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HDMI Over IP Extender Kit - 1080p



Actual product may vary from photos

User Manual

SKU#: ST12MHDLAN2K & ST12MHDLAN2R

For the latest information and specifications visit
www.startech.com/ST12MHDLAN2K
www.startech.com/ST12MHDLAN2R

Manual Revision: 10/22/2018

Compliance Statements

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 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

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)

Use of Trademarks, Registered Trademarks, and other Protected Names and Symbols

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For the State of California

⚠ WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Safety Statements

Safety Measures

- Wiring terminations should not be made with the product and/or electric lines under power.
- Product installation and/or mounting should be completed by a certified professional as per the local safety and building code guidelines.
- Cables (including power and charging cables) should be placed and routed to avoid creating electric, tripping or safety hazards.

Mesures de sécurité

- Les terminaisons de câblâge ne doivent pas être effectuées lorsque le produit et/ou les câbles électriques sont sous tension.
- L'installation et/ou le montage du produit doit être réalisé par un professionnel certifié et dans le respect des normes locales et du code de construction local.
- Les câbles (y compris les câbles d'alimentation et de chargement) doivent être placés et acheminés de façon à éviter tout risque électrique, de chute ou de sécurité

安全対策

- 電源が入っている状態の製品または電線の終端処理を行わないでください。
- 製品の設置やマウントは、使用地域の安全ガイドラインおよび建築基準に従い、有資格の専門業者が行うようにしてください。
- ケーブル（電源ケーブルと充電ケーブルを含む）は、適切な配置と引き回しを行い、電気障害やつまづきの危険性など、安全上のリスクを回避するようにしてください。

Misure di sicurezza

- I terminiali dei fili elettrici non devono essere realizzate con il prodotto e/o le linee elettriche sotto tensione.
- L'installazione e/o il montaggio dei prodotti devono essere eseguiti da un tecnico professionale certificato che conosca le linee guida locali sulle norme edilizie e sulla sicurezza.
- I cavi (inclusi i cavi di alimentazione e di ricarica) devono essere posizionati e stesi in modo da evitare pericoli di inciampo, rischi di scosse elettriche o pericoli per la sicurezza.

Säkerhetsåtgärder

- Montering av kabelavslutningar får inte göras när produkten och/eller elledningarna är strömförda.
- Installation och/eller montering får endast göras av behöriga yrkespersoner och enligt gällande lokala förordningar för säkerhet och byggnormer.
- Kablar (inklusive elkablar och laddningskablar) ska dras och placeras på så sätt att risk för snubblingsolyckor och andra olyckor kan undvikas.

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To view manuals, videos, drivers, downloads, technical drawings, and more visit www.startech.com/support

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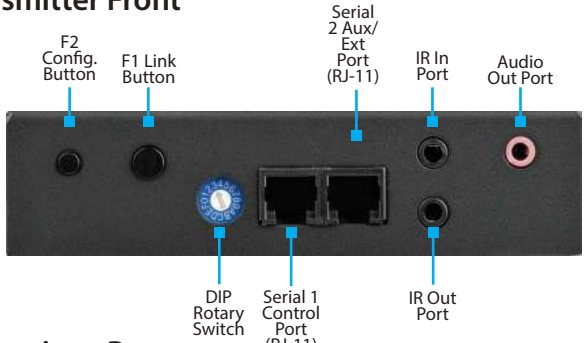
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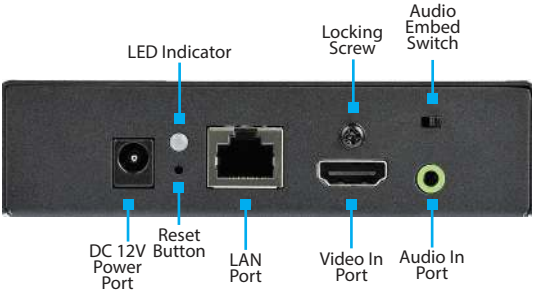
Product Diagram

Actual product may vary from photos

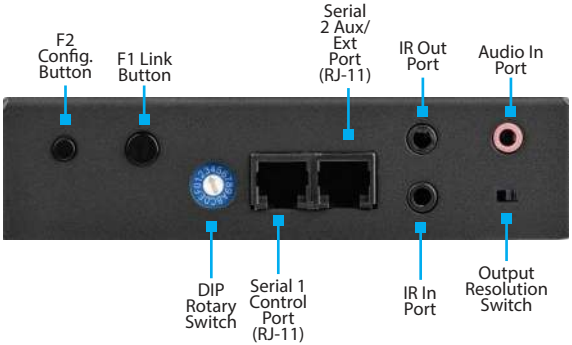
Transmitter Front



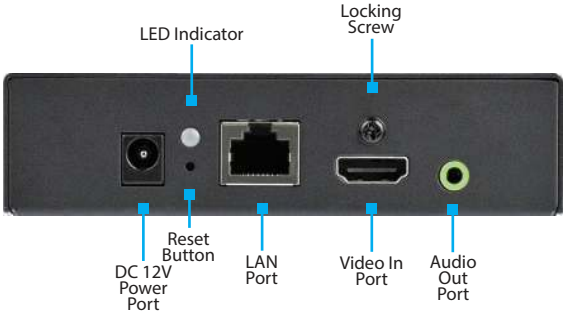
Transmitter Rear



Receiver Front



Receiver Rear



Product Information

Package Contents (ST12MHDLAN2K)

- HDMI Transmitter x 1
- HDMI Receiver x 1
- Universal Power Adapters (NA, EU, UK, ANZ) x 2
- Hardware Kit x 1
  - Mounting Brackets x 2
  - Mounting Screws x 8
  - HDMI Locking Screws x 2
  - Plastic Screwdriver x 1
- CAT5 Cable x 1
- RJ-11 to RS-232 Adapters x 2
- RJ-11 Cables x 2
- IR Blaster x 1
- IR Receiver x 1
- Foot Pads x 8
- User Manual x 1

Package Contents (ST12MHDLAN2R)

- HDMI Receiver x 1
- Universal Power Adapters (NA, EU, UK, ANZ) x 1
- Hardware Kit x 1
  - Mounting Brackets x 2
  - Mounting Screws x 8
  - HDMI Locking Screws x 1

- Plastic Screwdriver x 1
- CAT5 Cable x 1
- RJ-11 to RS-232 Adapters x 1
- RJ-11 Cables x 1
- IR Blaster x 1
- IR Receiver x 1
- Foot Pads x 4
- User Manual x 1

Requirements

For the latest requirements, please visit www.startech.com/ST12MHDLAN2K or www.startech.com/ST12MHDLAN2R.

Installation:

- Phillips Head Screwdriver
- Writing Utensil
- Level

Display:

- HDMI Displays x 1 (per HDMI Receiver)

Devices:

- HDMI Video Source x 1 (per HDMI Transmitter)

Installation

1. Set up an **HDMI Video Source Device** (e.g. computer) and an **HDMI Display Device** in the desired location.
2. Position the **HDMI Transmitter** near the **HDMI Video Source Device** you set up in step 1.
3. Connect an **HDMI Cable** from the **HDMI Video Source Device** to the **Video In Port** on the back of the **HDMI Transmitter**.

   Note: *If you are using a Locking HDMI Cable, use a Phillips Head Screwdriver to remove the screw above the Video Port. Connect an HDMI Cable to the Video In Port on the back of the HDMI Transmitter, and re-insert the Locking Screw into the Locking Screw Hole. Using the Phillips Head Screwdriver, tighten the Locking Screw. Be careful not to over-tighten.*
4. Position the **HDMI Receiver** near the **HDMI Video Display Device** you set up in step 1.
5. Connect an **HDMI Cable** from the **Video Out Port** on the back of the **HDMI Receiver** to the **HDMI Video Display Device**.

   Notes: *To connect additional HDMI Receivers (sold separately), repeat step 5.*

6. Connect a **CAT5e/CAT6 Cable** to the **LAN Port** on the back of the **HDMI Transmitter**.
7. Connect the other end of the **CAT5e/CAT6 Cable** to the **LAN Port** on the back of the **HDMI Receiver**.

   Note: *The cabling should not go through any networking* equipment (e.g. router, switch, etc.).
8. Connect the **Universal Power Adapter** to the **DC 12V Power Port** on both the **HDMI Transmitter** and **HDMI Receiver** and to an **AC Electrical Outlet**.

Optional Installation

Using a Separate 3.5 mm Audio Source

Audio In Port (Transmitter)/Audio Out Port (Receiver):

If you intend to add a separate 3.5 mm audio source (Microphone) that can be embedded into the HDMI signal and selected as the audio source:

1. Connect a **3.5 mm Audio Cable** to the **Audio In Port** on the **HDMI Transmitter** and the other end to the **Audio Source Device**.
2. Connect a **3.5 mm Audio Cable** to the **Audio Out Port** on the **HDMI Receiver** and the other end to an **Output Device**.

Audio Out Port (Transmitter)/Audio In Port (Receiver):

If you intend to transmit an audio signal from the **HDMI Receiver** to the **HDMI Transmitter**.

1. Connect a **3.5 mm Audio Cable** to the **Audio In Port** on the **HDMI Receiver** and connect the other end of the cable to the **Audio Device.**
2. Connect a **3.5 mm Audio Cable** to the **Audio Out Port** on the **HDMI Transmitter** and connect the other end of the cable to the **Output Device**.

Connect the Devices to a Gigabit LAN Network

The **HDMI Transmitter** and **HDMI Receiver** can be used in a video wall or point to multi-point or point-to-point configuration over a Gigabit LAN.

1. Connect a **CAT5e/CAT6 Cable** to the **LAN Port** on the **HDMI Transmitter**.
2. Connect the other end of the **CAT5e/CAT6 Cable** to a Gigabit LAN hub, router or switch.
3. Connect a **CAT5e/CAT6 Cable** to the **LAN Port** on the **HDMI Receiver**.
4. Connect the other end of the **CAT5e/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.*

5. Verify that the image from your **Video Source** appears on the **Display Devices** attached to the **HDMI Receiver**(s).

Using the RJ-11 to RS-232 Adapters

The **RJ-11 to RS-232 Adapter** can be used to connect a **Serial Device** to either the **HDMI Transmitter** or **HDMI Receiver**.

1. Connect an **RJ-11 Cable** to the **Serial 2 Aux/Ext Port (RJ-11)** on either the **HDMI Transmitter** or **HDMI Receiver**.
2. Connect the other end of the **RJ-11 Cable** to the **RJ-11 Port** on a **Adapter**.
3. Plug the **RS-232 Connector** on the **Adapter** into an **RS-232 Port** on the **Serial Device**.

Note: *When connecting the RS-232 connector on the Adapter to the Serial Device you may need to use an additional serial cable or adapter.*

Installing the IR Receiver and IR Blaster

The **IR Receiver** and **IR Blaster** can be connected to either the **HDMI Transmitter** or **HDMI Receiver**.

HDMI Transmitter:

If the device receiving the IR signal is at the **HDMI Receiver** side:

1. Connect the **IR Receiver** to the **IR In Port** on the front of the **HDMI Transmitter**.
2. Position the **IR Receiver** where you'll point your **IR Remote Control**.

If the device receiving the IR signal is at the **HDMI Transmitter** side:

1. Connect the **IR Blaster** to the **IR Out Port** on the front of the **HDMI Transmitter**.
2. Position the **IR Blaster** directly in front of the **HDMI Video Source's IR Sensor** (if you're unsure, check the manual of your **HDMI Video Source** to determine the **IR Sensor** location).

HDMI Receiver:

If the device receiving the IR signal is at the **HDMI Receiver** side:

1. Connect the **IR Blaster** to the **IR Out Port** on the **HDMI Receiver**.
2. Position the **IR Blaster** directly in front of the device's **IR Sensor** (if you're unsure, check the manual of your **Video Source** to determine the **IR Sensor** location).

If the device receiving the IR signal is at the **HDMI Transmitter** side:

1. Connect the **IR Receiver** to the IR In Port on the **HDMI Receiver**.
2. Position the **IR Receiver** where you'll point your **IR Remote Control**.

Mounting the Extender

Notes: *StarTech.com is not responsible for any damages related to the installation of this product.*

Prior to mounting, please test the product's port compatibility with all devices intended for use with this product.

1. Align the **Mounting Bracket** with the two **Mounting Screw Holes** on the side of the **HDMI Transmitter** and/or **HDMI Receiver** (two per side).

   Note: *Make sure that the large circular opening on the Mounting Holes is at the bottom when the Mounting Brackets are installed. This will ensure that you can properly mount the bracket on the wall.*

2. Insert the **Mounting Screws** through the **Mounting Bracket** and into the **Mounting Screw Holes** on the side of the **HDMI Transmitter** and/or **HDMI Receiver**.

3. Using a **Phillips Head Screwdriver** tighten the four **Mounting Screws**, be careful not to over-tighten.

4. Before mounting the **HDMI Transmitter** and/or **HDMI Receiver** make sure that the surface you are mounting to is strong enough to support the weight of the **HDMI Transmitter** and **HDMI Receiver**. It is recommended that you mount the **HDMI Transmitter** and/or **HDMI Receiver** onto a wall stud to provide the correct support.

5. Measure the distance between the **Mounting Screw Holes** on the **Mounting Brackets**.

6. Using a **Level** and a **Writing Utensil**, mark the distance measured between the two **Mounting Screw Holes** on the mounting surface.
7. Using a **Phillips Head Screwdriver**, screw the two **Mounting Screws** into the surface, using the **Mounting Screw Hole** locations marked in step 6 as a guide. Make sure that you leave space between the head of the screw and the wall.
8. Align the large circular holes on the **Mounting Bracket** with the **Mounting Screws**.
9. Slide the **HDMI Transmitter** and/or **HDMI Receiver** down, to lock the **Mounting Brackets** in place.

Installing the Feet

1. Remove the adhesive backing from the foot pads.
2. Align each of the foot pads with the four impressions on the bottom of the HDMI Transmitter and HDMI Receiver.
3. While applying pressure, affix the feet to the bottom of the HDMI Transmitter and HDMI Receiver.

Configuration

Rotary DIP Switch

The **Rotary DIP Switch** on the **HDMI Transmitter** and connected **HDMI Receiver**(s) must be set to the same position/channel for the devices to communicate.

- Use the flat end of the **Plastic Screwdriver** (included) to adjust the **Rotary DIP Switch's** position.

Serial 1 Control Port

The **Serial 1 Control Port** is currently not support by StarTech.com. It is recommended that the StarTech.com Wall Control app is used to configure the **HDMI Transmitter** and **HDMI Receiver**(s).

Output Resolution Switch

The **Output Resolution Switch** is located on the **HDMI Receiver** and has two settings:

Native:

Sets the video output to a max of 1080p @ 60Hz.

Scaling:

Set the video output to 720p @ 60Hz

Audio Embed Switch

The **Audio Embed Switch** is located on the **HDMI Transmitter** and has two settings:

Embedded:

Embeds external audio from the Audio In Port into the HDMI signal.

HDMI:

Uses the audio from the HDMI signal.

Function Buttons

The **F1 (Link)** and **F2 (Config.)** function buttons allow you to perform the following functions:

HDMI Transmitter/HDMI Receiver F1 Button

Link/Unlink Video:

- Press the **F1 Button** once.

Factory Reset:

1. Power off the **HDMI Transmitter** or **HDMI Receiver** (unplug the **Universal Power Adapter** from the **HDMI Transmitter** or **HDMI Receiver**).
2. Press and hold the **F1 Button**.
3. Power on the **HDMI Transmitter** or **HDMI Receiver** (plug the **Universal Power Adapter** back into the **HDMI Transmitter** or **HDMI Receiver**).
4. Release the **F1 Button** after 17 seconds (the **Power/Link LED** will flash green and blue).
5. For a second time power cycle the **HDMI Transmitter** or **HDMI Receiver**.

HDMI Transmitter/HDMI Receiver F2 Button

Graphic/Video Mode:

- Press and hold the **F2 Button** for 1 second.

Anti-Dither Adjustment Mode:

- Press and hold the **F2 Button** for 3 seconds.

EDID Copy (HDMI Receiver only):

1. Power off the **HDMI Transmitter** or **HDMI Receiver** (unplug the **Universal Power Adapter** from the **HDMI Transmitter** or **HDMI Receiver**).
2. Press and hold the **F2 Button**.
3. Power on the **HDMI Transmitter** or **HDMI Receiver** (plug the **Universal Power Adapter** back into the **HDMI Transmitter** or **HDMI Receiver**).
4. Release the **F2 Button** after 12 seconds (the **Network Status LED** will flash yellow).

Rebooting the System

1. With the **HDMI Transmitter** or **HDMI Receiver** powered on, Insert a pointed-tip object (e.g. pin) into the recessed Reset Button.
2. Hold the recessed **Reset Button** until the **HDMI Transmitter** or **HDMI Receiver** reboots.

StarTech.com Wall Control App

General Navigation and Operation

You can access the StarTech.com Wall Control app software menu from any screen by clicking the **Menu** icon in the top right-hand corner of the screen.

From the menu you can access each of the options below.

Help: Lists information and walkthroughs regarding operation of the application.

Device Search Mode: Enables you to define your preferred method of identifying the Transmitter and Receiver on the network. You can choose between two methods of identification, Multicast DNS or Target IP.

Multicast DNS: is the default setting and will search automatically for devices over the network.

Target IP: is an advanced setting that enables you to specify an IP address that the remote devices are set to, in order for the software to identify them. This is a good option if you'd like multiple setups with different displays and transmitters on different subnets and IP address ranges.

Clear All Settings: Restores your software to default settings.

Demo Mode: Creates a virtual environment with multiple Transmitters and Receivers that enables you to configure a virtual setup without physically connecting the Transmitters or Receivers, to test the functionality.

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 for iOS and/or Android™ devices.

1. Using a browser, navigate to www.StarTech.com/ST12MHDLAN2K.
2. Scroll down on the ***Overview*** tab and select the link for the store that corresponds with your device.
3. Download the StarTech.com Wall Control app.

Connecting Transmitters and Receivers to the Software

Note: *To ensure the application functions properly, your router must support IGMP snooping. Please refer to your network switch or router documentation to ensure IGMP snooping is supported and enabled.*

1. Connect the device you installed the **StarTech.com Wall Control** app on to the same network as your transmitter(s) and receiver(s).
2. Select on the **StarTech.com Wall Control** icon.

3. The app will open to the ***DEVICES*** screen and automatically populate the ***DEVICES*** screen with all Transmitters and Receivers connected to the network.

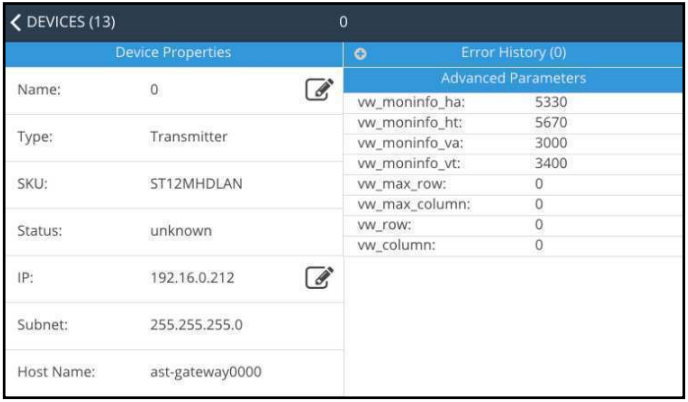


DEVICES screen

Note: *You can re-initiate the device search, by selecting the* **Refresh** *button in the top right-hand corner of the* ***DEVICES*** *screen.*

Adjusting the IP Address and Subnet Masks

1. On the ***DEVICES*** screen, click on a **Transmitter** or **Receiver**.
2. The ***Device Properties*** screen will appear.



Device Properties screen

3. Click the **Edit** Icon next to the IP address you wish to configure.

4. The ***Network Settings*** screen will appear.



Network Settings screen

5. Select the **Static** button, an **IP Address** and **Subnet Mask** field will appear.



Static Button

6. Using the on-screen keyboard, enter an IP address and subnet mask for the device.

   - or -

   Select DHCP and your network will automatically assign an IP address and subnet mask to the device in the range of the rest of your network devices.

   ***Note:** DHCP must be enabled on your network to automatically assign an IP address and subnet mask.*

7. Click the **Save** button to apply the new IP address and subnet mask to the selected device.

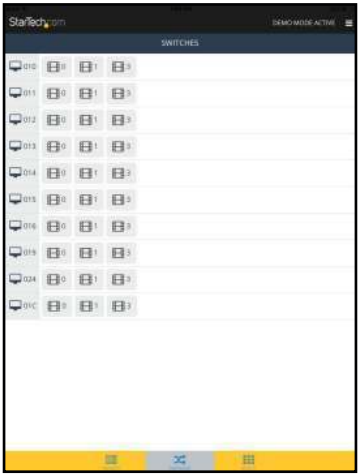
   - or -

   Click the **Cancel** button to discard any changes made and return to the ***Device Properties*** screen.

Switching Your Remote Displays Between Video Sources

1. On the ***DEVICES*** screen, select the **SWITCHES**  button on the toolbar at the bottom of the screen.

2. The ***SWITCHES*** screen will appear.



SWITCHES screen

3. A list of connected receivers and transmitters will be displayed. The transmitter that is currently selected for each receiver will be highlighted in yellow.

   Note: *If the receiver is part of a video wall it will be indicated with a button that lists the wall configuration and the location of the receiver.*

4. To assign a **Video Source**, or change the **Video Source**, select the transmitter listed next to your receiver that you would like to display.

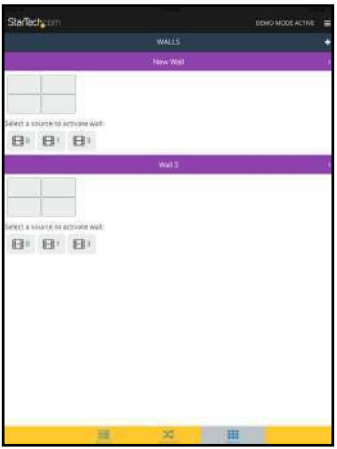
5. The transmitter will turn yellow and the **Video Source** will switch on the remote display.

   Note: *If a receiver that was part of a video wall configuration is altered, that display will no longer be part of the video wall configuration.*

Configuring Your Remote Displays for a Video Wall Application

1. On the ***DEVICES*** screen, select the **WALLS** 

button on the toolbar at the bottom of the screen.
2. The ***WALLS*** screen will appear.



WALLS screen

3. Select the **+** icon, the ***Video Wall*** screen will appear.



Video Wall screen

4. Select the **Wall Name** field. Using the on-screen keyboard enter a name for the new video wall configuration.

5. Select the **Rows** field. From the drop-down list select the number of rows in the video wall configuration.



Rows drop-down list

6. Select the **Columns** field. From the drop-down list, select the number of rows in the video wall configuration.

Note: *The* **Cancel** *button will take you back to the* ***WALLS*** *screen without adding a video wall configuration.*

7. Select the **Next** button. A video wall display will appear based on the number of rows and columns selected on the previous screen. The video wall display allows you to associate a connected receiver with each of the receiver locations in the video wall display.



WALLS Screen

8. Select a receiver location on the video wall display. The ***Pick a Receiver for*** screen will appear.
9. Pick a receiver from the list of connected receivers.

   - or -

   Click the **Cancel** button to return to the previous screen.
10. Once a receiver is selected it will appear in yellow on the video wall display.

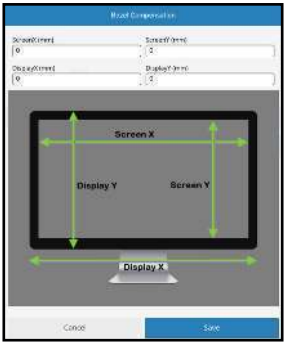
11. The **Name** field will list the **Wall Name** entered on the ***Video Wall*** screen by default. By selecting the **Name** field, the **Wall Name** can be overwritten.

12. To see the Receiver name on each screen, select the **Show device names on screen** switch.

13. (Optional) Select the **Bezel Compensation** button to scale the image on the displays to create a more natural, seamless look by specifying the bezel compensation.

14. The ***Bezel Compensation*** screen will appear:

    - **ScreenX:** Allows you to adjust the display's width in millimeters (mm).
    - **ScreenY:** Allows you to adjust the display's height in millimeters (mm).
    - **DisplayX:** Allows you to adjust the total width of the display in millimeters (mm).
    - **DisplayY:** Allows you to adjust the total height of the display in millimeters (mm).



Bezel Compensation screen

15. Click the **Save** button to save the bezel compensation settings and return to the ***Video Wall*** screen.

    - or -

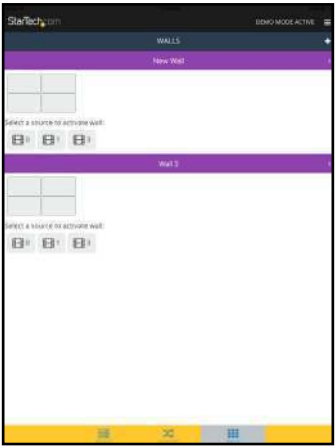
    Click the **Cancel** button to discard changes and return to the ***Video Wall*** screen.

16. On the ***Video Wall*** screen, click the **Save** button to save the video wall settings and return to the ***WALLS*** screen.

    - or -

    Click the **Cancel** button to discard changes and return to the ***WALLS*** screen.

17. The ***WALLS*** screen will appear.



WALLS screen

18. The new video wall configuration will appear on the ***WALLS*** screen.

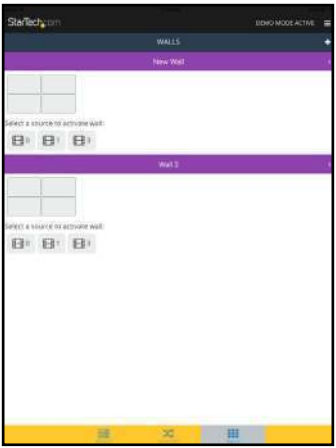
19. Select a **Source** (transmitter) to activate the video wall.

20. The selected source and receivers in the configuration will be highlighted:
    - **Yellow:** Indicates which devices in the video wall configuration are active.
    - **Gray:** Indicates that the receiver is currently being used in another video wall configuration.

Note: *You can adjust the settings defined for each video wall configuration or delete your video wall configuration by clicking the arrow next to each video wall.*

Adjusting Video Tear

1. On the ***DEVICES*** screen, select the **WALLS** button on the toolbar at the bottom of the screen.
2. The ***WALLS*** screen will appear.



WALLS screen

3. Select on the **Arrow** icon next to the video wall name.
4. The ***Video Wall*** screen will appear.
5. Select the **Video Tear Correction** button.
6. The ***Video Tear Correction*** screen will appear.



Video Tear Connection screen

7. Adjust the **Sliders** until the video tear line moves off the display.
8. Click the **Done** button once you have adjust the video tear.

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