is powered.
LINK LED (Green)	<ul style="list-style-type: none"> ■ Illuminute: Pair success. ■ Flicker quickly: The decoder is pairing. ■ Flicker slowly: The encoder and decoder are transmitting video signal. ■ Off: No pair or paired success but no signal transmission.
HDMI OUT	HDMI output for display.
DC 5V	DC 5V for 5V 1A power adapter.
Antenna port	Connect to WiFi antenna.
PAIR button	<ul style="list-style-type: none"> ■ Press quickly the button will copy the EDID of display device to source device. ■ Press the button simultaneously both encoder and decoder for 3 seconds will pair.
SERVICE port	Firmware update port.
IR IN	IR port input to receiving the signal of IR remote.
Antenna port	Connect to WiFi antenna.

5.3 Pairing Instruction

Power on the transmitter and receiver then press simultaneously the **PAIR** button for three seconds, and the **LINK LEDs** will flicker quickly. If the LINK LEDs change from flicker quickly to indicate that means pair success. Then let go of your hands and the LINK LEDs are off. When the transmitter and receiver have signal transmission then the LINK LEDs will flicker slowly.

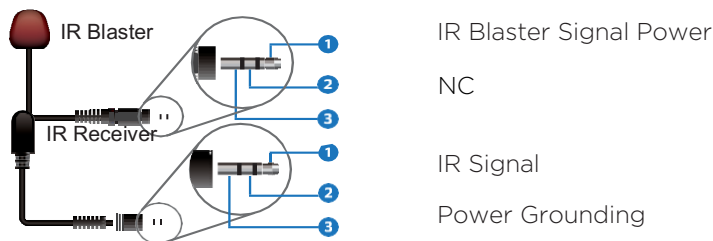
LINK LED status (Green)	Description
Flicker quickly	Establish pairing.
Illuminate	Paired success.
Off	No pair or paired success but no signal transmission.
Flicker slowly	Transmitting video signal.

5.4 Updating Instruction

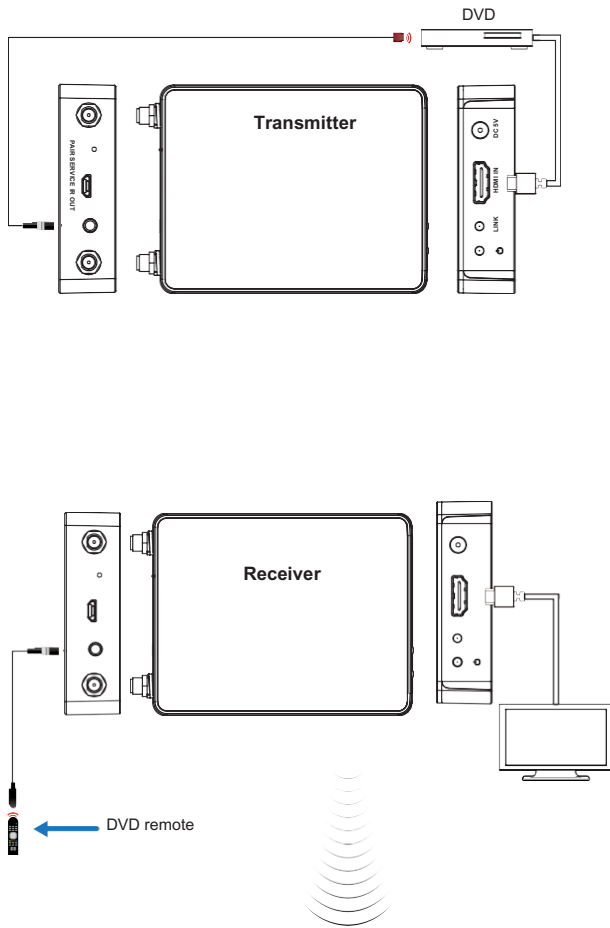
The update file needs to change the name for update bin then put in the root directory of U disk. The unit is power off status and inserts the U disk to SERVICE port. Hold down the PAIR button and power on the unit simultaneously. The LINK LED indicates when the unit is updating then let go of your hand. If the update has finished, the LINK LED will automatically off.

5.5 IR Pin Definition

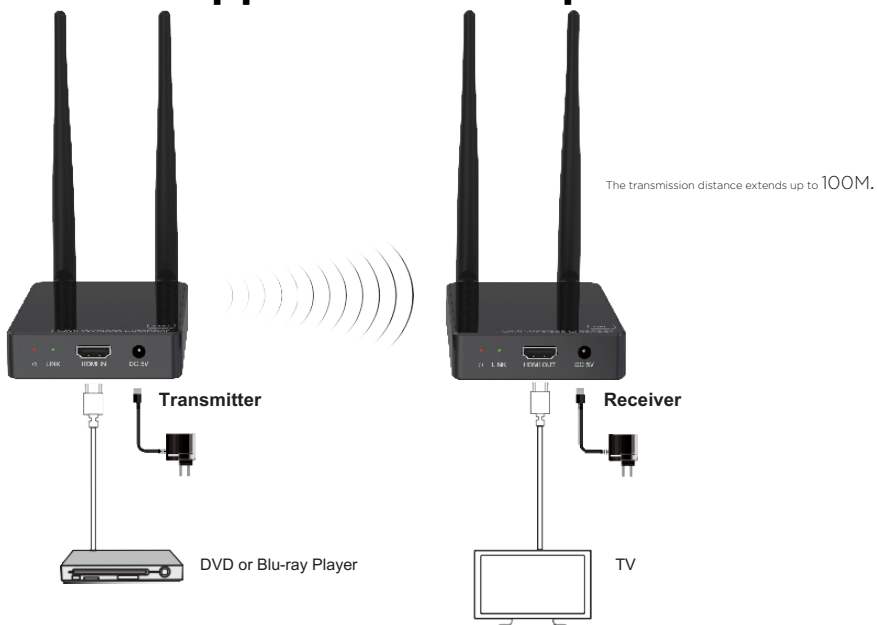
IR Receiver and Blaster pin's definition as below:



The following is IR system diagram about IR cable use method.



7. Application Example



7. Customer Service

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. These terms and conditions may be changed without prior notice.

① Warranty

The limited warranty period of the product is fixed 3 (three) years.

② Scope

These terms and conditions of Customer Service apply to the customer service provided for the products or any other items sold by authorized distributor only.

③ Warranty Exclusions:

Warranty expiration.

Factory applied serial number has been altered or removed from the product. Damage, deterioration or malfunction caused by:

- ✓ Normal wear and tear.
 - ✓ Use of supplies or parts not meeting our specifications.
 - ✓ No certificate or invoice as the proof of warranty.
 - ✓ The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
 - ✓ Damage caused by force majeure.
 - ✓ Servicing not authorized by distributor.
 - ✓ Any other causes which does not relate to a product defect.
- Shipping fees, installation or labor charges for installation or setup of the product.

④ Documentation:

Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defect has been clearly defined, and upon reception of the documents or copy of invoice, indicating the date of purchase, the type of product, the serial number, and the name of distributor.

Remarks: For further assistance or solutions, please contact your local distributor.