

HDMI® KVM Over IP Extender | 4K 30Hz | 328 ft. (100 m)



Actual product may vary from photos

User Manual

SKU#: SV565HDIP

Compliance Statements

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

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

This manual may make reference to trademarks, registered trademarks, and other protected names and/or symbols of third-party companies not related in any way to StarTech.com. Where they occur these references are for illustrative purposes only and do not represent an endorsement of a product or service by StarTech.com, or an endorsement of the product(s) to which this manual applies by the third-party company in question. Regardless of any direct acknowledgement elsewhere in the body of this document, StarTech.com hereby acknowledges that all trademarks, registered trademarks, service marks, and other protected names and/or symbols contained in this manual and related documents are the property of their respective holders.

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 câblage 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 terminali 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.

Warning Statements

- Make sure to assemble this product according to the instructions. Failure to do so might result in personal injury or property damage.
- Never use this product if parts are missing or damaged.

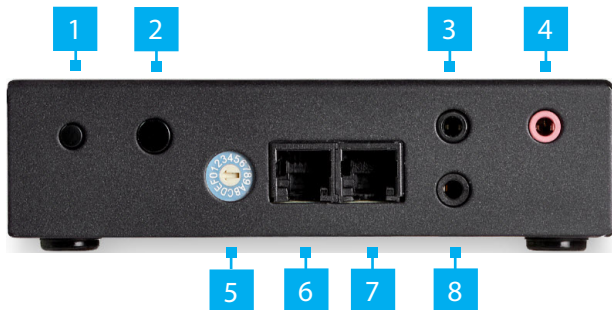
Table of Contents

Compliance Statements	1
Safety Statements	2
Warning Statements	3
Product Diagram	6
Transmitter Front.....	6
Transmitter Back.....	7
Receiver Front.....	8
Receiver Back.....	9
Product Information	10
Package Contents	10
Requirements.....	10
Rotary Dip Switch	11
Changing the Rotary Dip Switch Channel	11
Setting the Rotary Switch When Using a Video Wall	12
Installation	12
Point to Point	12
LAN Connection	13
Optional Installation	14
Installing the Rubber Feet.....	14
Connecting a Microphone	14
Connectivity Diagrams	15

Operation	16
Push button Controls.....	16
LED Indicators.....	18
System Configuration	19
Locating the IP Address for the Transmitter and/or Receiver	19
Accessing System Configuration	19
Checking Version Information.....	20
Updating the Firmware.....	21
Resetting the Transmitter and/or Receiver to Factory Default Settings.....	23
Rebooting the Transmitter and/or Receiver	25
EDID Settings (Receiver Only).....	26
Entering a Console API Command.....	28
Viewing Statistics	30
Basic Video Wall Configuration	31
Advanced Video Wall Configuration	34
Setting an IP Address.....	38
Changing Casting Mode.....	40
Configuring Video Over IP	42
Configuring USB Over IP.....	44
Configuring Serial Over IP.....	46
Frequency Asked Questions (FAQ)	48

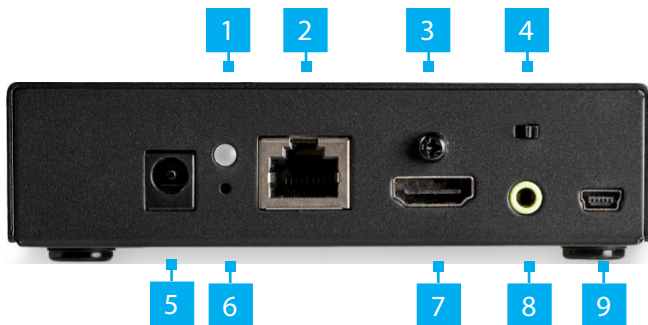
Product Diagram

Transmitter Front



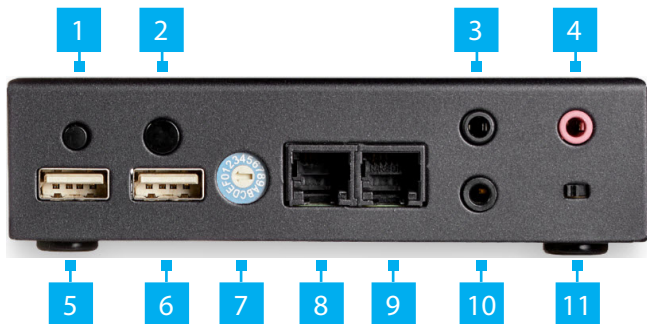
1	F2 Button
2	F1 Button
3	IR In Connector
4	Mic Out Port
5	Rotary Dip Switch Serial Port 2
6	Serial Port 1
7	Serial Port 2
8	IR Out Connector

Transmitter Back



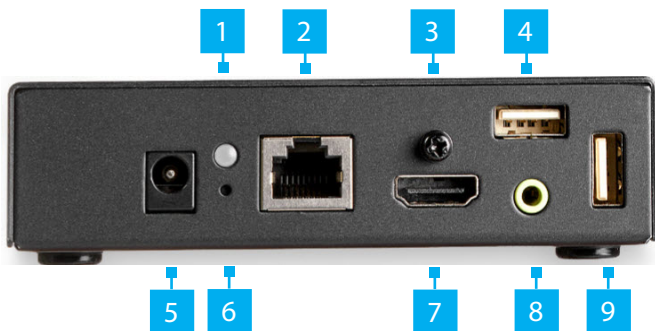
1	Network Status LED
2	RJ45 Port
3	HDMI Lock Screw
4	Audio Embed Switch
5	Power Port
6	Reset Button
7	HDMI Port
8	3.5 mm Audio Port
9	USB-B Port

Receiver Front



1	F2 Button	7	Rotary DIP Switch
2	F1 Button	8	Serial Port 1
3	IR IN Connector	9	Serial Port 2
4	Microphone In Port	10	IR OUT Connector
5	USB-A Port	11	Resolution Switch
6	USB-A Port		

Receiver Back



1	Network Status LED	6	Recessed Reset Button
2	RJ45 Port	7	HDMI Port
3	HDMI Lock Screw	8	3.5 mm Audio Port
4	USB-A Port	9	USB-A Port
5	Power Port		

Product Information

Package Contents

- Transmitter x 1
- Receiver x 1
- Universal Power Adapter (NA, JP, EU, UK, AU/NZ) x 2
- Mounting Kits x 2
- CAT5e Cables x 2
- D89 Serial Adapters x 2
- RJ11 Serial Cables x 2
- HDMI Cable (1 m) x 1
- Mini USB-B to USB-A Cable (1.5 m) x 1
- Rubber Feet x 8
- Plastic Screwdriver x 1
- Quick-Start Guide x 1

Requirements

For the latest requirements, visit www.startech.com/SV565HDIP.

- Video Source Device
 - HDCP 2.2 compliant monitors with HDMI interface
- Display Device
 - HDCP compliant

Note: All connected output displays must be HDCP compliant, when the video sources are HDCP compliant. The Video Source Signal will drop if the system detects non HDCP Display Devices, when an HDCP Video Source.

- Cables
 - CAT5/5e/ 6 UTP cable (EIA/TIA 568B industry standard compliant)
- USB Keyboard
- USB Mouse
- Host Computer or KVM Switch

Rotary Dip Switch

The **Rotary Dip Switch** is located on the front of the **Transmitter** and **Receiver**.



Rotary Dip Switch

If you are adding additional **Transmitters/Receivers** they all need to be set to the same **Rotary DIP Switch** channel.

Note: *By default the **Rotary Dip Switch** on the **Transmitter** and **Receiver** is set to channel 0.*

Changing the Rotary Dip Switch Channel

- On the **Transmitter** and **Receiver**, insert a **Flathead Screwdriver** into the **Rotary Dip Switch Slot** and adjust the **Rotary Dip Switch** to the desired channel.

Note: *Set the **Transmitter** and **Receiver** to the same **Rotary Dip Switch** channel.*

Setting the Rotary Switch When Using a Video Wall

- When using a video wall setup all the units within the setup (Transmitter and Receiver) need to have the **Rotary Dip Switch** set to an individual setting, to prevent interference.

Note: *The maximum screen configuration that you can have while using the Video Wall function is 9 x 9.*

Installation

Point to Point

Transmitter

1. Connect an **HDMI Cable** to the **HDMI Port** on the **Transmitter** and connect the other end to an HDMI port on the **Video Source Device**.
2. Connect a **USB-B Connector** on the **USB-B to USB-A Cable** to the **USB-B Port** on the **Transmitter** and connect the **USB-A Connector** on the [USB-B to USB-A Cable](#) to a **USB-A port** on the **Host Computer** or **KVM Switch**.
3. Connect a **CAT5e/6 Cable** to the **RJ45 Port** on the **Transmitter** and connect the other end to the **RJ45 Port** on the **Receiver**.
4. Connect the **Universal Power Adapter** to the **Power Port** on the **Transmitter** and the other end into an **AC Electrical Outlet**.

Receiver

1. Connect a **USB Device** (Keyboard and/or Mouse) to the **USB-A Ports (2)** on the **Receiver**.

2. Connect an **HDMI Cable** to the **HDMI Port** on the **Receiver** and connect the other end to an HDMI port on the **Display Device**.
3. Connect the **Universal Power Adapter** to the **Power Port** on the **Transmitter** and the other end into an **AC Electrical Outlet**.

LAN Connection

- When using a LAN Connection connect the **Transmitter** and **Receiver** the same you would when connection point to point. However, instead of connecting the **Transmitter** to the **Receiver** you would connect both the **Transmitter** and **Receiver** to a **LAN Device** (switch, router, etc.) using a **CAT 5e/6 Cable**.
- When using a LAN connection you must manually assign an IP Address to the Transmitter and Receiver. See [Accessing System Configuration](#) and the [Setting an IP Address](#) sections for further information.

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

Optional Installation

Installing the Rubber Feet

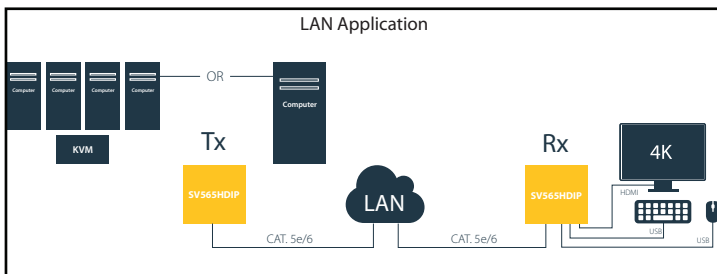
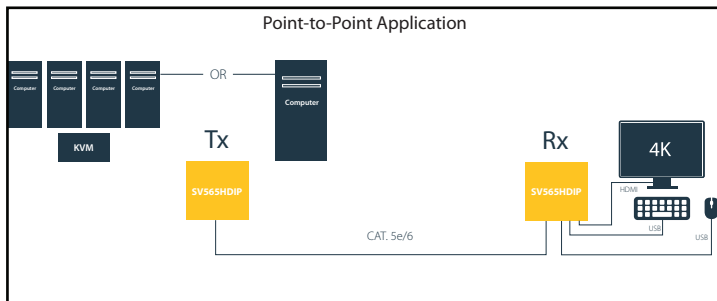
1. Remove the **Rubber Feet** from the **Adhesive Strip**.
2. Align each of the **Rubber Feet** on the back of the **Charging Hub**, close to each of the four corners.
3. Remove the adhesive backing and apply the **Rubber Feet** in the desired positions.

Connecting a Microphone

Note: A **Microphone** can only be connected when the **Transmitter** and **Receiver** are set to **uni-cast casting mode**. See the [Changing Casting Mode](#) section for further information.

1. Connect the **Microphone Cable** to the **Microphone In Port** on the **Receiver**.
2. Connect a **3.5 Audio Cable** to the **Microphone Out Port** on the **Transmitter** and the other end to the **Audio Input Port** on the **Audio Device**.

Connectivity Diagrams



Operation

Push button Controls

Link and Unlink Video

- Push the **F1 Button** on either the **Transmitter** or the **Receiver**, to link and unlink video.

Reset the Transmitter or Receiver to Default Settings

1. Power off the unit.
2. Press and hold the **F1 Button**.
3. While still holding the **F1 Button**, power the unit back on.
4. Hold the **F1 Button** for 17 seconds (the power/link LED will flash green and blue).
5. Power cycle the unit to complete the reset.

Change from Graphic Mode to Video Mode

- Push the **F2 Button** once on either the **Transmitter** or **Receiver**, to switch from **Graphic Mode** (default) to **Video Mode**.

Selecting Anti Dither Adjustment Mode

***Note:** By default the Anti Dither Adjustment Mode is set to off.*

1. Push and hold the **F2 Button** for 3 seconds on either the **Transmitter** or **Receiver**, to switch to **Anti Dither Adjustment Mode Level 1**.
2. Push and hold the **F2 Button** for a second time will change from **Level 1** to **Level 2**.

3. Push and hold the F2 Button for a third time to turn Anti Dither Adjustment Mode off.

Copying EDID Settings

EDID settings can only be copied from the Receiver, using the push buttons.

1. Power off the **Receiver**.
2. Press and hold the **F2** Button.
3. While still holding the **F2** Button, power the **Receiver** back on
4. Hold the **F2** Button for 12 seconds (the network status LED will flash yellow).

Rebooting the System

- Push the **Reset** Button once on either the **Transmitter** or **Receiver**, to reboot the system. (The system can also be rebooted using the Web Interface, see [Rebooting the Transmitter and/or Receiver](#) section).

LED Indicators

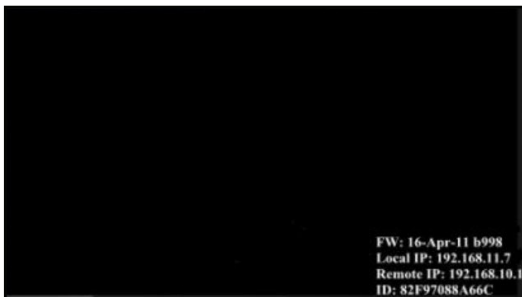
The Transmitter and Receiver both have two LED Indicators. The Network Indicator is located next to the RJ45 Port and the Power/Link LED Indicator is located on the top of the units.

LED	Function
Transmitter/Receiver	
Network	Flashing: Indicates the system is connecting to a network
	Off: Indicates abnormal connection
Power/Link	Solid Green: Indicates that the Transmitter and Receiver are not linked.
	Solid Blue: Indicates that the Transmitter and Receiver are linked.
	Flashing Green and Blue: Indicates that the Transmitter and Receiver are linked but there is no video source.

System Configuration

Locating the IP Address for the Transmitter and/or Receiver

1. Press the **F1** button on the **Receiver**.
2. The IP Address information will appear on the **On Screen Display (OSD)** on the connected **Display Device**:
 - **Local IP** = The Receiver's IP Address.
 - **Remote IP** = The Transmitter's IP Address.



Locating the IP Address

Accessing System Configuration

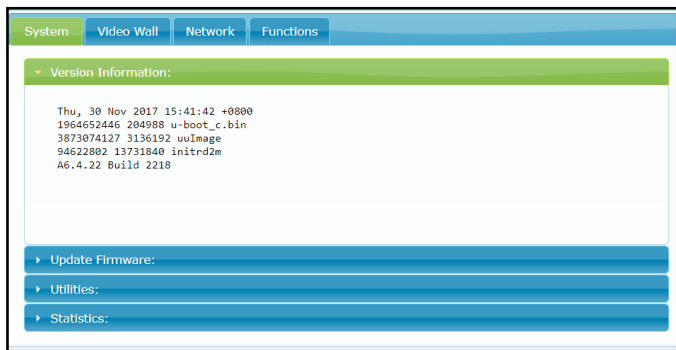
1. Navigate to a web browser and enter either the **Transmitter's** or **Receiver's** IP Address in the address bar.
2. Press the **Enter** key.

3. The **System** tab will appear, giving you access to configure the **Transmitter** or **Receiver** (depending on the IP Address entered).

Checking Version Information

If the **Version Information** tab does not appear when you first log into the **System Configuration**, follow the steps below:

1. From the **System** screen, click on the **Version Information** tab.
2. The **Version Information** tab will appear listing the version information of the **Transmitter** or **Receiver**.

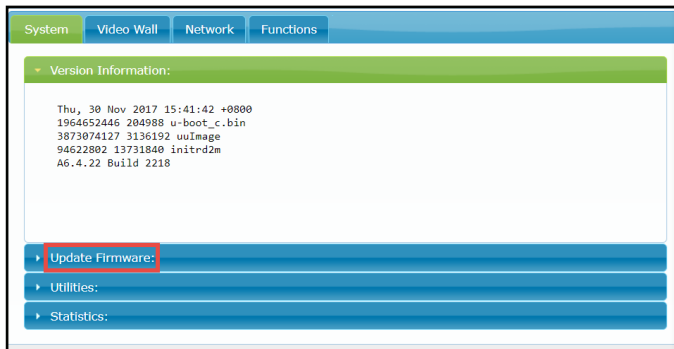


Version Information Screen

Updating the Firmware

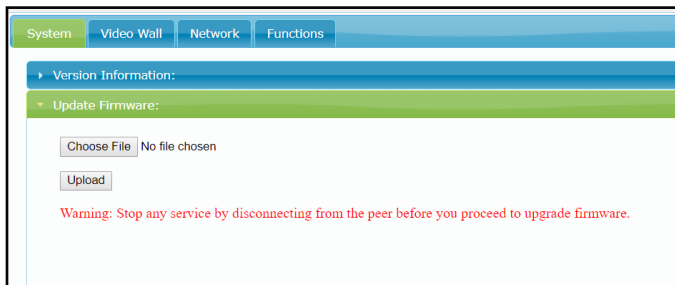
Note: Before updating the firmware ensure that the Transmitter and Receiver are not currently in use.

1. From the **System** screen, click on the **Update Firmware** tab.



Update Firmware Tab

2. The **Update Firmware** tab will appear.

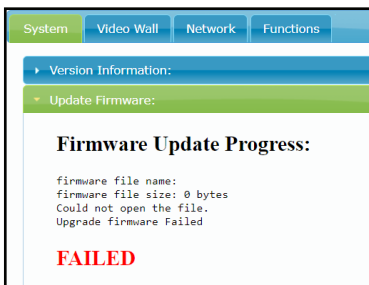


Update Firmware Tab

3. Click on the **Choose File** button to find the firmware file on the connected **Computer**.
4. Select an appropriate firmware file. When the file is selected the name of the file will be listed next to the **Choose File** button.
5. Click the **Upload** button to upload the firmware file. A **Status** screen will appear displaying the status of the firmware update.

Notes: *If the selected file is not the correct file type a warning message will appear indicating that the file type is incorrect.*

Losing power during the firmware update may brick the unit.



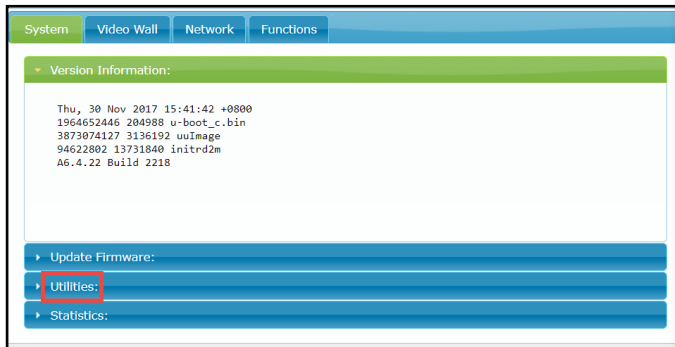
Firmware Update Failed

6. If you see the failed warning use the **Back** button located on the browser to go back to the **Update Firmware** tab.

Note: You can perform the firmware update from either the **Transmitter** or **Receiver**.

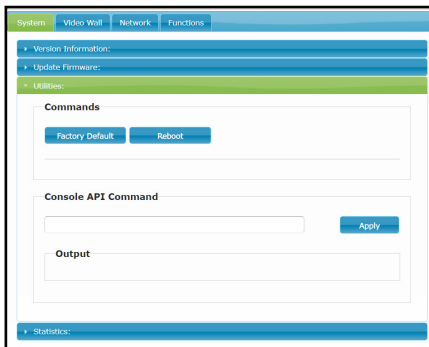
Resetting the Transmitter and/or Receiver to Factory Default Settings

1. From the **System** screen, click on the **Utilities** tab.



Utilities Tab

2. The **Utilities** tab will appear.



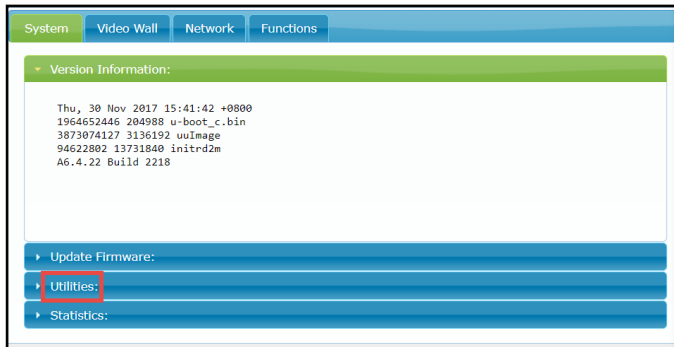
Utilities Tab

3. Click on the **Factory Reset** button.

4. The unit (**Transmitter** or **Receiver**) will reboot, resetting the unit to factory settings.

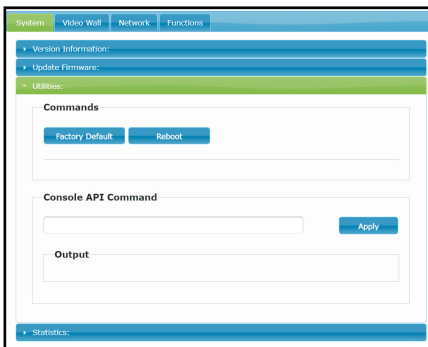
Rebooting the Transmitter and/or Receiver

1. From the **System** screen, click on the **Utilities** tab.



Utilities Tab

2. The **Utilities** tab will appear.

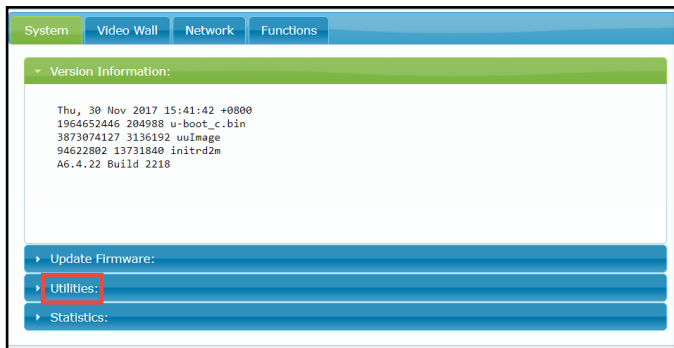


Utilities Tab

3. Click the **Reboot** button.
4. The unit (**Transmitter** or **Receiver**) will reboot.

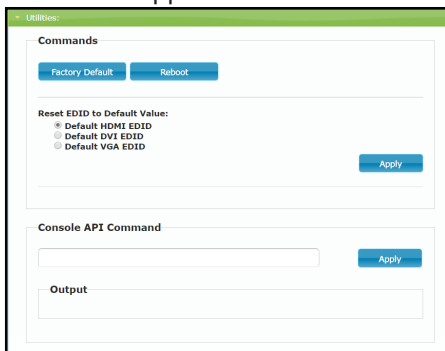
EDID Settings (Receiver Only)

1. From the **System** screen, click on the **Utilities** tab.



Utilities Tab

2. The **Utilities** tab will appear.

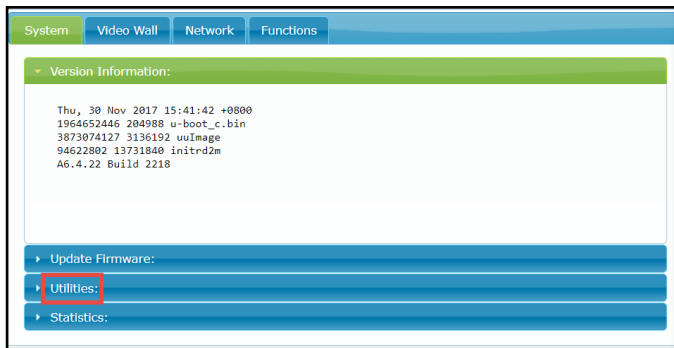


Utilities Tab

3. Under the **Reset EDID to Default Value**, select a **Default EDID** value:
 - **Default HDMI EDID:** The Receiver will use the connected HDMI Display Device's EDID setting for the default settings.
 - **Default DVI EDID:** The Receiver will use the connected DVI Display Device's EDID setting for the default settings.
 - **Default VGA EDID:** The Receiver will use the connected VGA Display Device's EDID setting for the default settings.
4. Click the **Apply** button to apply the EDID changes.

Entering a Console API Command

1. From the **System** screen, click on the **Utilities** tab.



Utilities Tab

2. The **Utilities** tab will appear.

The screenshot shows a web interface titled "Utilities:" with a green header. It contains three main sections: "Commands" with "Factory Default" and "Reboot" buttons; "Reset EDID to Default Value:" with radio buttons for "Default HDMI EDID" (selected), "Default DVI EDID", and "Default VGA EDID", and an "Apply" button; and "Console API Command" with an input field, an "Apply" button, and an "Output" text area below it.

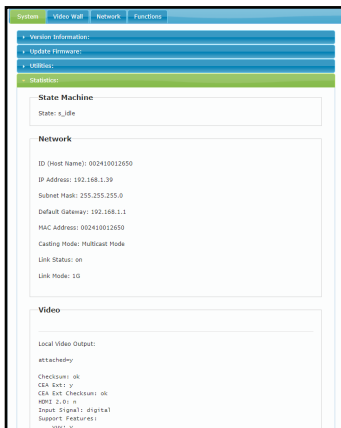
Utilities Tab

3. Enter an API command in the **Console API Command** field.
4. Click the **Apply** button to execute the API command. The **Output** field will return command values.

Note: A note will appear at the top of the screen indicating that the command was applied.

Viewing Statistics

1. From the **System** screen, click on the **Statistics** tab.
2. The **Statistics** tab will appear listing statistics for the selected unit:
 - **State Machine:** List the current state of the unit (Transmitter or Receiver)
 - **Network:** Displays the current network settings.
 - **Video:** Displays the current EDID settings and local video output.

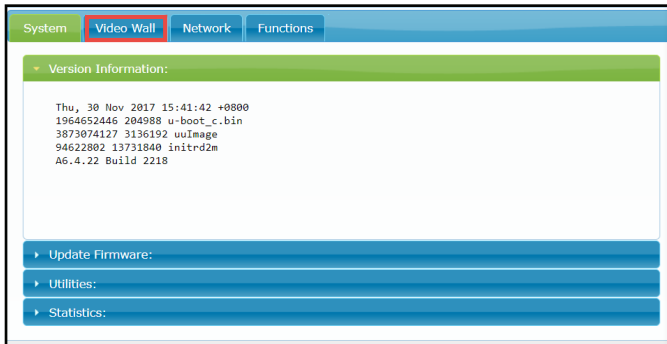


Statistics Tab

Basic Video Wall Configuration

Note: The Video Wall function can support a maximum of 9x9 wall configuration or a total of 81 receivers (where network resources allow).

1. From the **System** screen, click on the **Video Wall** tab, along the top of the screen.



Video Wall Tab

2. The **Video Wall** screen will appear.
3. The following options will be under the **Basic Setup** section on the screen:
 - **Bezel and Gap Compensation:** Allows you to fill out the dimensions of the first monitor in the video wall.

Basic Setup:

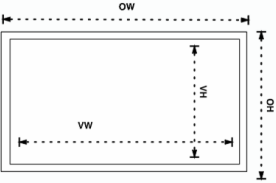
Bezel and Gap Compensation

OW:

OH:

VW:

VH:



UNIT: 0.1mm

The diagram illustrates a rectangular monitor with an outer frame and an inner screen area. Dashed lines indicate the dimensions: OW (Outside Width) is the total width including the bezel; OH (Outside Height) is the total height including the bezel; VW (View Width) is the width of the inner screen; and VH (View Height) is the height of the inner screen. The bezel and gap compensation parameters are represented by the difference between the outer and inner dimensions.

Bezel and Gap Compensation Section

- **OW:** Enter the outside width of the first monitor in millimeters.
- **OH:** Enter the outside height of the first monitor in millimeters.
- **VW:** Enter the view width (width of the screen) of the first monitor in millimeters.
- **VH:** Enter the view height (height of the screen) of the first monitor in millimeters.
- **Wall size and Position Layout:** Allows you to enter the number of monitors used in the video wall.

Wall Size and Position Layout

Vertical Monitor Count:

Horizontal Monitor Count:

Row Position:

Column Position:

UNIT: Panel

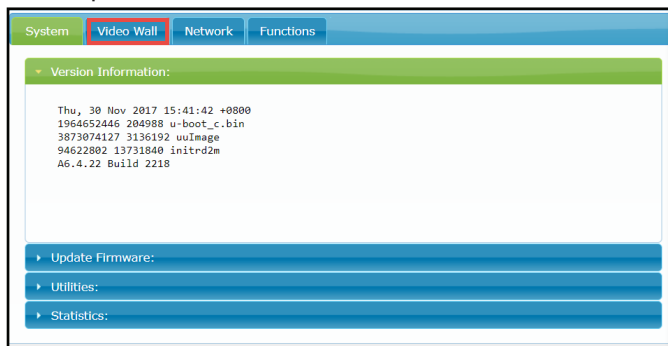
Wall Size and Position Layout Section

- **Vertical Monitor Count:** Enter the number of monitors that are in the video wall setup along the vertical plain (side by side).
- **Horizontal Monitor Count:** Enter the number of monitors that are in the video wall setup along the horizontal plane.
- **Row Position:** Allows you to assign a number to the monitor in the first row position. For example the monitor in the first row should have the number 0 and the second monitor should be 1.
- **Column Position:** Allows you to assign a number to the monitor in the first column position. For example the monitor in the first column should have the number 0 and the second monitor should be 1.
- **Show OSD:** Selecting this check box will place a number of each of the connected displays.

4. On the **Apply To:** field, Select the device(s) you want to apply the video wall settings to.
5. Click the **Apply** button to apply the settings to the selected device(s).

Advanced Video Wall Configuration

1. From the **System** screen, click on the **Video Wall** tab, along the top of the screen.






Video Wall Tab

2. Select the **Advance Setup** section on the screen.
3. The **Choose Control Target** section will appear.



Choose Control Target Section

4. Click the **Show OSD** check box to place a number of each of the connected displays.
5. Use the **Choose Control Target** controls to select all connected monitors or to select a specific row or column .

Icon	Description
	Select all connected monitors
	Select a specific column
	Select a specific row

6. When you have selected a control target you can adjust the following on the **Control Options** section:

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

Step 2: Control Options

Reset to Basic Setup:

Stretch Type:

Clockwise Rotate:

Screen Layout (Row x Column): X

Row Position:

Column Position:

Horizontal Shift:

Vertical Shift:

Horizontal Scale Up (N pixels/column_count):

Vertical Scale Up (N pixels/row_count):

Console API Command:

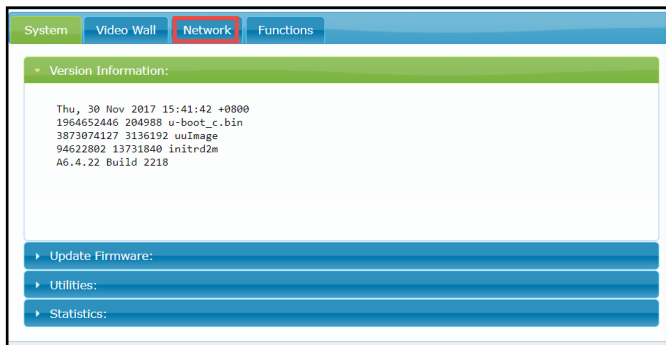
Control Options Section

- **Reset to basic Setup:** Allows you to revert back to the basic setup settings.
- **Stretch Type:** Allows you to select a image stretch type e.g. Fit In (fit to screen).
- **Clockwise Rotation:** Allows you to rotate the image clockwise.

-
- **Screen layout row x column:** Allows you to enter the number of monitor per row and column e.g. 4 x 4.
 - **Row Position:** Allows you to indicate the row position of the Transmitter.
 - **Column Position:** Allows you to indicate the column position of the Transmitter.
 - **Horizontal Shift:** Allows you to shift the selected display horizontally.
 - **Vertical Shift:** Allows you to shift the selected display vertically.
 - **Horizontal Scale Up:** Allows you to scale the display up by pixels/column count.
 - **Vertical Scale Up:** Allows you to scale the display up by pixels/row count.
7. Click the corresponding **Apply** button after you have made a change to specific field.

Setting an IP Address

1. From the **System** screen, click on the **Network** tab along the top of the screen.



Network Tab

2. The **Network** screen will appear.

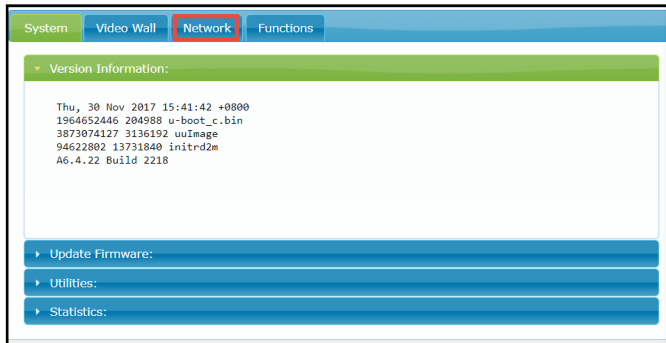
The screenshot shows a web-based configuration interface for a device. At the top, there are four tabs: 'System', 'Video Wall', 'Network', and 'Functions'. The 'Network' tab is active. Below the tabs, there are two main sections: 'IP Setup' and 'Casting Mode'.
In the 'IP Setup' section, there is a label 'IP Mode:' followed by three buttons: 'Auto IP', 'DHCP', and 'Static'. Below this are three input fields: 'IP Address' with the value '192.168.1.39', 'Subnet Mask' with '255.255.255.0', and 'Default Gateway' with '192.168.1.1'. An 'Apply' button is located at the bottom right of this section.
In the 'Casting Mode' section, there are two buttons: 'Multicast' and 'Unicast'. Below them is a checkbox labeled 'Auto select USB operation mode per casting mode (recommended)'. An 'Apply' button is at the bottom right of this section.

Network Screen

3. On the **IP Setup** section, pick an IP Mode from the **IP Mode** field:
 - **Auto IP:** The system will automatically assign an IP Address to the unit.
 - **DHCP:** The DHCP server will automatically assign an IP Address to the unit.
 - **Static:** Allows you to manually assign an IP Address to the unit.
4. If you selected **Static**, enter the IP Address, Subnet Mask, and Default Gateway in the corresponding fields.
5. Click the **Apply** button to apply IP changes.

Changing Casting Mode

1. From the **System** screen, click on the **Network** tab along the top of the screen.



Network Tab

2. The **Network** screen will appear.

System Video Wall **Network** Functions

IP Setup

IP Mode: Auto IP DHCP Static

IP Address: 192.168.1.39

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

Apply

Casting Mode

Multicast Unicast

Auto select USB operation mode per casting mode (recommended)

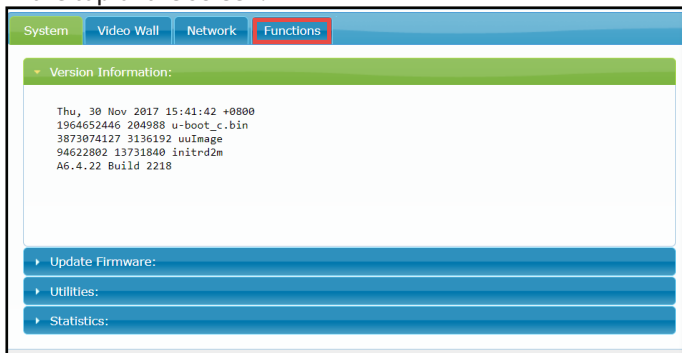
Apply

Network Screen

- Under the **Casting Mode** section on the screen, select either:
 - Multicast:** Send data to multiple sources.
 - Unicast:** Send data to a single source.
- It is also recommended that you select the **AutoSelect USB Operation Mode** checkbox.
- Click the **Apply** button.
- Reboot the unit (**Transmitter** or **Receiver**) in order to apply the new settings.

Configuring Video Over IP

1. From the **System** screen, click on the **Functions** tab, along the top of the screen.



Functions Tab

2. The **Functions** screen will appear.

3. On the **Video Over IP** section on the screen, the following options will be listed:

Video over IP

Enable Video over IP

Enable Video Wall

Copy EDID from this Video Output (Default disabled under multicast mode)

Scaler Output Mode: Full HD 1080p60

Timeout for Detecting Video Lost: 10 seconds

Turn off screen on video lost

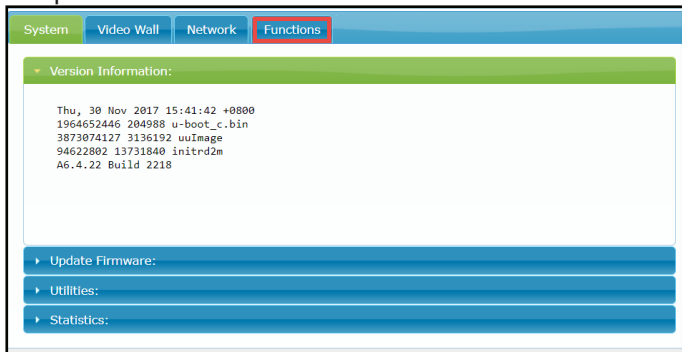
Apply

Video Over IP Section

- **Enable Video Over IP:** Allows you to enable or disable the video over IP function.
 - **Enable Video Wall:** Allows you to enable or disable the video wall function.
 - **Maximum Bit Rate (Receiver only):** Allows you to select the number of bits per second that are transferred across a network.
 - **Maximum Frame Rate:** Allows you to select a Frame Rate percentage. Use the slider to select a percentage min = 2% max = 100%
4. Click the **Apply** button and reboot the **Receiver** to apply the changes.

Configuring USB Over IP

1. From the **System** screen, click on the **Function** tab, along the top of the screen.



Functions Tab

2. The **Functions** screen will appear.
3. On the **USB Over IP** section on the screen, the following options will be listed:

USB over IP

Enable USB over IP

Operation Mode:

Auto select mode (Recommended, choose per network casting mode)

Active on link (Unicast network's default mode)

Active per request (Multicast network's default mode)

Compatibility Mode:

K/M over IP (Uncheck when mouse/keyboard/touch panel not working as expected)

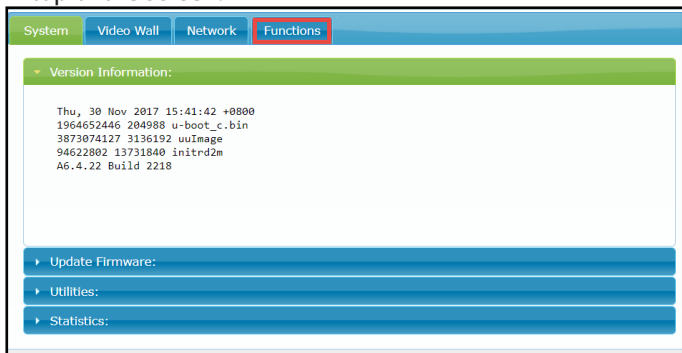
Apply

USB over IP Section

- **Enable USB Over IP:** Allows you to enable or disable the USB Over IP function.
 - **Operation Mode**
 - **Auto Select Mode:** This setting will automatically select the appropriate operation mode multicast or unicast.
 - **Active On Link:** Use if using unicast mode.
 - **Active Per Request:** Use if using multicast mode.
 - **Compatibility Mode**
 - **Mouse Not Responding Well:** Select this check box if the connected USB mouse is responding slowly.
 - **K/M Over IP:** Deselect the check box if the connected mouse, keyboard, and touch pad are not working.
4. Click the **Apply** button and reboot the unit (**Transmitter** or **Receiver**) to apply changes.

Configuring Serial Over IP

1. From the **System** screen, click on the **Function** tab, along the top of the screen.



Functions Tab

2. The **Functions** screen will appear.
3. On the **Serial Over IP** section on the screen, the following options will be listed:

Serial over IP

Enable Serial over IP

Operation Mode:

Type 1 (Need extra control instruction. For advanced usage.)

Type 2 (Recommended. Dumb redirection.)

Type 1 guest mode

Type 2 guest mode

Baudrate Setting for Type 2:

Baudrate: 115200

Data bits: 8

Parity: None

Stop bits: 1

Apply

Serial over IP Section

- **Enable Serial Over IP:** Allows you to enable or disable the serial over IP function.
- **Operation Mode:** Allows you to select an operation mode type (Type 1, Type 2, Type 1 Guest, or Type 2 Guest)
- **Baud rate Settings**
 - **Baud rate:** Allows you to select a baud rate (speed at which data is transmitted), from the drop down list.
 - **Data Bits:** Select the number of bits that represent one character of data (8, 7, 6, or 5).
 - **Parity:** Select the when error checking occurs while transmitting data (none, odd, or even).
 - **Stop Bits:** Select a Stop Bit from the drop down list (1 or 2). A stop bit is an error check used to check a baud rate or byte length mismatch.

4. Click the **Apply** button and reboot the unit (**Transmitter** or **Receiver**) to apply changes.

Frequency Asked Questions (FAQ)

1. If the units see each other
 - Check to see if Unicast or Multicast modes are selected.
2. If the units are having issues communicating with one another:
 - Check to make sure the network supports both Jumbo Frames and IGMP and that these setting are enabled.
3. If you are using Multicast Mode and not receiving audio through the Microphone port.
 - You will have to change to Unicast mode for the microphone port to work. See the [Changing Casting Mode](#) section for further details.

Warranty Information

This product is backed by a two-year warranty.

For further information on product warranty terms and conditions, please refer to www.startech.com/warranty.

Limitation of Liability

In no event shall it be the liability of StarTech.com Ltd. and StarTech.com USA LLP (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

Hard-to-find made easy. At StarTech.com, that isn't a slogan. It's a promise.

StarTech.com is your one-stop source for every connectivity part you need. From the latest technology to legacy products — and all the parts that bridge the old and new — we can help you find the parts that connect your solutions.

We make it easy to locate the parts, and we quickly deliver them wherever they need to go. Just talk to one of our tech advisors or visit our website. You'll be connected to the products you need in no time.

Visit www.startech.com for complete information on all StarTech.com products and to access exclusive resources and time-saving tools.

StarTech.com is an ISO 9001 Registered manufacturer of connectivity and technology parts. StarTech.com was founded in 1985 and has operations in the United States, Canada, the United Kingdom and Taiwan servicing a worldwide market.

Reviews

Share your experiences using StarTech.com products, including product applications and setup, what you love about the products, and areas for improvement.

StarTech.com Ltd.

45 Artisans Cres.
London, Ontario
N5V 5E9
Canada

FR: fr.startech.com

DE: de.startech.com

StarTech.com LLP

2500 Creekside Pkwy.
Lockbourne, Ohio
43137
U.S.A.

ES: es.startech.com

NL: nl.startech.com

StarTech.com Ltd.

Unit B, Pinnacle
15 Gowerton Rd.,
Brackmills
Northampton
NN4 7BW
United Kingdom

IT: it.startech.com

JP: jp.startech.com