



**AC7870**  
**4K HDMI extender set**

**en**

Manual

# AC7870 4K HDMI extender kit

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## 1.0 Introduction

Congratulations with the purchase of this high-quality ACT product! This product has undergone extensive testing by ACT's technical experts. Should you experience any problems with this product, you are covered by ACT warranty. Please keep this manual and the receipt in a safe place.

*Register your product now on [www.act-connectivity.com](http://www.act-connectivity.com) and receive product updates!*

### 1.1 Packing contents

The following parts need to be present in the packing:

- 4K HDMI extender transmitter unit
- 4K HDMI extender receiver unit
- Power adapter: 2x 5.0V 2.0A
- Mounting kit: Screws, plugs and mounting tape

### 1.2 Features

- Extends 4K UHD HDMI signal over one CAT5e cable.
- Support resolution up to 1080P@60hz, 4K@30hz 4:4:4.
- HDCP 1.4 compliant.
- Audio support up to LPCM 2.0.
- Transmission range up to 100M over CAT5e.
- Suitable with use for chainable receiver ( AC7871 sold separately) for longer distance and multiple displays. Chainable up to 250 displays, with a max distance of 2.5KM max.
- Plug and play

## 2.0 Panel descriptions

Front Panel Transmitter unit



RJ45	Green LED = CAT5e linked
RJ45	Yellow LED = Data transmission

Back panel Transmitter unit



Link	Green LED = Power on/off
Link	Blue LED = TX/RX linked
Power	DC 5.0V 2.0A

Front panel Receiver unit



EDID	Function
Press and hold 2 seconds	Copy receiver monitor EDID to transmitter.
RJ45	Green LED = CAT5e linked
RJ45	Yellow LED = Data transmission

Back panel Receiver unit



Link	Green LED = Power on/off
Link	Blue LED = TX/RX linked
Power	DC 5.0V 2.0A

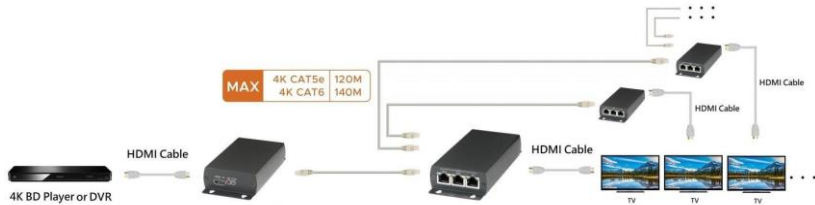
### 3.0 Installation diagram:

*Please note that the ( chainable ) receiver unit cannot work standalone and always need the transmitter unit.*

#### Point to Point application



#### One to Multiple Display application By Daisy chain ( AC7871 chainable receiver sold seperately)



## 4.0 Technical specifications

Connections	RJ45, HDMI
Connections (in)	RJ45, HDMI A (full-size) female (x1)
Connections (out)	RJ45, HDMI A (full-size) female (x1)
Max. extension distance	100m
Data transmission	Zero latency, Real time transmission
Extension over	CATx
Extension cable	CAT5e
Video signal	HDMI
HDMI specification	HDMI High Speed
Max. resolution @ 60Hz	1920 x 1080
Max. resolution @ 30Hz	3840 x 2160 4:4:4
Video support	HDCP 1.4, EDID
Audio support	LPCM 2.0ch Stereo
Power supply x 2 included	Input: 100-240V~50/60Hz 0,5A Output: 5.0V 2.0A
Including mounting kit	Screws, plugs, mounting tape
Dimensions in mm ( W x H x D )	88 x 30 x 110
Weight in grams	460g ( transmitter + receiver )

## 5.0 Service and support

This user manual has been carefully written by ACT's technical experts. If you have problems installing or using the product, please fill out the support form at the website <https://support.act-connectivity.com/>

## 6.0 Warning and points of attention



Due to laws, directives and regulations set out by the European parliament, some (wireless) devices could be subject to limitations concerning its use in certain European member states. In certain European member states the use of such devices could be prohibited. Contact your (local) government for more information about this limitations.

Always follow up the instructions in the manual\*, especially where it concerns devices which need to be assembled.

Warning: In most cases this concerns an electronic device. Wrong/improper use may lead to (severe) injuries!

When you connect the device to the mains, make sure it will not be damaged or subject to (high) pressure.

A power socket is needed which should be close and easy accessible from the device.

Repairing of the device should be done by qualified ACT staff. Never try to repair the device yourself. The warranty immediately voids when products have undergone self-repair and/or by misuse.

Dispose of the device appropriately. Please follow your countries regulation for the disposal of electronic goods.

Please check below safety points carefully:

- Do not apply external force on the cables
- Do not unplug the device by pulling the power cable
- Do not place the device near heating elements
- Do not let the device come in contact with water or other liquids
- If there is any strange sound, smoke or odor, remove the device immediately from the power outlet.
- Do not put any sharp objects into the venting hole of a product
- Do not use any damaged cables (risk of electric shock)
- Keep the product out of reach of children
- Wipe off the product with soft fabric, not water mop.
- Keep the power plug and outlet clean
- Do not unplug the device from the power outlet with wet hands
- Unplug the device when you don't use it for a long time
- Use the device at a well ventilated place

*\*Tip: ACT manuals are written with great care. However, due to new technological developments it can happen that a printed manual does not longer contain the most recent information. If you are experiencing any problems with the printed manual or you cannot find what you are looking for, please always check our website [www.act-connectivity.com](http://www.act-connectivity.com) first for the newest updated manual.*

## 7.0 Warranty conditions

The ACT warranty applies to all ACT products. After buying a second-hand ACT product the remaining period of warranty is measured from the moment of purchase by the product's initial owner. ACT warranty applies to all ACT products and parts, indissolubly connected or mounted to the product it concerns. Power supply adapters,

batteries, antennas and all other products not directly integrated in or connected to the main product or products of which, without reasonable doubt, can be assumed that wear and tear during use will show a different pattern than the main product, are not covered by the ACT warranty. Products are not covered by the ACT warranty when exposed to incorrect/improper use, external influences or when opening the service parts of the product by parties other than ACT. ACT may use refurbished materials for repair or replacement of your defective product. ACT cannot be held responsible for changes in network settings by internet providers. We cannot guarantee that the ACT networking product will keep working when settings are changed by the internet providers. ACT cannot guarantee the working of web services, apps and other third party content that is available through ACT products

**When my product gets defective**

Should you encounter a product rendered defective for reasons other than described above: Please contact your point of purchase for taking care of your defective product.