

# HDMI® Over IP Receiver for ST12MHDLAN4K

# ST12MHDLAN4R



\*actual product may vary from photos

FR: Guide de l'utilisateur - fr.startech.com

**DE:** Bedienungsanleitung - de.startech.com

ES: Guía del usuario - es.startech.com

**NL:** Gebruiksaanwijzing - nl.startech.com

PT: Guia do usuário - pt.startech.com IT: Guida per l'uso - it.startech.com

For the latest information, technical specifications, and support for this product, please visit www.startech.com/ ST12MHDLAN4R.

#### **FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for a Class A 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

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

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. Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

### **Industry Canada Statement**

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [A] est conforme à la norme NMB-003 du Canada. CAN ICES-3 (A)/NMB-3(A).

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) L'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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# Introduction

# **Packaging contents**

- 1 x HDMI over IP receiver
- 1 x universal power adapter (NA, EU, UK, ANZ)
- · 1 x mounting bracket
- 1 x CAT5 cable
- 1 x RJ11 to RS232 adapter
- 1 x R I 11 cable
- 1 x plastic screwdriver
- 1 x quick-start guide

# System requirements

- The ST12MHDLAN4K HDMI over IP Distribution Kit 4K
- An HDMI video source with cabling such as a computer or Blu-ray<sup>™</sup> player
- An HDMI display device(s) such as a television or projector (one for each receiver)
- A run of Network cabling for the transmitter and each receiver

## Note:

The transmitter and receivers referenced in this manual support IR extension. However, the IR blaster and IR receiver must be sourced externally.



## **Product View**

#### Front view

Additional receiver units sold separately:
StarTech com SKU: ST12MHDI AN4R



#### **Back view**



- 1. Function 1 button
- 2. Function 2 button
- 3. Dip rotary switch
- 4. Serial control (not active)\*
- 5. Serial extension (for extending RS-232 signal)
- 6. Infrared (in) and (out) ports\*\*\*
- 7. Audio in port\*\*
- 8. Video resolution selection switch
- 9. DC 9-12V power jack
- 10. Network status LED
- 11. Reset button
- 12. LAN port (RJ-45)
- 13. HDMI output port (audio/video)
- 14. 3.5 mm output port (audio)
- 15. Link and power LED

- \* Serial control port is not active. To control the ST12MHDLAN4K download our free mobile application. (see Page 6).
- \*\*Audio in port is not functional in Video Wall or Point to Multi-Point configurations.
- \*\*\* IR port functionality is not supported by StarTech.com

# Installation

# Preparing your site

**Note:** This device will only work with the ST12MHDLAN4K HDMI® Extender kit. Please review site preparation steps from the ST12MHDLAN4K manual prior to installing additional receivers. The ST12MHDLAN4K HDMI extender kit lets you extend your 4K30 video over a Gigabit LAN network, beyond the typical cable length restriction of 330 ft. (100m) of Gigabit network portals.

Refer to the manufacturer of the network equipment to determine the length restriction and to ensure the transmitter unit and receiver unit(s) are all within the restricted range of the nearest network portal.

**Note:** Ensure the transmitter unit, and receiver unit(s) are all situated near AC electrical outlets

- Determine where the local video source (i.e. computer, Blu-ray player) will be located and set up the transmitter device near that location.
- Determine where the remote display will be located and set up the receiver near that location
- (Optional) If using additional displays determine where they will be located and set the additional receiver unit(s) near that location.

## Hardware installation

Video wall or point to multi-point installation with a Gigabit LAN network

- 1. Install the transmitter unit
- a) Connect a video source device, such as a computer or Blu-ray player, to the transmitter's video input port.
- b) Connect the transmitter's DC 9-12V power jack to an AC electrical outlet, using one of the included power adapters.
- c) (Optional) If you intend to add a separate 3.5 mm audio source that can be embedded into the HDMI signal and selected as the audio source, connect a 3.5 mm audio cable to your audio source device and to the transmitter's analog audio source port.
- 2. Install the receiver unit(s)
- a) Connect a display to the receiver unit's video output port using an HDMI cable.
- b) Connect the receiver unit's power jack to an AC electrical outlet, using one of the included power adapters.



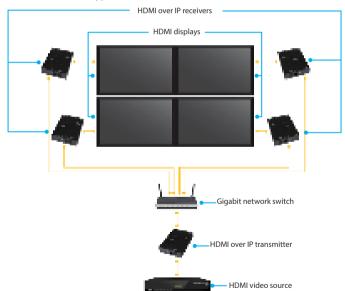
c) (Optional) If you are using additional ST12MHDLAN4R receivers (sold separately), repeat steps [a) through c)] for each additional receiver.

**Note:** The rotary dip switches on the transmitter and each receiver connected to the network must be set in the same position for the devices to communicate.

- 3. Connect the devices to a Gigabit LAN network
- a) Connect an RJ-45 terminated Cat5e or Cat6 Ethernet cable to the LAN port on the transmitter unit, and to each of the receiver units.
- b) Connect the other end of the Cat5e or Cat6 cable to a Gigabit LAN hub, router or switch.

**Note:** Your router must support IGMP snooping. Please refer to your network switch or router documentation to ensure IGMP snooping is supported and enabled.

4. Verify that the image from your video source appears on video display(s) attached to the receiver unit(s).



(Additional receiver units sold separately, StarTech.com SKU: ST12MHDLAN4R)



- (Optional) Connect external 3.5 mm speakers to your remote receiver(s) Analog audio output port.
- 6. Select your audio source.
- a) If you'd like the remote device(s) (external speakers and HDMI displays) to output the native HDMI audio that's on your HDMI source, set the transmitter's audio selection switch to Video
- b) If you'd like to use the 3.5mm audio source that you connected to the Analog audio source port, set the transmitter's audio selection switch to Audio In.

Note: Both the HDMI output port and the Analog audio output will output whatever audio source is selected.

# Software installation

The HDMI distribution kit features video control software that helps you manage your IP video distribution and video wall configuration. The software is available on iOS for your iPhone or iPad, Android™ for your smartphone or tablet, and for the Google Chrome™ browser.

To install the software:

- Visit http://www.StarTech.com/ST12MHDLAN4K, using the device you intend to install software on
- Under the overview tab, select the link for the store that corresponds with your device







- 3. Select the option to download and install the software from the store page.
- 4. Open the software, to verify that it has installed correctly.

**Please note:** A full production manual with details regarding operation of the application is available at: http://www.startech.com/ST12MHDLAN4K



# Technical support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit www.startech.com/downloads

# Warranty information

This product is backed by a two-year warranty.

StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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