

## HDMI Over IP Extender Kit - 1080p

ST12MHDLNHK  
ST12MHDLNHR



\*actual product may vary from photos

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## FCC Compliance Statement

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:

- 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.

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

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

CAN ICES-3 (B)/NMB-3(B)

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
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# Introduction

## Package Contents for ST12MHDLNHK

- 1 x HDMI Over IP Transmitter
- 1 x HDMI Over IP Receiver
- 2 x Universal Power Adapters (NA, EU, UK, ANZ)
- 2 x Mounting Brackets
- 2 x CAT5 Cables
- 1 x Plastic Screwdriver
- 1 x IR Remote Control
- 2 x USB-A to Mini USB-B Cable
- 1 x DB9 to 2.5 mm Serial Adapter Cable
- 1 x IR Blaster
- 1 x IR Receiver
- 8 x Rubber Feet
- 1 x Instruction Manual

## Package Contents for ST12MHDLNHR

- 1 x HDMI Over IP Receiver
- 1 x Universal Power Adapters (NA, EU, UK, ANZ)
- 1 x Mounting Bracket
- 1 x CAT5 Cable
- 1 x Plastic Screwdriver
- 1 x IR Remote Control
- 1 x USB-A to Mini USB-B Cable
- 1 x DB9 to 2.5 mm Serial Adapter Cable
- 1 x IR Receiver
- 4 x Rubber Feet
- 1 x Instruction Manual

## Requirements

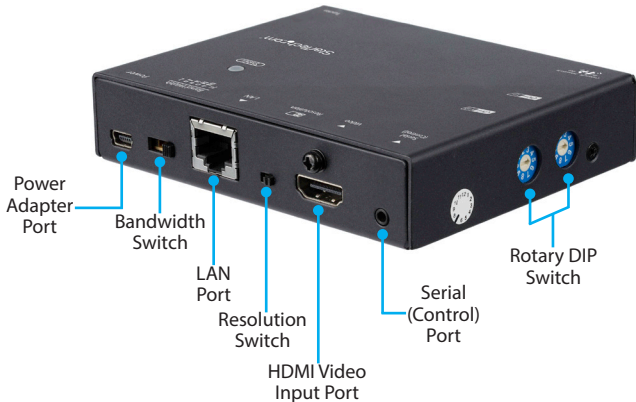
- HDMI® Enabled Video Source Device(s) (e.g. computer, Blu-ray™ player)
- HDMI Enabled Display Device(s) (e.g. television, projector) - one for each Receiver
- AC Electrical Outlet for the Transmitter and each Receiver
- HDMI Cable for Video Source(s) and Display(s)
- 10/100 or Gigabit Networking Devices (e.g. LAN hub, router or switch)
- Network Cable (CAT5/5e/6)

# Product Diagram

## Transmitter Front View



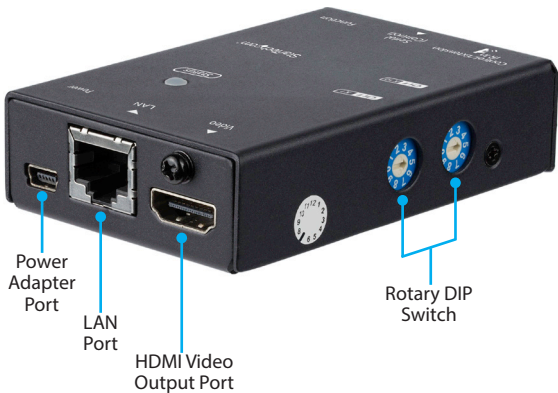
## Transmitter Rear View



## Receiver Front View



## Receiver Rear View





# Hardware Installation and Configuration

## Preparing Your Site

**Note:** The ST12MHDLNHK HDMI Over IP Extender Kit can use a 10/100 Ethernet LAN or Gigabit LAN Network (preferred) to extend the signal. Maximum supported distance between two Ethernet devices is 100 meters.

**Note:** Always use the included Universal Power Adapters.

Ensure the Transmitter and Receiver(s) are all situated near an available AC Electrical Outlet.

1. Determine where the HDMI Enabled Video Source (e.g. computer, Blu-ray Player) will be located and set up the device.
2. Determine where the HDMI Enabled Display Device will be located and place or mount the display appropriately.
3. **(Optional)** If using additional Receivers (ST12MHDLNHR), determine where the HDMI Enabled Display Device(s) will be located and place or mount the displays appropriately.

## Point-to-Point Installation without a LAN Network

### 1. Install the Transmitter

- a) Position the Transmitter near the HDMI Enabled Video Source Device.
- b) Connect an HDMI cable from the Source Device (e.g. computer, Blu-ray Player) to the HDMI Video Input Port on the Transmitter.
- c) Connect the Transmitter to an AC Electrical Outlet using the Universal Power Adapter.

### 2. Install the Receiver

- a) Position the Receiver near the HDMI Enabled Display Device.
- b) Connect an HDMI cable from the video input on the HDMI Enabled Display Device to the HDMI Video Output Port on the Receiver.
- c) Connect the Receiver to an AC Electrical Outlet using the Universal Power Adapter.

**Note:** The Rotary DIP Switch on the Transmitter and Receiver must be set in the same position for the devices to communicate.

### 3. Connect the Transmitter to the Receiver

- a) Connect an RJ-45 terminated CAT5/5e/6 Ethernet cable to the LAN Port on the Transmitter.

**Note:** If you are using surface cabling, ensure you have enough CAT5/5e/6 unshielded twisted pair (UTP) network cabling to connect the Transmitter to the Receiver's location, and that each end is terminated with an RJ-45 connector.

**OR**

If you are using premises cabling, ensure that the CAT5/5e/6 unshielded twisted pair (UTP) network cabling between the Transmitter and Receivers has been properly terminated in a wall outlet in each location and there is a patch cable long enough to connect the Transmitter and Receivers to their respective outlets.

b) Connect the other end of the CAT5/5e/6 cable to the RJ-45 connector on the Receiver.

**4. Your source video image will now appear on the Receiver's attached video displays.**

## Point-to-Multipoint Installation with a LAN Network

### 1. Install the Transmitter

- Position the Transmitter near the HDMI Enabled Video Source.
- Connect an HDMI cable from the HDMI Video Input Port on the Transmitter to the video output on the Source Device (e.g. computer, Blu-ray Player).
- Connect the Transmitter to an AC Electrical Outlet using the Universal Power Adapter.

### 2. Install the Receivers

- Position the Receiver(s) near the HDMI Enabled Display Device(s).
- Connect an HDMI cable from the video input on the HDMI Enabled Display Device to the HDMI Video Output Port on the Receiver.
- Connect the Receivers to AC Electrical Outlets using the Universal Power Adapters.

**Note:** The Rotary DIP Switch on the Transmitter and Receivers must be set in the same position for the devices to communicate.

### 3. Connect the Devices to a LAN Network

**Note:** If you are using surface cabling, ensure you have enough CAT5/5e/6 unshielded twisted pair (UTP) network cabling to connect the Transmitter to the LAN hub, router, or switch.

**OR**

If you are using premises cabling, ensure that the CAT5/5e/6 unshielded twisted pair (UTP) network cabling between the Transmitter and LAN hub, router, or

switch has been properly terminated in a wall outlet in each location and there is a patch cable long enough to connect the Transmitter and LAN hub to their respective outlets.

- a) Connect an RJ-45 terminated CAT5/5e/6 Ethernet Cable to the LAN Port (RJ-45 Connector) on the Transmitter and Receiver(s).
- b) Connect the other end of the CAT5/5e/6 Cable(s), from the Transmitter and Receiver(s), to a LAN hub, router or switch.  
**Note:** Your Router must support IGMP snooping. Refer to your network switch or router documentation to ensure IGMP snooping is supported and enabled.
- c) **(Optional)** When adding additional Receivers (ST12MHDLNHR – sold separately), a run of CAT5/5e/6 Cable will be required from each device to the LAN hub, router or switch.

**4. Configure your IP address (see “IP Configuration” for detailed instructions).**

**5. Your source video image will now appear on the Video Displays connected to the Receivers.**

## Matrix with a Gigabit LAN Network

**Note:** IGMP snooping must be enabled on your Networking Device for matrix/multicast operation.

### 1. Install the Transmitters

**Note:** The maximum number of Transmitters you can integrate into your Matrix is 99.

- a) Position the Transmitters near the HDMI Enabled Video Sources.
- b) Connect HDMI cables from the HDMI Video Input Ports on the Transmitters to the video output ports on the Source Devices (e.g. computer, Blu-ray Player).
- c) Connect the Transmitters to AC Electrical Outlets using the Universal Power Adapters.

### 2. Install the Receivers

- a) Position the Receivers near the HDMI Enabled Display Devices.
- b) Connect HDMI cables from the HDMI Video Output Ports on the Receivers to the video inputs on the HDMI Enabled Display Devices.
- c) Connect the Receivers to AC Electrical Outlets using the Universal Power Adapters.

**Note:** The Rotary DIP Switch on the connected Transmitters and Receivers 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 CAT5/5e/6 Ethernet cable to the LAN Port (RJ-45 Connector) on the Transmitters and Receiver(s).

**Note:** If you are using surface cabling, ensure you have enough CAT5/5e/6 unshielded twisted pair (UTP) network cabling to connect the Transmitter(s) to the LAN hub, router, or switch.

**OR**

If you are using premises cabling, ensure that the CAT5/5e/6 unshielded twisted pair (UTP) network cabling between the Transmitters and a LAN hub, router, or switch has been properly terminated in a wall outlet in each location and there is a patch cable long enough to connect the Transmitters and LAN hub to their respective outlets.

- b) Connect the other end of the CAT5/5e/6 cable run to a LAN hub, router or switch.

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

- c) **(Optional)** When connecting additional Receivers (ST12MHDLNHR – sold separately), a run of CAT5/5e/6 cable will be required from each device to the LAN hub, router or switch.

### 4. Configure your IP address (see “IP Configuration” for detailed instructions).

### 5. Your source video images will now appear on the Video Displays connected to the Receivers.

## IP Configuration

**Note:** The default IP address of each Transmitter and Receiver will be different.

### Determine if DHCP is Supported and Enabled

Discovering whether or not your networking device supports DHCP, and ensuring DHCP is enabled, will determine your next steps when configuring your IP address. If your networking device supports DHCP, and DHCP is enabled, then your hub switch or router will assign an IP address automatically. If your networking device does not support DHCP, or DHCP is not enabled, then your Transmitter and Receiver(s) will default to the factory assigned static IP address.

To check if your computer has DHCP enabled complete the following steps:

**Note:** Depending on your operating system these instructions may vary.

1. Open your computer's **Control Panel**.
2. Select **View Network Connections**.
3. Right-click on the network you intend to connect to and select **Properties**.

4. Navigate to **Internet Protocol Version 4 (TCP/IPv4)** and select **Properties**.
5. DHCP is enabled if the following two options are selected: **Obtain an IP address automatically** and **Obtain DNS server address automatically**.
6. DHCP is not enabled if you have configured your IP manually and the following options are selected: **Use the following IP address** and **Use the following DNS server address**.

You can now proceed to configure your IP address automatically or manually, depending upon your DHCP settings.

### **DHCP is Enabled on your Network Device**

If you are using a hub, switch or wireless router that supports DHCP function, enable DHCP. The switch or wireless router will assign the IP address to the Transmitter and Receiver automatically.

**Note:** The Transmitter(s) and Receiver(s) that are being paired together must be on the same channel to communicate. Ensure the Rotary DIP Switch is set to the same channel on both the Transmitter and Receiver(s).

### **DHCP is not Enabled on your Network Device**

If you are using a hub, switch or wireless router that does not support DHCP, then your Transmitter and Receiver(s) will default to the factory assigned static IP address. To change this IP address you will need to access the Web GUI through your web browser. You must first determine the factory assigned IP address. To do so, you must complete the hardware installation over a network device. By default, each Transmitter and Receiver will have an IP address in the range of 169.254.x.x. Your computer's IP address and Subnet mask must be in the same range to communicate with the Transmitter and Receiver(s) and to become visible on your display. Complete the following steps to configure your computer:

1. Open your computer's **Control Panel**.
2. Select **View Network Connections**.
3. Right-click on the network you are going to connect to and select **Properties**.
4. Navigate to **Internet Protocol Version 4 (TCP/IPv4)** and select **Properties**.
5. Change the **IP address** to 169.254.x.x (x=number between 0 and 255).
6. Change the **Subnet mask** to 255.255.0.0

When this is complete, and both the Transmitter and the Receiver(s) are powered on, you will see the following information on your computer screen and HDMI Enabled Display Device:

<b>F/W version:</b>	0.2.4.0.20160406
<b>RX IP address:</b>	169.254.4.18
<b>TX IP address:</b>	169.254.30.117
<b>Group ID:</b>	CH11
<b>Device ID:</b>	IPTV
<b>Status:</b>	Connected

The RX IP address displays the Receiver's IP address. The TX IP address displays the Transmitter's IP address. To access the Transmitter or Receiver for configuration complete the following:

1. Enter the **TX IP address** or **RX IP address** in the address bar of your web browser.
2. Use the default **user ID: admin** and **password: 123456** to log into the GUI.
3. Scroll down to the **Ethernet** header and configure your IP address, Subnet mask, and Gateway to be in the same range for your Transmitter and Receiver(s).

**Note:** If you have changed your Transmitter and/or Receiver IP settings, configure your computer's IP address, Subnet mask, and Gateway to be in the same range as the new settings for your Transmitter and Receiver in order to access the Web GUI.

### Configure the IP Settings for Multiple Transmitters

In order to obtain the IP settings information for multiple Transmitters, configure your Transmitter and Receiver in a one-to-one setup over a LAN. The Rotary DIP Switch on the connected Transmitter and Receiver must be set in the same position or channel for the devices to communicate.

## Operation

### LED Indicators

HDMI Over IP Transmitter LED Behavior	Significance
<b>Note:</b> For HDCP signals the blue LED is replaced by a purple LED	
Flash green	Initiating power up
Flash green 1 time + flash blue 2 times	Source connected, unlinked
Flash blue 1 time + flash green 2 times	LAN connected, unlinked
Flash blue 3 times	Source and LAN connected, unlinked

Solid green	Source connected, linked
Solid blue + flash green 2 times	LAN connected, linked
Solid blue + flash blue 2 times	Source and LAN connected, linked
HDMI Over IP Receiver LED Behavior	Significance
<b>Note:</b> For HDCP signals the Blue LED is replaced by a Purple LED	
Flash red	Initiating power up
Flash green 3 times	Source connected, unlinked
Flash blue 1 time + flash green 2 times	LAN and Source connected, unlinked
Solid red	Source connected, linked
Solid blue + flash green 2 times	LAN connected, linked
Solid blue + flash blue 2 times	Source and LAN connected, linked
Solid blue + flash red 2 times	EDID copy error

## Push-Button Control

Unit	Function Button
HDMI Over IP Transmitter and HDMI Over IP Receiver	Press once to link or unlink the paired Transmitter(s) and Receiver(s)
	Press and hold for 3 seconds to enter standby mode
	<b>Note:</b> Connect your EDID compliant display to the HDMI Video Port on your HDMI Over IP Transmitter and power on the display before attempting this function
	Press and hold for 12 seconds for EDID copy function
	Press and hold for 24 seconds to restore factory default settings

## Infrared (IR) Blaster and Receiver Operation

**Note:** IR signals require direct line of sight communication between remote controls and receivers. Ensure your IR Remote Control is pointed directly at your IR Receiver. Also ensure your IR Blaster is pointing directly towards your Source Device's IR receiver. Consult your Source Device's user manual to find the exact location of the IR receiver.

## Direct IR Control of the Source Device at the Transmitter

Connect the IR Receiver to the Control IR In / Extension IR Out Port on the Transmitter. Using the IR Remote Control, you can now control the HDMI Enabled Source Device from the Transmitter side of your setup.

## Direct IR Control of the Display Device at the Receiver

Connect the IR Receiver to the Control IR In / Extension IR Out Port on the Receiver. Using the IR Remote Control, you can now control the HDMI Enabled Video Source Device from the Receiver side of your setup.

## IR Extension from Receiver to Transmitter

Connect the IR Receiver to the Control IR In / Extension IR Out Port on the Receiver. Connect the IR Blaster to the Control IR In / Extension IR Out Port on the Transmitter. Using the remote control from your HDMI Enabled Source Device, you can control the Source device that's connected to the Transmitter from the Receiver.

## IR Remote Control

Special Keys	Function
M3 + Shift	Channel down
M5 + Shift	Channel up
1-9 + Shift	Select single digit channel 1~9
1-9 + 10/0 + Shift	Select double digit channel 10~99
(Transmitter only) Shift + Video	Toggle LAN output on/off
(Receiver only) Video	Toggle HDMI output on/off

## Bandwidth Switch

This four-stage switch enables you to adjust the bandwidth of data that flows through the Transmitter. Toggle the Bandwidth Switch to the high "H" side when using a small number of Transmitters connected to high-definition HDMI Enabled Display Devices. Toggle the Bandwidth Switch to the low "L" side when using a large number of Transmitters connected to high-definition HDMI Enabled Display Devices. Toggle the switch to any of the settings between "H" and "L" to optimize your bandwidth, for optimal display performance when multiple Receivers are attached to one Source Device.

## Resolution Switch

This two-stage switch enables you to adjust the resolution of all your HDMI Enabled Display Devices. Toggle the Resolution Switch to the right (the side displaying a small



symbol) to enable 1080p resolution. Toggle the switch to the left to enable 720p resolution. Because this switch is located on the Transmitter the resolution will be adjusted for all of your Display Devices, at all the Receiver sites that have been paired with this Transmitter.

## Serial Control

The Transmitter and Receivers can be controlled by direct Serial connection.

**Note:** Only one Transmitter or Receiver can be controlled at any given time.

To connect either the Transmitter or Receiver(s) to your computer, connect the DB9 to 2.5 mm Serial Adapter Cable to the Serial Port on your computer and the 2.5 mm connector to the Serial (Control) Port on the Transmitter or Receiver. To control the Transmitter or Receiver via Serial, use the following configuration and commands:

Serial Configuration	
Type	RS232
Baud Rate	38400
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

Transmitter Command	Description
IP=n1.n2.n3.n4	IP Address Example: n1=192, n2=168, n3=1, n4=1 IP Address = 192.168.1.1
NETMASK=n1.n2.n3.n4	Netmask Example: n1=255, n2=255, n3=255, n4=0 Netmask = 255.255.255.0
GATEWAY=n1.n2.n3.n4	Gateway Example: n1=192, n2=168, n3=1, n4=189 Gateway = 192.168.1.189

IPALL=i1.i2.i3.i4 n1.n2.n3.n4 g1.g2.g3.g4	Example: i1=192,i2=168, i3=1, i4=1, n1=255, n2=255, n3=255, n4=0, g1=192, g2=168, g3=1, g4=189  IP address = 192.168.1.1; Netmask: 255.255.255.0; Gateway: 192.168.1.189
GROUP=n	Group ID, n: 0 ~ 1023 Example: n=22, Group ID=22
OBR=n,m	Output Bit Rate, n=F, H, S (FHD, HD, SD), m= Bit rate (Kb) Example: OBR=F, 8, Display in Full HD format with 8 Bit rate
DS=n,m	Down Scale Output n = F or H ( F = FHD, H = HD), m = F, H, S ( F = FHD, H = HD, S = SD ), Example: DS=F, H, Downscale from 1080p to 720p Example: n=115200, Bypass Baud Rate 115200
DN=n	Name Device n: ASCII String (max size - 31) Example: DN = 0C, Device Name = 12
GCID	Get company ID
VS	View current settings
PI	Product information
FACTORY	Reset to factory default setting
REBOOT	Reboot device
UPDATE	Firmware update
PAUSE=n	Pause or run the firmware, n: 0 - Run, n=1 - Pause Example: PAUSE=0, Run the firmware

PWD=n

Power on / off, n: 0, Power on, n=1,  
Power off

Example: PWD=1, Power off the  
Transmitter unit

Receiver Command	Description
CE	Copy monitor EDID to Transmitter
AVOE	AV output enable
AVOD	AV output disable
MAC=n1 n2 n3 n4 n5 n6	Set MAC address
DHCP=n	DHCP On/Off, n : 0 - Off, 1 - On Example: DHCP = 1, DHCP On
IP=n1.n2.n3.n4	IP address Example: n1=192, n2=168, n3=1, n4=1 IP address=192.168.1.1
NETMASK=n1.n2.n3.n4	Subnet mask Example: n1=255, n2=255, n3=255, n4=0 Subnet mask: 255.255.255.0
GATEWAY=n1.n2.n3.n4	Gateway address Example: n1=192, n2 =168, n3=1, n4=189 Gateway address = 192.168.1.189
IPALL=i1.i2.i3.i4 n1.n2.n3.n4 g1.g2.g3.g4	Example: i1=192,i2=168, i3=1, i4=1 n1=255, n2=255, n3=255, n4=0, g1=192 g2=168, g3=1, g4=189, IP address=192.168.1.1; Subnet mask=255.255.255.0; Gateway: 192.168.1.189

GROUP=n	Group ID, n: 0 ~ 1023 Example: n = 22, Group ID=22
BAUD=n	Bypass Baud Rate, n : 2400, 4800, 9600, 19200, 28800, 38400, 57600, 115200 Example: BAUD = 115200, Bypass Baud Rate115200
DN=n	Name Device: n: ASCII String (max size - 31) Example: DN = 0C, Device Name = 12
GCID	Get company ID
VS	View current settings
PI	Product information
FACTORY	Reset to factory default settings
REBOOT	Reboot device
UPDATE	Firmware update
PAUSE=n	Pause firmware, n: 0 - Free run, 1 - Pause Example: PAUSE=0, Run the firmware

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## Warranty Information

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