

H.264 HDMI Over IP Video Wall Extender

User Manual

Models 208338 & 208345



intellinetnetwork.com

Important: Read before use. • Importante: Leer antes de usar.



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Introduction

The H.264 HDMI Over IP Video Wall Extender offers a cost effective solution to complete a variety of AV setups, including point-to-point, one-to-many, many-to-many and video-wall configurations. Both the transmitter and receiver work together to provide Full-HD audio and video to TVs, projectors or monitors up to 100 m (330 ft.) with nearly zero latency. This Extender works with any HDMI source such as a Blu-ray disk player, DVD player, PC, notebook, gaming console (ex. SONY PlayStation®, Nintendo Switch™) and is HDCP compliant.

No software or utility is required to easily build a video-wall display. The transmitter (TX) and receiver (RX) include rotary switches to create the desired set up (e.g., a 10-position switch for 10 TX-RX pairings and 16-position switch for 1x2-, 2x2-, or 3x3-screen video-wall displays). When used with an IGMP-snooping-enabled Gigabit Ethernet network switch, point-to-point, one-to-many, many-to-many configurations can exist on the same IP LAN. This Extender is the perfect choice for displaying digital media in all kinds of environments and for all kinds of purposes, including for surveillance systems, digital signage, trade shows, campuses, airports, shopping centers and conference centers. Connect up to 10 Transmitters (#208338) and 246 Receivers (#208345).

Setup Components

- H.264 HDMI Over IP Video Wall Extender - Transmitter
- H.264 HDMI Over IP Video Wall Extender - Receiver
- Power adapters — 5 V / 2 A
- HDMI cables
- Mounting hardware (with Channel-ID selector tool)
- Hook-&-loop fastener
- Installation manual

Hardware Features

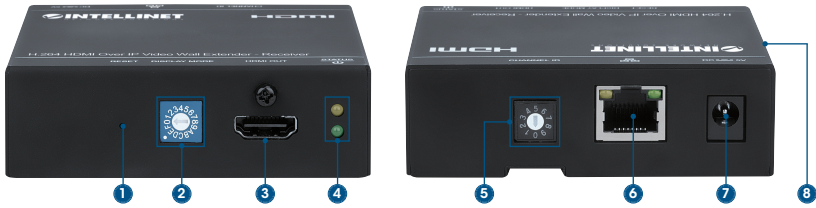
Transmitter



- 1 Reset
- 2 HDMI input port with lock
- 3 LEDs: status (upper, amber); power (lower, green)
- 4 Channel ID
- 5 LAN port
- 6 Power jack
- 7 Security-lock slot



Receiver



- 1 Reset
- 2 Video display ID
- 3 HDMI output port with lock
- 4 LEDs: status (upper, amber); power (lower, green)
- 5 Channel ID
- 6 LAN port
- 7 Power jack
- 8 Security-lock slot

Installation Guide

Complete setup with the instructions below. Images for the setups follow in the **Connect Devices** chapter.

- 1 Use HDMI cable to connect the HDMI Input port on the Transmitter to the HDMI Output port on your source.
- 2 Use HDMI cable to connect the HDMI Output port on the Receiver(s) to the HDMI Input port on your display(s).
- 3 Use Ethernet cable to complete the desired setup:
 - a **Point-to-point**: connect the LAN port on the Transmitter to the LAN port on the Receiver or to a network switch (to extend the signal).
 - b **One-to-many** and **many-to-many**: connect the LAN ports on the Transmitter(s) and Receiver(s) to a local area network through a Router and/or Switch hub.
- 4 Connect each transmitter and receiver to power with the included power adapters.
- 5 Use the channel-selector tool to match the channel IDs on the Transmitter and Receiver (**NOTE**: the devices will not connect automatically; they must be matched manually first).
- 6 To **create a video wall**, refer to the **Video-wall Diagram** section. Order your displays accordingly and set the Display ID on the receivers to the corresponding positions.



Connect Devices

Hardware Installation

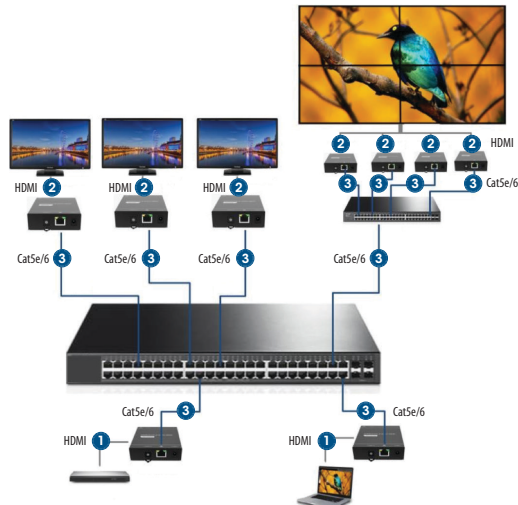
Point-to-point

- Direct connect from Transmitter to Receiver unit.
- Transmitter unit to network switch to Receiver unit.



One-to-many

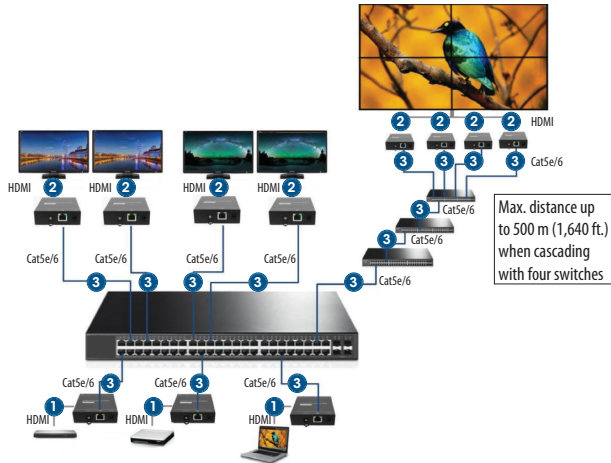
- Transmitter unit to an IGMP-snooping-enabled network switch to many Receiver units.
- Transmitter unit to network topology (must support IGMP snooping) to many Receiver units.



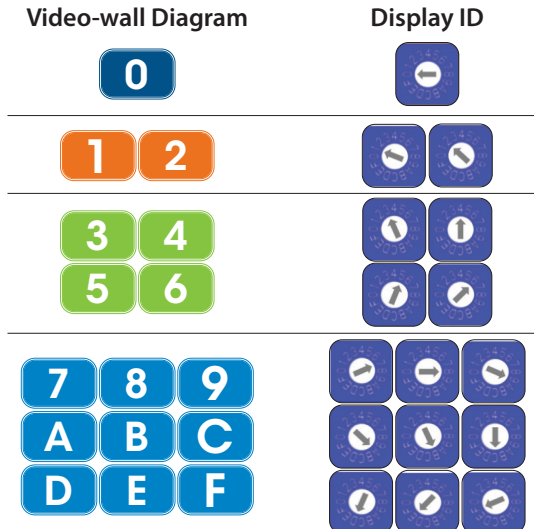


Many-to-many

- Many Transmitter units to an IGMP-snooping-enabled network switch to many Receiver units
- Many Transmitter units to network topology (must support IGMP snooping) to many Receiver units.

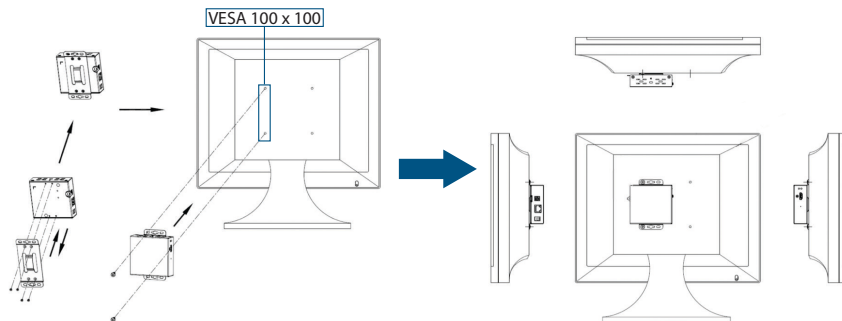


Video-wall Diagram





VESA Mounting



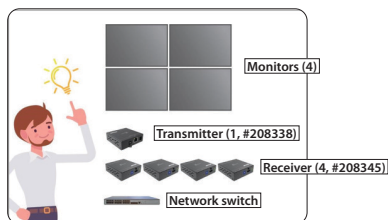
CAUTION! Use only the included power adapters. Using other power adapters may damage your device.
IMPORTANT! Use the correct adapter plug for your area/region. This adapter is for dry and indoor uses only.

Installation Example

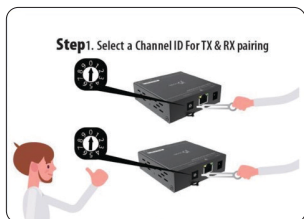
1 Want to set up a 2x2 video wall?



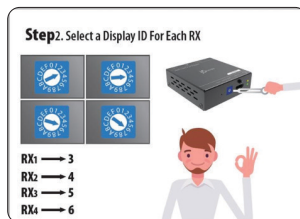
2 You'll need these:



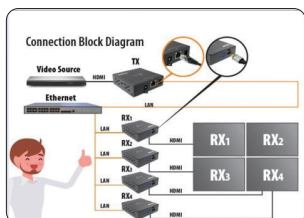
3 Select the TX / RX Channel ID



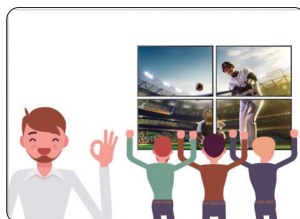
4 Select the RX Display ID



5 Device connections



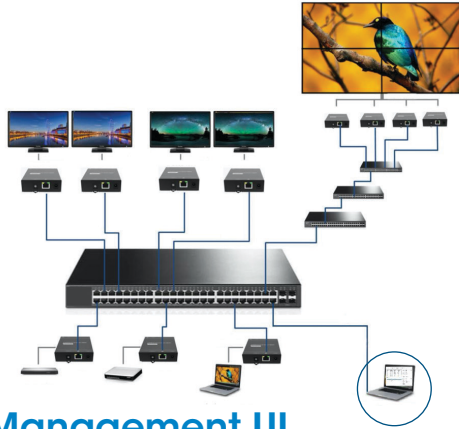
6 Done!





Management UI

In One-to-many or Many-to-many setups, the transmitters and receivers in the Intellinet Network Solutions H.264 HDMI Over IP Video Wall Extender system can be conveniently managed through a Management User Interface (UI). This UI lets users to create and adjust settings for the connected units, see important information about them, create video walls and more. To log into the UI, use RJ45 cable to connect to the primary network switch for all Transmitter and Receiver devices in the setup. See the example setup that follows.



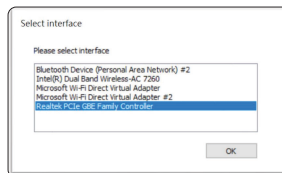
Download the Management UI

Visit the product page at intellinet-network.com/barcode/208338 and click the DOWNLOADS for available downloads. Click the icon titled **INTVWEGUI.exe** at the folder of the Management UI to launch the program.



Select Interface

Make sure your computer is on the the same local area network and select the network device named **Realtek PCIe GBE Family Controller**. Click "OK" to continue.



Introduction to the Management UI

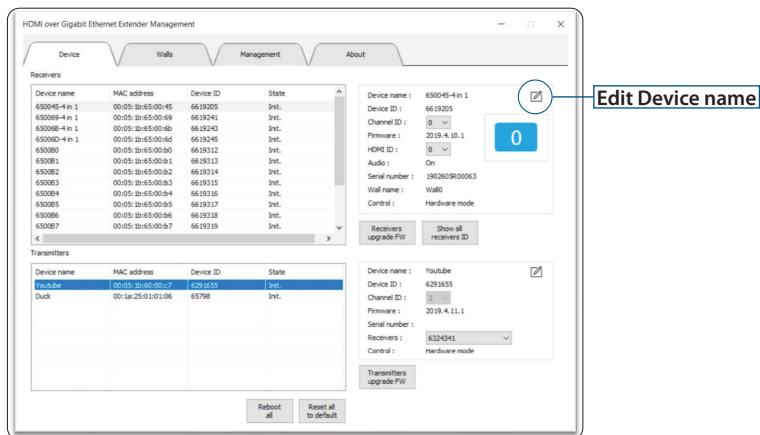
The management UI includes four pages:

- **Device:** see the full information of connected Receivers and Transmitters
- **Walls:** create a new video wall
- **Management:** select or switch the video source for each created video wall; drag and drop the transmitters listed on the left to the video-wall setup shown on the right
- **About:** see publisher and UI version

Management UI - Device

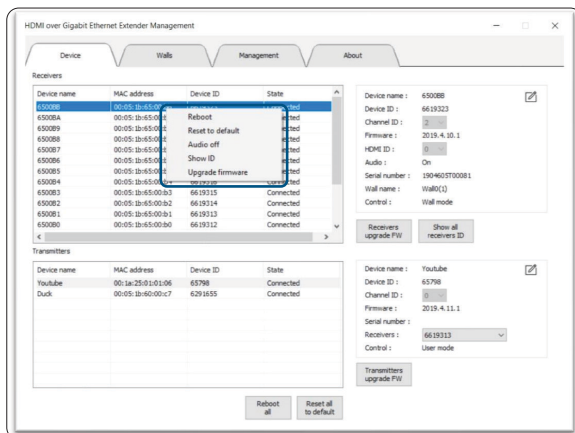
See Receiver & Transmitter Information

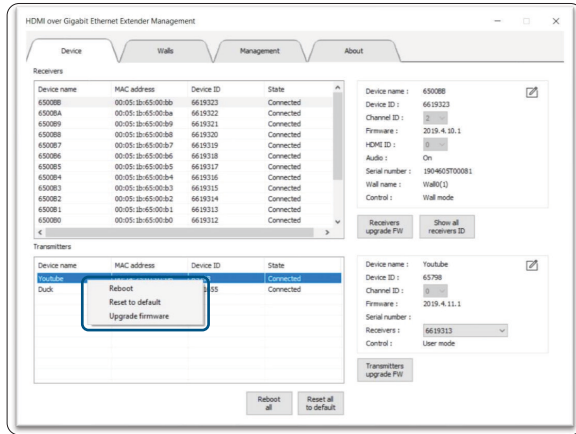
The page shows the **Device name**, **MAC address**, **Device ID** and **State** of all Receivers and Transmitters. To edit the **Device name**, select a Receiver or Transmitter device and click the Edit icon on the top right side of the page.



Advanced Device Settings

Right-click a device for these options: **Reboot**, **Reset to default**, **Audio On/Off**, **Show ID** and **Upgrade firmware**. A device goes to the bottom of the list after it is rebooted. **Show ID** shows the information on the display.



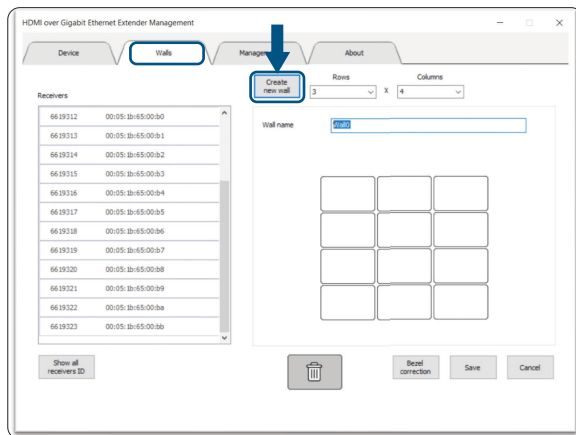


Management UI - Walls

Create New Video Wall

Follow the steps to create a new video wall:

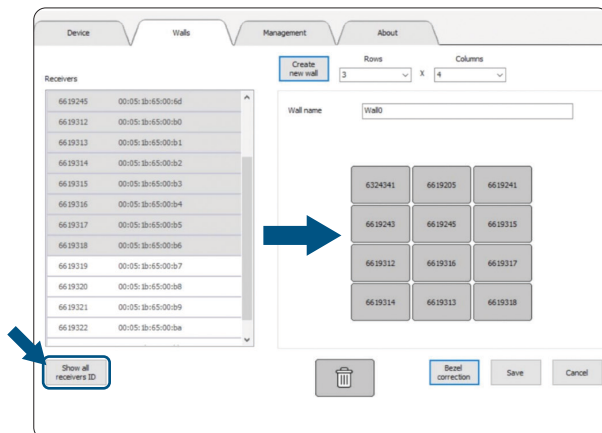
- 1 Click **Create new wall** and select the number of Rows and Columns. Then, edit the Wall name.
- 2 Click **Show all receivers ID** to easily identify which display is connected to each receiver.
- 3 Set the displays' positions using receiver IDs. Select and drag a receiver to the desired position.
- 4 Click **Bezel correction** and select the unit to adjust the widths of each side of the display (i.e., top, bottom, left and right).





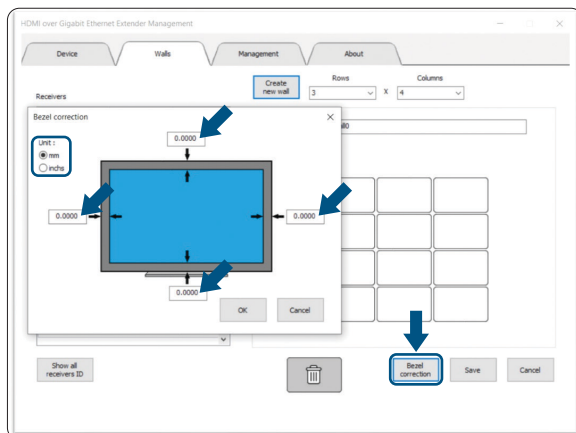
Set Display Position

Click **Show all receivers ID**. Every display screen will show the ID of its connected receiver. Refer to the receivers IDs to select and drag them to the desired positions.



Bezel Correction

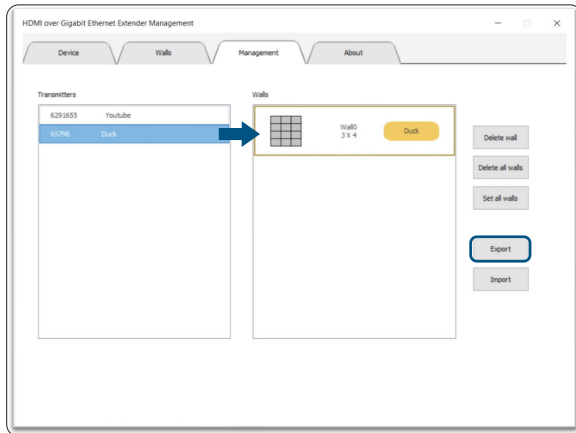
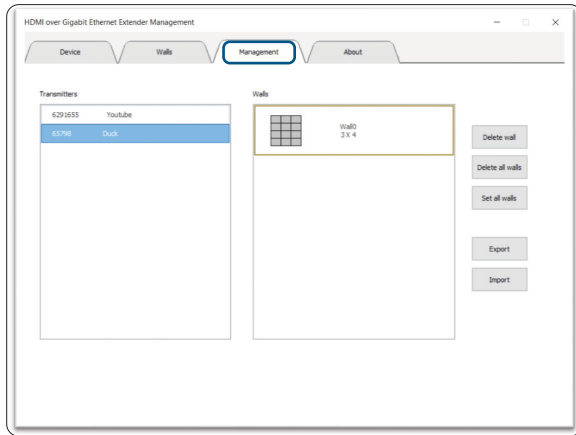
Click **Bezel correction** and select the desired unit to adjust the widths of its right, left, top and bottom sides.





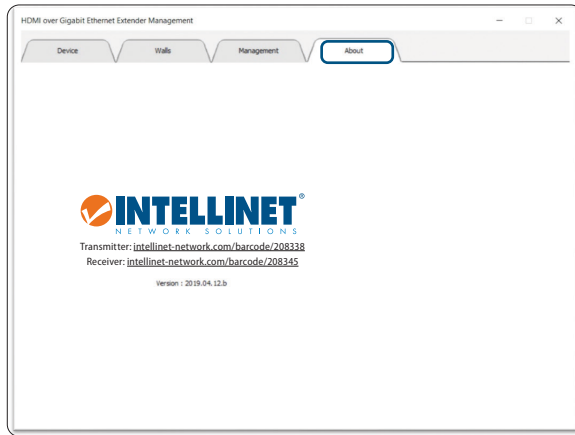
Management UI - Management

Select and drag a Transmitter to the desired wall. Click Export to save the wall configuration. To use this wall in the future, click **Import** and open the file.



About

See the current version of software or check for new software at the link provided.



Notes



Additional Information

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