4x1 Switcher for HDMI w/HDR

4K 60 Hz 4:4:4
HDCP 2.2 & Auto Switching

User Manual
Release A2
Features

- Routes up to four Ultra Hi-Def sources to one Ultra HD display
- Supports resolutions up to 4K DCI-Cinema (4096 x 2160 at 60 Hz, 4:4:4), 4K Ultra HD (3840 x 2160 at 60Hz, 4:4:4), 1080p Full HD, & 1920x1200 (WUXGA)
- Supports HDCP 2.2 and 1.4
- Supports HDR (High Dynamic Range) 10-bit Deep Color at 4K 60 Hz 4:2:0 and 4K 24 Hz 4:4:4
- Supports 12-bit Deep Color at 1080p 60 Hz 4:4:4
- 3DTV pass-through
- Lip Sync pass-through
- Advanced EDID and HDCP Management via Web Server Interface for rapid integration of sources and display
- Supports uncompressed LPCM digital audio up to 7.1 channels
- Supports up to 7.1 channels of HBR (High Bit Rate) digital audio including Dolby Atmos®, Dolby® TrueHD, DTS:X™, and DTS-HD Master Audio™
- Supports the use of DVI sources and DVI displays up to 1080p Full HD and 1920x1200 (WUXGA), with HDMI-to-DVI adapters (not included)
- Configurable Automatic Input Switching selects the most recent connected or powered-up source
- Front Panel Push button Input Selector routes one of the 4 connected sources to the display, or “Blocks” (turns off) the input
- RS-232 Serial interface for use with an automation control system
- IP control via Telnet, UDP, and the built-in web server interface
- IR remote control
- Small surface-mountable IR Extender module allows the switcher to be hidden away behind the display or in the equipment closet
- Gefen Syner-G™ software’s Discovery and Show-Me features simplify initial IP configuration
- In-field firmware update via Web Server Interface
- Long Reach Power (LRP) provides 500 mA at 5V on pin 18 of HDMI output. Enables select extender devices to be powered through their HDMI input port
- Locking power connector ensures reliable operation
- Low-profile, surface-mountable enclosure can be surface mounted, placed on a shelf, or hidden away behind the display
Packing List

The Ultra HD 600 MHz 4x1 Switcher for HDMI w/ HDR ships with the items listed below. The packing contents of the Sender and Receiver unit are listed below. If any of these items are not present in the box when you first open it, immediately contact your dealer or Gefen.

- 1 x Ultra HD 600 MHz 4x1 Switcher for HDMI w/ HDR
- 1 x 5V Power Supply w US/EU/UK/AU plugs
- 1 x IR Extender Module (EXT-RMT-EXTIRN)
- 1 x Hand-held IR Remote
- 2 x Surface Mounting L-Brackets
- 4 x M3 6 mm Machine screws for mounting the L-Brackets to unit
- 2 x 6-32 5 mm Machine screws for mounting the unit to Gefen EXT-RACK-1U-GRY (available separately)
- 4 x Self-Adhesive Rubber Feet
- 1 x Quick-Start Guide
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Front Panel

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Select</td>
<td>Press and release this button to switch between each of the inputs and the Off indicator.</td>
</tr>
<tr>
<td>2</td>
<td>Input Indicators (1 - 4)</td>
<td>Each of these LED indicators represent an input on the rear panel of the switcher. When an input is selected, using the Select button, it will glow bright green. If the selected source is not active, then the indicator will glow amber.</td>
</tr>
<tr>
<td>3</td>
<td>Off</td>
<td>When this LED indicator is selected, it will glow bright green. In this state, none of the inputs will be active.</td>
</tr>
<tr>
<td>4</td>
<td>Reset</td>
<td>Press and hold this button for 3 seconds to reset the switcher to factory-default settings.</td>
</tr>
<tr>
<td>5</td>
<td>IR</td>
<td>This IR sensor receives signals from the included IR remote control unit.</td>
</tr>
<tr>
<td>6</td>
<td>Power</td>
<td>This LED indicator will glow bright blue when the included 5V DC power supply is connected from the switcher to an available electrical outlet.</td>
</tr>
<tr>
<td>ID</td>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>----</td>
<td>------------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>1</td>
<td>IR In/Ext</td>
<td>Connect an IR extender (Gefen part no. EXT-RMT-EXTIRN) or an electrical IR cable from an automation system to this port.</td>
</tr>
<tr>
<td>2</td>
<td>Output (LRP)</td>
<td>Connect a locking HDMI cable from this HDMI port to an Ultra HD display.</td>
</tr>
<tr>
<td>3</td>
<td>In 1 - In 4</td>
<td>Connect a locking HDMI cable from an Ultra HD source to each of these HDMI ports.</td>
</tr>
<tr>
<td>4</td>
<td>RS-232</td>
<td>Connect an RS-232 cable from this port to an RS-232 device. See Using Telnet, UDP, and RS-232 (page 48) for more information.</td>
</tr>
<tr>
<td>5</td>
<td>IP Control</td>
<td>Connect an Ethernet cable between this jack and a LAN to use IP control. See Using Telnet, UDP, and RS-232 (page 48) for more information.</td>
</tr>
<tr>
<td>6</td>
<td>5V DC</td>
<td>Connect the included locking 5V DC power supply to this power receptacle.</td>
</tr>
</tbody>
</table>
### IR Remote Control

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Input buttons (1 - 4)</td>
<td>Press these buttons to select the desired input when performing routing operations. Each button corresponds to an In port (1 - 4) on the rear panel of the switcher.</td>
</tr>
<tr>
<td>2</td>
<td>Battery compartment (shown open)</td>
<td>Accepts two 1.5V AAA-type batteries. See the next page for more information.</td>
</tr>
<tr>
<td>3</td>
<td>DIP switches</td>
<td>Sets the IR channel of the IR remote control. In order for the IR remote control to communicate with the switcher, both the IR remote control and the switcher must be set to the same IR channel. See System Settings (page 39) for information on setting the IR channel of the switcher.</td>
</tr>
</tbody>
</table>
Installing the Batteries

1. Remove the back cover the IR remote control unit.
2. Insert two 1.5V AAA-type batteries, as shown, within the battery compartment.
3. Replace the back cover.

**Warning!**
Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
Setting the IR Channel

Use the following DIP switch settings to set the IR channel of the IR remote control. In order for the included IR remote control to communicate with the matrix, the IR remote control must be set to the same channel as the matrix. See System Settings (page 39) for more information.

Channel 1 (default):
- DIP1 = OFF
- DIP2 = OFF

Channel 2:
- DIP1 = ON
- DIP2 = OFF

Channel 3:
- DIP1 = OFF
- DIP2 = ON

Channel 4:
- DIP1 = ON
- DIP2 = ON
Connection Instructions

 ► Video

1. Use an HDMI cable to connect up to four Ultra HD sources to the inputs (In 1 - In 4) on the rear panel of the switcher.

2. Connect the included locking HDMI cable to the Output 1 (LRP) port on the rear panel of the switcher. The HDMI cable can then be connected in any of the following ways:
   • Connect the HDMI cable to an Ultra HD display.
   • Connect the HDMI cable to another EXT-UHD600 switcher or splitter, for cascading purposes.

Important

Cable quality is critical when handling 600 MHz HDMI signals. We highly recommend Gefen Locking HDMI cables. They have been designed and tested to work at 600 MHz and reliably transport the full 18 Gbps throughput of HDMI 2.0.

 ► Power

3. Connect the included 5V DC locking power supply to the 5V DC power receptacle on the rear panel of the switcher.

4. Connect the power supply to an available electrical outlet.
Sample Application Diagram
Using the Front Panel Buttons

The front panel of the Ultra HD 600 MHz 4x1 Switcher for HDMI w/HDR has a set of four LED indicators which are associated with each input on the rear panel of the switcher. Press the Input button to cycle through each of the inputs.

1. When the switcher is powered-on for the first time, input 1 will automatically be selected.

2. Press the Select button to select the next input. In this case, input 2.

3. Consecutively press the Select button until the desired input is selected. Once input 4 is selected, pressing the Select button again will return the switcher to input 1.
Using the IR Remote Control

The included IR remote control unit can also be used to switch between each input. The front panel of the Ultra HD 600 MHz 4x1 Switcher for HDMI w/HDR has a set of four (4) LED indicators which are associated with each input on the switcher.

1. When the switcher is powered-on for the first time, Input 1 (In 1) will automatically be selected.
2. Point the included IR remote control unit at the IR sensor on the top panel. If an IR extender is being used, then both IR sensors will be used to receive IR signals.
3. Each button on the IR remote control unit represents an input. Press the desired source button on the IR remote control to switch to that input.
The 4x1 Switcher for HDMI w/HDR includes a built-in web interface. We recommend that the web interface be used to control the switcher as it provides easy management of all features used by the switcher.

► Logging In

1. Launch your favorite web browser.
2. In the address bar, type the IP address of the switcher.
3. The login page will be displayed.
4. Select the user from the **Username** drop-down list.

- **Operator**
  The Operator username provides restricted access to the web interface. This username allows access to both the Routing and Status tabs.

  The default password for the Operator user name is **Operator**. All passwords are case-sensitive. For information on changing the default password, see Configuring Network Settings (page 33).
Basic Operation

- **Administrator**
  The Administrator username provides full access to all features within the web interface.

  The default password for the Administrator user name is Admin. All passwords are case-sensitive. For information on changing the default password, see Configuring Network Settings (page 33).

5. Enter the password for the selected username.
6. Click the **Login** button.
7. The **Routing** tab will be displayed.

---

**Administrator vs Operator**

As mentioned earlier, logging in as Operator provides restricted access to many of the available features within the web interface. This is summarized in the table below:

<table>
<thead>
<tr>
<th>Administrator</th>
<th>Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Access to all features</td>
<td>• Access to <strong>Routing</strong> and <strong>Status</strong> tabs, only.</td>
</tr>
<tr>
<td></td>
<td>• No access to the <strong>Auto Switch</strong> button under the <strong>Routing</strong> tab.</td>
</tr>
</tbody>
</table>
Tabs and Sub-tabs

The web interface is organized into tabs, in the top-portion of the screen. Clicking on a tab will display a different screen.

The Setup and Manage EDID tab have their own set of tabs, which we will refer to as "sub-tabs", as shown below.

Buttons

Several screen contain buttons which allow the selection of a particular mode or setting. Click the button for the desired setting. Buttons that are red represent a setting that is "turned on". If the button is pale-yellow, then the feature is "turned off":

- Example of a feature is "turned on"

- Example of a feature that is "turned off"
• If a button is light-gray or dark-gray (disabled), then this means that the setting is not available. This usually requires that another setting must be enabled before setting that feature.

For example, note that both the Remote UDP Access button and the UDP Port field are disabled in the illustration, below:

![UDP Settings](image)

In order to change either of these settings, UDP Access must be enabled.

After clicking the Enable button, next to UDP Access, the button turns red and reads “Enabled.” Since UDP Access is now enabled, we can now enable or disable Remote UDP Access and/or change the UDP Port number:

![UDP Settings](image)
The **Routing** tab will be the first tab to automatically be displayed after logging in to the web interface.

1. Click the desired input from the list of icons. Once clicked, the icon background will turn orange, indicating that it is the currently-active input.

2. To prevent audio/video from being output, click the **OFF** button.

3. The **Auto Switch** feature is disabled by default. Click the **ON** button to enable this feature. When enabled, the device will automatically switch to the input that is receives a hot-plug detect.

4. See **Icon Selection (page 24)** for information on changing the icon representation of each “input”.

![Image of the Routing tab interface with the OFF button highlighted.](image)
Input and Output Status

The Status tab provides video and audio information for all inputs and outputs.

1. Click the Status tab within the built-in web interface.
2. Information on each input is listed in the top portion of the screen.
3. Information on each output is listed in the bottom portion of the screen.

The table below outlines the information that is available for each section:

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color depth</td>
<td>Rsense</td>
</tr>
<tr>
<td>Color space</td>
<td>HDP</td>
</tr>
<tr>
<td>HDCP</td>
<td>HDCP</td>
</tr>
<tr>
<td>Active Signal</td>
<td>Video mode</td>
</tr>
<tr>
<td>Vertical resolution</td>
<td></td>
</tr>
<tr>
<td>Horizontal Resolution</td>
<td></td>
</tr>
<tr>
<td>Progressive / interlaced</td>
<td></td>
</tr>
<tr>
<td>Refresh rate</td>
<td></td>
</tr>
<tr>
<td>Video mode</td>
<td></td>
</tr>
<tr>
<td>Audio Input Format</td>
<td></td>
</tr>
<tr>
<td>HDR</td>
<td></td>
</tr>
</tbody>
</table>
Changing Input and Output Names

By default, the names of the output is **Output**. The default names for each input are **Input 1 - Input 4**. Each of these names can be changed, as desired, to suit the type of device that is connected to the input or output. This allows easy reference when performing routing operations.

1. Click the **Setup** tab within the built-in web interface.

2. Click the **Names** sub-tab.

3. Click in the field of the desired output or input to be changed.

4. Once all changes have been made, click the **Save** button.

5. The new names will be displayed within the **Routing** tab.
**HPD Control**

A Hot-Plug Detect (HPD) is a +5V signal that is sent from the source to the sink, once it is connected using an HDMI cable. After receiving the signal, the sink device sends a +5V HPD signal back to the source. HPD is used to begin communication between source and sink. Within the web interface, an HPD pulse can manually be sent to the source device from the selected input.

1. Click the **Setup** tab within the built-in web interface.
2. Click the **HPD Control** sub-tab.
3. Click the **Pulse** button for the desired input. Click the **Pulse All Inputs** button to send an HPD signal from all inputs.
HDCP

This feature allows HDCP content to either be passed-through or rejected on each input. Outputs can either follow the input status or can be set to always encode HDCP. Note that using the “Reject” feature, on an input, does not decrypt HDCP content.

1. Click the Setup tab within the built-in web interface.
2. Click the HDCP sub-tab.
3. For inputs, select the desired button next to the input.
   - **Reject** - Does not allow HDCP content to be passed through. Click the Reject All button to set all inputs to Reject.
   - **2.2** - Click this button if the sink device supports HDCP 2.2. Click the All 2.2 button to set all inputs to 2.2.
   - **1.4** - Click this button if the sink device only supports HDCP 1.4. Click the All 1.4 button to set all inputs to 1.4.
4. For the output, select either **Follow Input** or **Always Encode**.

- **Follow Input** - Click this button to have the output follow the setting used on the input. Click the **Follow All** button to set all outputs to **Follow Input**.

- **Always Encode** - Encodes the output signal with HDCP, regardless of the input signal. Use this feature for displays that require HDCP-encoded content. Click the **All Encode** button to set all outputs to **Always Encode**.
Icon Selection

Use the **Icon Selection** tab to select the desired icons which best represent each source device in the system.

1. Click the **Setup** tab within the built-in web interface.
2. Click the **Icon Selection** sub-tab.
3. Click the arrow, next to the icon, to change its appearance. Each input provides the same icon choices.
Setting the EDID Mode

The **EDID Mode** tab allows the desired EDID mode (internal preset, external, or custom) to be set for each input.

1. Click the **Manage EDID** tab within the built-in web interface.
2. Click the **EDID Mode** sub-tab.
3. Select the desired EDID mode for each input using the drop-down list.

If the **EDID Mode** is set to **External**, then the name of the downstream EDID (device) will appear under the **EDID Name** column, as shown:
Using a Custom EDID

The User-defined setting is used to store a custom EDID in the selected input. To use a custom EDID, follow the instructions below:

1. Select User-defined from the drop-down list of the desired input.

2. Copy or upload an EDID to the input that is using the Custom mode. See one of the following sections for more information on copying or uploading EDID data:
   - Copying EDID Data (page 27)
   - Uploading and Downloading EDID Data (page 30)

3. Set the EDID Lock mode to either Locked or Unlocked:
   - Locked
     Prevents the EDID from being changed on the input.
   - Unlocked
     Allows the EDID to be changed.

4. The name of the custom EDID will appear under the EDID Name column.
The **EDID Copy** tab allows an EDID to be copied from an input or output (sink device) to any input. In order to copy an EDID to an input, the input must be set to **User-defined** mode and then unlocked. See [Setting the EDID Mode](page 25) for more information.

1. Click the **Manage EDID** tab within the built-in web interface.
2. Click the **EDID Copy** sub-tab.
3. Click the button of the output or input from the **Select EDID to Copy** section. Only one input can be selected at a time.
4. After an input or the output is selected, click the button for the corresponding input where the EDID will be copied. One or more inputs can be selected at a time.

5. Click the **Copy** button. The **Copy** can only be pressed when both the input (the source) and the output (destination) are selected.

6. The EDID copy process is complete. Repeat steps 3 - 5 as desired.
The **EDID Info** tab allows the EDID information, from an input or sink device, to be displayed.

1. Click the **Manage EDID** tab within the built-in web interface.
2. Click the **EDID Info** sub-tab.
3. Select the desired input or output from the **Choose EDID** drop-down list.

4. The EDID information for the selected input or output will be displayed.
Uploading and Downloading EDID Data

The Upload / Download tab allows EDID data from an input, output, or one of the internal EDID presets, to be downloaded and saved as a file on your computer. An EDID file can also be uploaded to any (unlocked) input.

► Downloading an EDID

1. Click the Manage EDID tab within the built-in web interface.
2. Click the Upload/Download sub-tab.
3. Select the desired input, output, or internal EDID preset to be downloaded using the Select EDID File drop-down list.
4. Click the Download button.
5. The following dialog will be displayed:

![Image of the dialog box]

6. Click the **Save File** button to save the EDID file to your computer.

   - **Mac OS X**
     The file will automatically be saved under
     Macintosh HD\Users\[username]\Downloads.

   - **Windows OS**
     The file will be saved under
     C:\Users\[username]\Downloads.
Uploading an EDID

1. Click the **Manage EDID** tab within the built-in web interface.
2. Click the **Upload/Download** tab.
3. Select the input where the EDID file will be uploaded.
4. Set the input to **Custom** mode. See Setting the EDID Mode (page 25) for more information.
5. Click the **Browse...** button under **Upload EDID** section.
6. The **File Upload** dialog will be displayed.
7. Select the EDID file from your computer. The EDID file must be in **.bin** format. After the file is selected, click the **OK** button on the dialog box.
8. Select the input where the EDID will be uploaded using the **Select Destination** drop-down list. In order for an input to be selected, it must be unlocked and set to **Custom**. See Setting the EDID Mode (page 25) for more information.
9. Click the **Upload** button.
Configuring Network Settings

Once the switcher is configured on the network using Gefen Syner-G, the network settings can be changed within the built-in web interface. To access the network settings, click the Network tab in the built-in web interface.

When changing any network setting, click the Save button at the bottom of the page. To revert network settings to factory default, click the Set Network Defaults button.

► IP Settings

1. Set the network mode by clicking the Static or DHCP button.

2. If set to Static mode, then enter the IP address, subnet mask, and gateway address in the IP Address, Subnet, and Gateway fields, respectively. If set to DHCP mode, the DHCP server will assign these values.

3. Enter the HTTP listening port in the HTTP Port field.
TCP / Telnet Settings

For details on configuring TCP, see Using Telnet, UDP, and RS-232 (page 48).

- **TCP Access**: Click the **Enable** button to allow Telnet access to the switcher. Otherwise, click the **Disable** button.

- **TCP Port**: Enter the TCP listening port in this field.

- **Login Message on Connect**: Click the **Show** button to display the welcome message at the beginning of a Telnet session. Otherwise, click the **Hide** button.

- **Require Password on Connect**: Click the **Enable** button to require password credentials at the beginning of a Telnet session.
• **User Name**: This field is static and cannot be changed. Telnet sessions are restricted to **Admin** users.

• **Old Password**: Enter the old (current) password in this field. The factory-default password is `^ Ç à á â`.

• **New Password**: Enter the new password in this field.

• **Confirm New Password**: Confirm the new password by entering the new password in this field.

---

**Information**

Note that all passwords are case-sensitive.

---

![Web Interface Screenshot](image-url)
UDP Settings

For details on configuring UDP, see Using Telnet, UDP, and RS-232 (page 48).

- **UDP Access**: Click the *Enable* button to use the UDP protocol with the switcher. Otherwise, click the *Disable* button.

- **UDP Port**: Enter the TCP listening port in this field.

- **Remote UDP Access**: Click the *Enable* button to set the remote UDP address and UDP listening port. This feature only needs to be *enabled* if feedback to the switcher is required. Otherwise, this feature can be *disabled*.

- **Remote UDP IP Address**: Enter the remote UDP IP address in this field.

- **Remote UDP Port**: Enter the remote UDP listening port in this field.
Web Login Settings

- **Username:** To change the password for the Administrator, click the **Administrator**. Otherwise, click the **Operator** button.

- **New Password:** Enter password for the selected username (above), in this field. Passwords are case-sensitive.

- **Old Password:** Enter the old (current) password in this field. Passwords are case-sensitive.

- **Confirm New Password:** To confirm the new password, re-enter the new password in this field. Passwords are case-sensitive.

The default password for the **Administrator** username is `Admin`.

The default password for the **Operator** username is `Operator`.

![Web Login Settings](image)

### Basic Operation

The Web Interface
Discovery Protocol Settings

- **Enable Discovery**: Click the **Enable** button to enable “discovery” mode. Otherwise, click the **Disabled** button. In order for Gefen Syner-G to discover the switcher on a network, this feature must be **enabled**.

- **Find Your Device**: Click the **Show Me** button to physically locate the switcher on a network. In order for the **Show Me** button to be available, the **Enable Discovery** button must be set to **Enable**. When the **Show Me** button is clicked, the button text will change to **Hide Me** and all the LED indicators on the front panel will flash.

- **Discovery Read Only**: When set to **Read Only**, the IP settings for the switcher will be displayed by Syner-G but they cannot be changed. In order to display and change IP settings from within Gefen Syner-G, click the **Read / Write** button.

- **Product Description**: EXT-UHD600-41 is the default product description. This name will be used to identify the switcher when using the Gefen Syner-G software.
System Settings

The **System** tab provides controls for various other switcher features. Each of these controls is described below.

- **Main RS-232 Feedback**

  By default, RS-232 feedback is set to **On**, meaning all command will send a response.

  1. Click the **Off** button to disable RS-232 feedback.
  2. Click the **On** button to enable RS-232 feedback.

- **Download Current Configuration to PC**

  Saves the current switcher configuration to a file on your computer.

  1. Click the **Download** button.
  2. The following dialog will be displayed (see following page).
3. Click the **Save File** radio button, then click **OK** to save the configuration file to your computer.

   - **Mac OS X**
     The file will automatically be saved under
     Macintosh HD\Users\[username]\Downloads

   - **Windows OS**
     The file will be saved under
     C:\Users\[username]\Downloads

**► Restore / Upload Configuration File**

Uploads the selected switcher configuration, from a file on your computer, to the switcher.

1. Click the **Browse...** button.
2. Select the desired configuration file from your computer. After the file has been selected, the filename will appear next to the **Browse**... button.

3. Click the **Restore** button to upload the file.

► **Firmware Update**

Uploads and applies the latest firmware file to the switcher.

1. Download the latest firmware from the Gefen web site.

2. Click the **Browse**... button.

3. Select the firmware file on your computer.

   The firmware must be a .bin file and will have the following naming convention: `EXT-UHD600-41([version])(PACK).bin`.

4. Click the **Update** button.

The following message box will be displayed:

```
WARNING: Updating the firmware may overwrite some of your settings. Consider saving the configuration before updating the firmware. Are you sure you want to continue?
```

To save the configuration, before continuing, click the **Cancel** button on the message box. Refer to the section **Download Current Configuration to PC**.
6. Click the **OK** button.

7. After a few moments, the following message box will be displayed within the web interface:

![Please wait, processing...](image)

8. After the update process completes, the switcher will automatically reboot.
Setting the LED Brightness

Sets the brightness for the LED indicators on the front panel of the switcher.

1. Drag the slider to set the LED brightness. The brightness ranges from 0 to 100. The default setting is 50. The brightness value may also be entered directly, in the box, next to the slider bar.

Setting the IR Channel

Sets the IR channel for the switcher. The switcher must be set to the same IR channel as the included IR remote control, in order for the IR remote control to communicate with the switcher.

1. Click the desired IR channel for the switcher by clicking one of the **IR Channel** buttons (1 - 4). The default IR channel setting is 1.

The IR channel setting is automatically saved. Rebooting the switcher is not required.
 Performing a Factory Reset

This feature restores the switcher to original factory-default settings.

**Important**

Performing this function will erase all current setting of the switcher.
IP settings will be retained. To save the configuration, before continuing, refer to the section Download Current Configuration to PC.

1. Click the **Reset** button.

![Factory Reset](image)

2. The following message box will be displayed:

   ![Are you sure you want to reset the unit to factory defaults?](image)

   ▶ Click the **OK** button to continue with the reset procedure.
   
   ▶ Click the **Cancel** button to abort the reset procedure and return to the web interface.
**Rebooting the Switcher**

Clicking this button will reboot the switcher.

1. Click the **Reboot** button.

2. The following message box will be displayed:

   - Click the **OK** button to continue with the reboot procedure.
   - Click the **Cancel** button to abort the reboot procedure and return to the web interface.