

8x8
sources displays

DVI KVM
Dual Link Matrix
with Push Button Control

GEF-DVIKVM-848DL-PB

User Manual
Release B7



Gefen PRO®

Important Safety Instructions

GENERAL SAFETY INFORMATION

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this product near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Batteries that may be included with this product and/or accessories should never be exposed to open flame or excessive heat. Always dispose of used batteries according to the instructions.

RACK MOUNT SAFETY INFORMATION

- a. Maximum recommended ambient temperature: 40 °C (104 °F).
- b. Increase the air flow as needed to maintain the recommended temperature inside the rack.
- c. Do not exceed maximum weight loads for the rack. Install heavier equipment in the lower part of the rack to maintain stability.

Warranty Information

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.
2. Customers outside the US are responsible for shipping charges to and from Gefen.
3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

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For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at www.gefen.com.

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Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.

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For 24 / 7 support, see the back of the product for the support number

8x8 DVI KVM Dual Link Matrix with Push Button Control
is a trademark of Gefen, LLC.

Important Notice

Gefen, LLC reserves the right to make changes in the hardware, packaging, and any accompanying documentation without prior written notice.

Operating Notes

- The 8x8 DVI KVM Dual Link Matrix with Push Button Control will not pass HDCP content.
- There is no internal scaling in the 8x8 DVI KVM Dual Link Matrix with Push Button Control. All of the attached monitors must be able to display the resolutions output by the source devices. For maximum compatibility it is recommended that only one compatible/common resolution be used by all of the source devices.
- Advanced EDID features and IP configuration features are accessible via the RS-232 serial communication port. See [RS-232 and IP Configuration](#) for more information.
- Routing and EDID features can be accessed via a web browser using the IP control feature, built into the 8x8 DVI KVM Dual Link Matrix.
- The Gefen Syner-G Software Suite is a free downloadable application from Gefen that provides automatic download and installation of firmware upgrades for this product.

Download the application here: <http://www.gefen.com/support/download.jsp>

- The Gefen Matrix Switcher Keyboard Controller is a free downloadable application from Gefen that allows a computer keyboard to be used to switch between sources. This application uses the Telnet protocol to control any Gefen switcher or matrix that uses IP control.

Download the application here: <http://www.gefen.com/support/download.jsp>



IMPORTANT: If the unit is installed in a closed or multi-rack assembly, do not block the ventilation holes of the enclosure.

Features and Packing List

Features

- Supports 1080p Full HD at 120Hz and dual-link resolutions up to 3840 x 2400 or single-link resolutions up to 1920 x 1200
- Supports USB 2.0 compliant devices and backwards compatible with USB 1.1
- Support 2CH analog audio
- Programmable routing presets
- Output masking command
- IR Remote Control
- RS-232 control
- Telnet / IP Control
- Independent audio routing
- User-defined Input and Output naming
- Built-in IR Extender
- Grounding Pin
- Internal Power Supply
- Standby mode
- Supports DDWG standards for DVI
- Power ON / OFF switch
- Advanced EDID management permits upload of custom internal or external EDID settings
- Status LCD (shows routing status)
- Front panel control buttons for local switching
- Compatible with the Gefen Keyboard Controller software
- Rack-Mountable



Packing List

The *8x8 DVI KVM Dual Link Matrix with Push Button Control* ships with the items listed below. If any of these items are not present in your box when you first open it, immediately contact your dealer or Gefen.

- 1 x GefenPRO 8x8 DVI KVM Dual Link Matrix
- 8 x 6ft. DVI dual link cables (M-M)
- 8 x 6ft. audio cables
- 8 x 6ft. USB cables
- 1 x IR remote control unit
- 1 x AC power cord
- 1 x Quick-Start Guide

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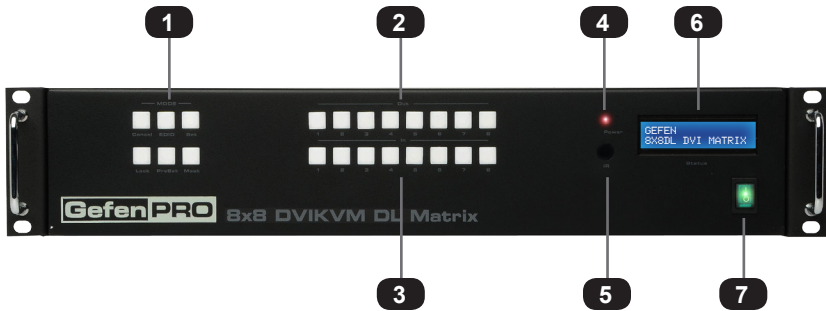
DVI KVM Dual Link Matrix with Push Button Control

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Panel Layout

Front



ID	Name	Description
1	Mode	These buttons are used to control various features on the matrix. See Routing Basics for more information.
2	Out	Each of these buttons represents an output on the matrix. Press these buttons to select the desired output during the routing process. See Routing Basics for more information.
3	In	Each of these buttons represents an input on the matrix. Press these buttons to select the desired input during the routing process. See Routing Basics for more information.
4	Power	This LED indicator will glow bright red when the matrix is powered-on.
5	IR	This IR sensor receives signals from the included IR remote control unit.
6	LCD display	Provides feedback of matrix features during operation.
7	Power switch	Press this toggle switch to power-on or power-off the matrix. This switch will glow bright green when the matrix is powered on.

Back



ID	Name	Description
1	RS-232	Connect the included RS-232 cable from this port to an RS-232 device. See RS-232 and IP Configuration for more information.
2	IEC connector	Connect the included AC power cord between this power receptacle and an available electrical outlet.
3	Audio In	Use the included audio cables to connect audio sources to these ports.
4	Out (1 - 8)	Use DVI cables to connect each DVI port to a display or other sink device.
5	In (1 - 8)	Use the included DVI cables to connect a DVI source to each of these ports.
6	Audio Out	Connect a 3.5mm audio cable from each audio port to an amplifier or other sink device.
7	USB In	Connect the included USB cables from each USB host device and these USB In ports.
8	USB Out	Connect a USB device (e.g. mouse, keyboard) to each of these USB Out ports.

(continued on next page)

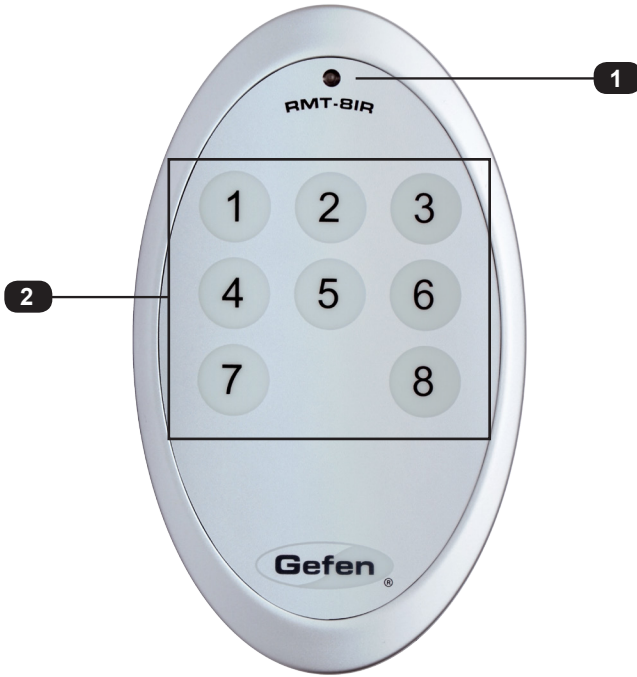
Back (continued)



ID	Name	Description
9	IP Control	Connect an Ethernet cable between this jack and a LAN to use IP control. See RS-232 and IP Configuration for more information.
10	Grounding terminal	Connect a grounding wire from the grounding terminal to an approved ground path.
11	Ext IR	Connect an IR Extender (Gefen part no. EXT-RMT-EXTIR) to this port.

IR Remote Control Unit

Front



ID	Name	Description
1	Activity indicator	This LED glows bright orange when a key is pressed on the remote.
2	Buttons (1 - 8)	Used to select the desired input when routing.

Back

(shown with cover removed)



ID	Name	Description
1	DIP switch bank	Use these DIP switches to set the IR channel of the remote. See Setting the IR Channel for more information.
2	Primary battery slot (shown without battery)	Holds the battery for operating the remote. Use only 3V CR2032-type batteries. Make sure that the positive (+) side of the battery is facing up.
3	Alternate battery slot	Allows for the installation of secondary (backup) battery.

Installing the Battery

The IR remote control unit ships with two batteries. Only one battery is required for operation. The second battery is a spare. Use only 3V CR2032-type batteries.

1. Remove the back cover the IR Remote Control unit.
2. Insert the included battery into the primary battery slot. The positive (+) side of the battery should be facing up.
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.



NOTE: An Activity Indicator that flashes quickly while holding down any one of the buttons indicates a low battery. Replace the battery as soon as possible.

Setting the IR Channel

In order for the included IR remote control to communicate with the *8x8 DVI KVM Dual Link Matrix with Push Button Control*, the IR remote control must be set to the same channel as the processor. Use the `#set_ir` command to set the IR channel of the *8x8 DVI KVM Dual Link Matrix with Push Button Control*.



Channel 0 (default): Remote Channel 1:



Remote Channel 2: Remote Channel 3:



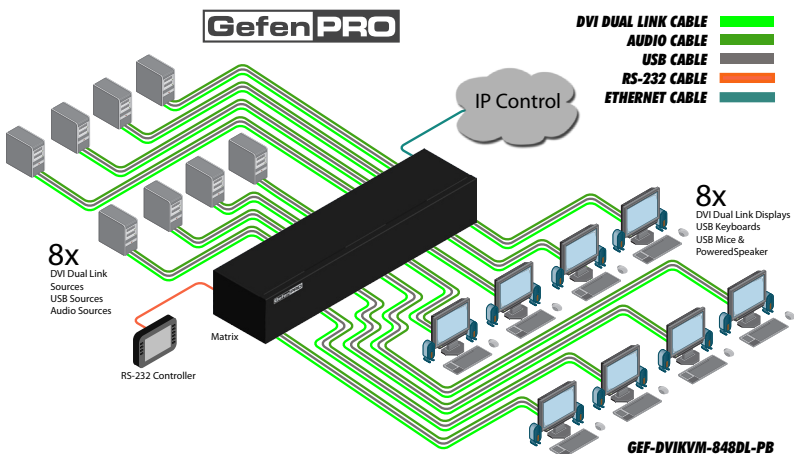
DIP switches

Installation

Connecting the 8x8 DVI KVM Dual Link Matrix with Push Button Control

1. Use the included DVI cables to connect up to eight DVI sources to the **DVI In** ports on the back panel of the matrix.
2. Connect up to eight DVI cables between the **DVI Out** ports and each display or other sink device.
3. Use the included USB cables to connect each USB host device to the **USB In** ports.
4. Connect up to 16 USB devices (mouse, keyboard, external drives, etc.) to each **USB Out** port.
5. Use the included 3.5mm mini-stereo cables to connect up to eight audio sources to the **Audio In** ports.
6. Connect up to eight 3.5mm mini-stereo cables from the **Audio Out** ports to an amplifier or other audio output device.
7. Connect an Ethernet cable between the **IP Control** jack and a LAN in order to use IP control. See [RS-232 and IP Configuration](#) for more information.
8. Connect the included AC power cord from the IEC connector on the matrix to an available electrical outlet.

Sample Wiring Diagram





DVI KVM Dual Link Matrix with Push Button Control

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Front Panel Controls

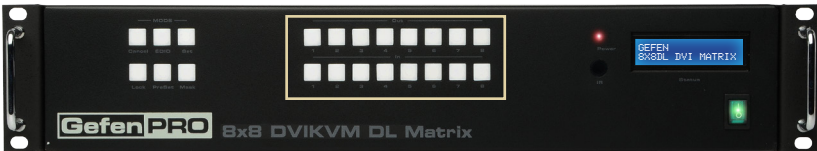
Front Panel Buttons

There are a total of 22 buttons on the front panel of the matrix. These buttons are grouped according to their function.

Out and In

The **Out** and **In** buttons comprise the largest group of buttons. The top row of 8 buttons represent each output. The bottom row of 8 buttons represent each input.

For example, button 1 on the top row represents Output 1, button 2 represents Output 2, and so on. The input buttons on the bottom row are arranged in a similar fashion: Button 1 on the bottom row represents Input 1, button 2 represents Input 2, and so on.



Mode

The Mode buttons are used to control various other functions on the matrix such as output masking and loading / storing of routing presets.



Front Panel LCD Screen

The front-panel of the *8x8 DVI KVM Dual Link Matrix with Push Button Controls* contains a 16-character 2-line LCD display which is used to provide feedback when performing routing functions. In addition, this display is used to show the current routing status of the matrix.



Besides displaying routing information and other feedback during various operations, the matrix provides setting information, from the Home screen. Consecutively press the **Cancel** button to display other matrix settings. The matrix will automatically return to the Home screen after a few moments if the **Cancel** button is not pressed within a certain amount of time.

LCD Screen	Description
<pre>FW 2.1.9 BOLO 1.6</pre>	Displays the current firmware and boot loader version.
<pre>IP ADDRESS 192.168.2.232</pre>	Displays the current IP address of the matrix. See IP Configuration for information on changing the IP address of the matrix.
<pre>MAC ADDRESS 0.1C.91.1.30.58</pre>	Displays the MAC address of the matrix. The MAC address cannot be changed.
<pre>IR ADDRESS SW1=0, SW2=0</pre>	Displays the required DIP switch settings in order for the IR remote control unit to communicate with the matrix. See Setting the IR Channel .

Routing Basics

Routing Inputs to Outputs

The following example illustrates the routing process. An input may be routed to a single or multiple outputs. Multiple inputs cannot be routed to a single output.

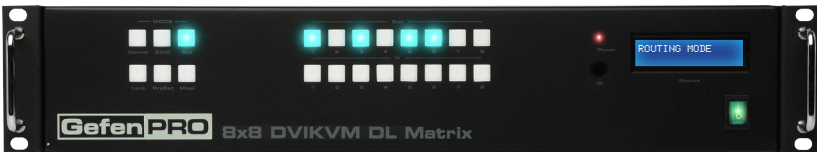
1. Press the **Set** button on the front panel. Pressing the **Set** button tells the matrix that we want to perform a routing, masking, or preset operation. The **Set** button will glow bright blue, indicating that it has been pressed.



2. The LCD on the front panel will indicate that routing mode is active.



3. Press the desired output button(s) (1 - 8). For this example, we will route an input to multiple outputs. First, select the outputs: Output 1, Output 3, Output 5, and Output 6. Press buttons **1**, **3**, **5**, and **6** on the top row. The selected buttons will glow bright blue.



4. Select the desired input (source) button (1 - 8). For this example, we will route the source connected to Input 6 to each of the outputs in step 3. Therefore, press button **6** on the bottom row. The selected input will glow bright blue.



NOTE: Only one input can be routed at a time. If the wrong input button is accidentally pressed, then continue by pressing the correct input button. The previous input button will automatically be deselected.



5. Press the **Set** button on the front panel, once again. Pressing the **Set** button again tells the matrix that we have completed the routing operation. Once the **Set** button has been pressed, the LCD will indicate that the routing process has been completed.

A blue rectangular LCD screen displaying the text 'ROUTING COMPLETE' in white, monospaced font.

6. After a few moments, the selected buttons on the front panel will turn off and the LCD will return to the Home screen.



A blue rectangular LCD screen displaying the text 'GEFEN 8X8DL DVI MATRIX' in white, monospaced font.

Getting the Current Routing Status

To display the current routing status of the Matrix, press any one of the Input or Output buttons on the front panel.

From our previous routing example, we already know that Input 6 is routed to Output 1, 3, 5, and 6. However, let's use this to illustrate how to retrieve the current routing status of an input or output.

Outputs to Inputs

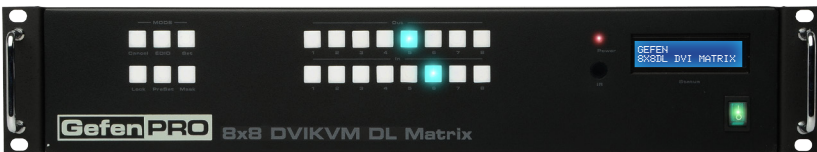
1. Press the button **3** on the top row of buttons.

When we pressed **3** (on the top row), button **6** on the bottom row was also selected. This tells us that Input 6 has been routed to Output 3.



2. Now, press button **5** on the top row of buttons.

We can see that Output 5 is also connected (routed) to Input 6. This agrees with our previous routing example.

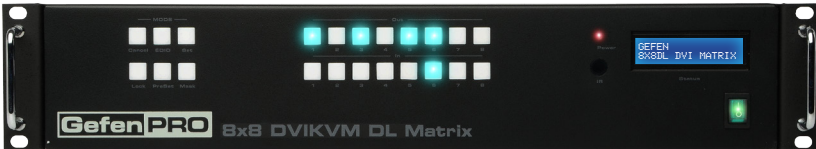


If Output button **1** or **3** is pressed, the button for Input 6 will also be selected.

Inputs to Outputs

1. Press the **6** button on the bottom row of buttons.

By querying an input, all Outputs that are connected (routed) to the input are displayed:



2. Now, press another Input button on the matrix. We will arbitrarily select Input 2 (button 2).



In the example above, we can see that Input 2 is routed to Output 2. When an input of the same number is routed to an output of the same number (2-2, 3-3, 5-5, etc), this is called "one-to-one" routing.

One-to-One Routing

When an input-output pair share the same number, it is called "one-to-one" routing. By default, the 8x8 DVI KVM Dual Link Matrix with Push Button Control is shipped in "one-to-one" mode. This means that Input 1 is routed to Output 1, Input 2 is routed to Output 2, and so on.

Saving the Current Routing State

The *8x8 DVI KVM Dual Link Matrix with Push Button Control* allows routing (and masking) states to be saved to internal non-volatile memory. Each routing state can be recalled at a later time (see [Recalling a Saved Routing State](#)). Even if the matrix is powered OFF, the presets will be retained in memory.

We'll illustrate an example by saving the routing state, created in the section [Routing Inputs to Outputs](#).

1. To make sure we are saving the correct routing state, press Input 6 on the front panel. The following routing state should be displayed:



This is the routing state we created earlier.

2. Press the **Cancel** button to hide the displayed routing state. The **Cancel** button will flash momentarily when pressed.
3. Press the **PreSet** button, *twice*.



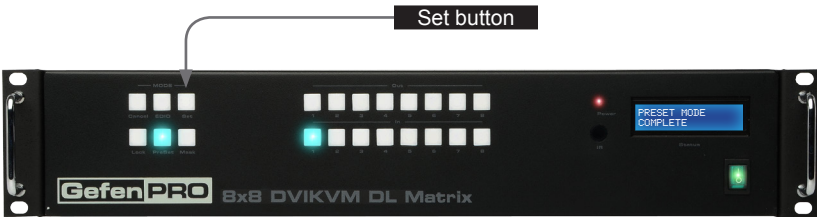
The LCD will indicate that the matrix is in *save preset mode*:



4. Select a preset location by pressing any of the first eight input buttons (1 - 8). The matrix supports up to eight preset locations. For this example, we will store the routing preset using button **1**.



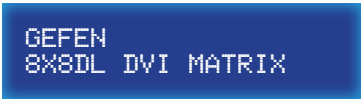
5. Press the **Set** button to store the routing state in the selected location. The **Set** button will flash momentarily.



6. The matrix will indicate that the current routing state has been saved.



7. After a few moments, the selected buttons will turn off and the LCD will return to the Home screen.



Recalling a Saved Routing State

The *8x8 DVI KVM Dual Link Matrix with Push Button Control* allows saved routing (and masking) states to be recalled from memory for instant access.

In this example, we will recall the routing preset that we stored in the previous example. In order to clearly see how the recall-process works, try changing the routing state of Input 6 to Output 2. Then, use the steps below to recall the original routing state.

1. Press the **PreSet** button, *once*. The LCD will indicate that the matrix is in *recall preset mode*.



PRESET MODE
RECALL SAVED SET

2. Since we stored our preset in Preset 1, press the button for Input 1 to recall the routing state.



3. Press the **Set** button to recall the routing state from the selected location. The **Set** button will flash momentarily.
4. After a few moments, the selected buttons will turn off and the LCD will return to the Home screen.

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Masking

Masking Outputs

“Masking” prevents the output device (display, etc) from receiving an output signal. Instead of powering-down or disconnecting the output device, individual or multiple outputs can be masked. Inputs cannot be masked.

To illustrate masking, we'll use our original routing example from the section [Routing Inputs to Outputs](#).

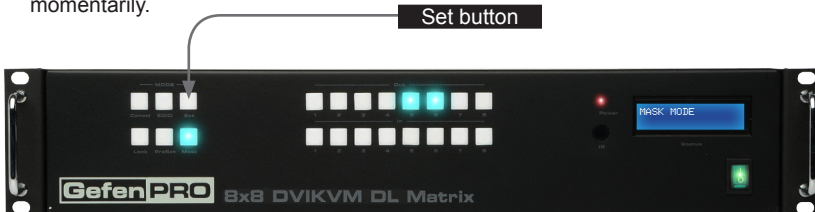
1. Press the **Mask** button. The Mask button will glow bright blue and the LCD will indicate that the matrix is in *mask mode*.



2. Select the desired outputs to be masked. In this example, we will select Output 5 and Output 6.



3. Press the **Set** button to mask the selected outputs. The **Set** button will flash momentarily.



- Once the **Set** button is pressed, the LCD display will indicate that the masking process was successful:



MASK MODE
MASK COMPLETED

- After a few moments, the selected buttons will turn off and the LCD will return to the Home screen.



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8X8DL DVI MATRIX

Getting the Current Masking Status

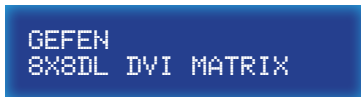
If the masking state is unknown, it can be queried using the Mask button. Alternatively, the masking state can be retrieved through the [Web Interface](#) or by using the `m` command.

1. Press the **Mask** button. The Mask button will glow bright blue and the LCD will indicate that the matrix is in *mask mode*.

If any outputs are currently masked, they will be indicated on the front panel. For example, since we recently masked Output 5 and Output 6, these buttons will glow bright blue, as shown below.



2. After a few moments, the selected buttons will turn off and the LCD will return to the Home screen.



Unmasking Outputs

Once an output (or multiple outputs) has been masked, it can be unmasked. Unmasking an output will allow the video signal to be displayed after a masking operation.

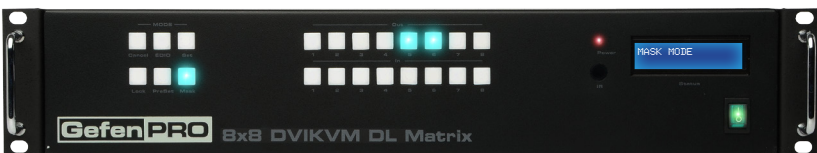
We'll continue with our previous example and unmask Output 5 and Output 6.

1. Press the **Mask** button. The **Mask** button will glow bright blue and the LCD will indicate that the matrix is in mask mode.

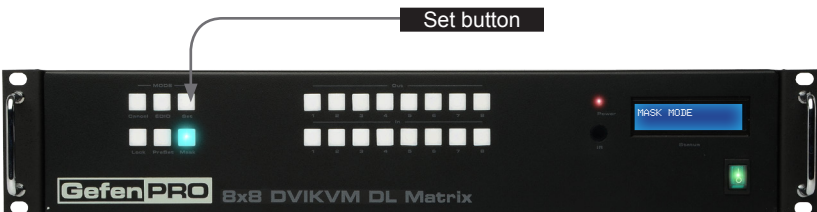
Once the mask button is pressed, any outputs that have been masked will be indicated on the front panel.



2. To unmask an output, press the desired output(s). In our case, we will select both Output 5 and Output 6. Each button will turn off as it is pressed.



3. Press the **Set** button. The **Set** button will flash momentarily.



- Once the **Set** button is pressed, the LCD display will indicate that the unmasking process was successful:



MASK MODE
MASK COMPLETED

- After a few moments, the matrix will return to the Home screen.



GEFEN
8X8DL DVI MATRIX

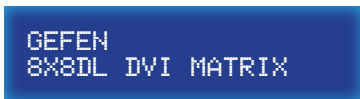
Locking the Matrix

Locking the matrix will prevent any changes by disabling all buttons (except the Lock button) on the front panel. This feature is useful in preventing routing or other changes caused by accidentally bumping or pressing the buttons on the front panel.

1. Press the **Lock** button under the Mode group. The **Lock** button will glow bright blue, indicating that the matrix is now locked. The LCD display will also indicate that the matrix has been locked.



2. To unlock the matrix, press the **Lock** button again. The **Lock** button will turn off and the LCD display will return to the Home screen.



EDID Management

The 8x8 DVI KVM Dual Link Matrix with Push Button Control incorporates EDID management support. Basic EDID functions, such as storing EDID data to inputs can be performed using the buttons on the front panel. Advanced EDID management features are controlled using [EDID Management](#) commands or through the [Web Interface](#).

Saving the Downstream EDID to an Input

1. Press the **EDID** button, *once*. The **EDID** button will glow bright blue and the LCD will indicate that the matrix is ready to copy the downstream EDID.



DSTOLO is an abbreviation for “DownStream TO LOcal”.

2. Press the desired output. For this example, we are going to use the EDID of the display that is connected to Output 7. Therefore, we will press the button for Output 7.



(continued on next page)

3. Select the desired input where the EDID will be stored. We will arbitrarily select Input 4, by pressing button 4.



4. Press the **Set** button. The **Set** button will flash momentarily.



5. Once the **Set** button is pressed, the matrix will begin copying the downstream EDID from the display (or other sink) to the EDID from the selected output to the specified input.

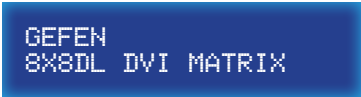
The LCD will indicate that the matrix is copying the EDID:



6. After the EDID has been successfully copied to the selected input, the LCD will display the following message:



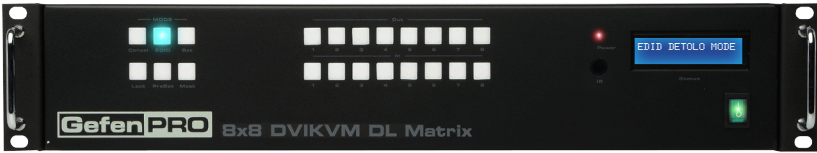
- 7. After a few moments, the selected buttons will turn off and the LCD will return to the Home screen.



Saving the Default EDID to an Input

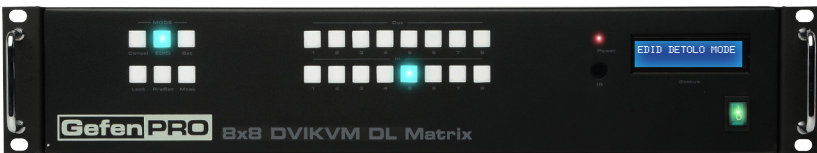
There may be instances when the downstream EDID data is corrupt or the EDID is not being read correctly by the matrix. On the other hand, it may be desirable to use a “generic” EDID as opposed to the downstream EDID. In any case, the matrix provides a default (internal) EDID that can be used. Let’s look at an example.

1. Press the **EDID** button, *twice*. The EDID button will glow bright blue and the LCD will indicate that the matrix is ready to copy the default EDID to the specified input.

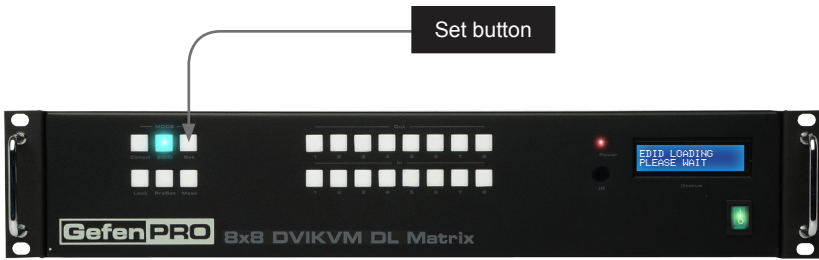


DETOLO is an abbreviation for “DEfault TO LOcal”.

2. Select the input where the default EDID will be copied. For this example, we will copy the default EDID to Input 5. Therefore, we will press the button for Input 5.



3. Press the **Set** button. The Set button will flash momentarily.



4. Once the **Set** button is pressed, the matrix will begin copying the default EDID to the specified input.

The LCD will indicate that the matrix is copying the EDID:



EDID LOADING
PLEASE WAIT

5. After the EDID has been successfully copied to the selected input, the LCD will display the following message:



EDID LOADING
COPY COMPLETE

6. After a few moments, the selected buttons will turn off and the LCD will return to the Home screen.



GEFEN
8X8DL DVI MATRIX



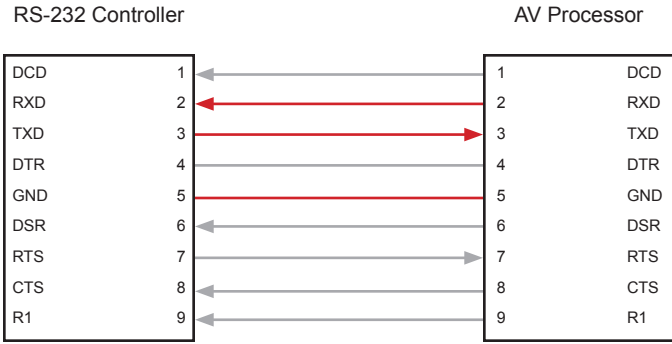
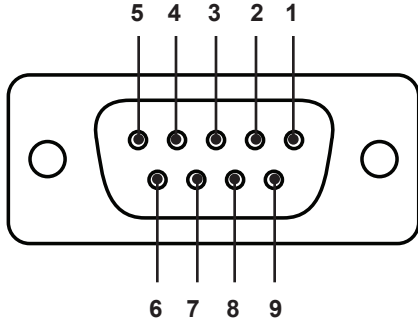
DVI KVM Dual Link Matrix with Push Button Control

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RS-232 and IP Configuration

RS-232 Interface



Only TXD, RXD, and GND pins are used.

RS-232 Settings

Description	Setting
Baud rate	19200
Data bits	8
Parity	None
Stop bits	1
Hardware flow control	None

IMPORTANT: When sending RS-232 commands, a carriage return must be included at the end of the command. A space *must* be included between the command and the parameter.

IP / Telnet Configuration

The *8x8 DVI KVM Dual Link Matrix with Push Button Control* supports IP-based control using the built-in Web GUI. To set up IP control, the network settings must be configured using RS-232. The default network settings for the matrix are as follows:

Description	Address / Port	Description	Address / Port
IP Address	192.168.1.72	Gateway	192.168.1.1
Subnet	255.255.255.0	HTTP Port	80

1. Connect an RS-232 cable from the PC to the DB-9 connector on the matrix. Also make sure that an Ethernet cable is connected between the matrix and the network.
2. Launch a terminal emulation program (e.g. HyperTerminal) and use the RS-232 settings listed on the previous page.



NOTE: Depending upon the network, all related IP settings will need to be assigned. Consult your network administrator to obtain the proper settings.

3. Set the IP address for the matrix using the `#sipadd` command.
4. Set the subnet mask using the `#snetmask` command.
5. Set the gateway (router) IP address using the `#sgateway` command.
6. Set the HTTP listening port using the `#set_http_port` command.
7. Reboot the matrix to apply all changes, then type the IP address that was specified in step 3, in a Web browser to access the Web GUI.

Note:

If enabled, the following message will be displayed when a Telnet session is started:

```
----- Welcome to DVI8x8_DL Telnet Server -----  
- You are user number 1 of 2 allowed. -  
- You will be disconnected after 5 minutes of inactivity. -  
-----
```

#ipconfig

The #ipconfig command displays the current TCP/IP settings for the matrix.

Syntax:

```
#ipconfig
```

Parameters:

None

Example:

```
#ipconfig  
  
----- TCP/IP settings -----  
  
MAC add = 00:1C:91:01:00:00  
IP add = 192.168.2.232  
Net Mask = 255.255.255.0  
Gateway = 192.168.2.1  
Web Server Port = 80  
Telnet Server Port = 23  
Telnet password at login is set to OFF  
Telnet welcome at login is set to ON
```

#resetip

The #resetip command resets the IP configuration to factory-default settings. The matrix must be rebooted after executing this command.

Syntax:

```
#resetip
```

Parameters:

None

#set_http_port

The #set_http_port command specifies the Web server listening port. The matrix must be rebooted after executing this command. The default port setting is 80.

Syntax:

```
#set_http_port param1
```

Parameters:

<i>param1</i>	Port	[1 ... 65535]
---------------	------	---------------

Example:

```
#set_http_port 82  
New HTTP port set to: 82
```


#set_telnet_pass

The `#set_telnet_pass` command sets the Telnet password. The matrix must be rebooted after executing this command. The password cannot exceed 20 characters in length. The default password is `Admin`.

Syntax:

```
#set_telnet_pass param1
```

Parameters:

<i>param1</i>	Password
---------------	----------

Example:

```
#set_telnet_pass reindeer  
Telnet password updated to: reindeer
```

#set_telnet_port

The `#set_telnet_port` command sets the TCP terminal server listening port. The matrix must be rebooted after executing this command. The default port setting is 23.

Syntax:

```
#set_telnet_port param1
```

Parameters:

<i>param1</i>	Port	[1 ... 65535]
---------------	------	---------------

Example:

```
#set_tcp_term_port 21  
New Telnet port set to: 21
```

#set_telnet_username

The #set_telnet_username command sets the Telnet user name. The matrix must be rebooted after executing this command. The user name cannot exceed 20 characters in length.

Syntax:

```
#set_telnet_username param1
```

Parameters:

<i>param1</i>	User name
---------------	-----------

Example:

```
#set_telnet_username flynn  
Telnet login updated to: flynn
```

#sgateway

The #sgateway command sets the new IP gateway. The gateway must be typed using dot-decimal notation. The matrix must be rebooted after executing this command. The default gateway is 192.168.1.1.

Syntax:

```
#sgateway param1
```

Parameters:

<i>param1</i>	Gateway
---------------	---------

Example:

```
#sgateway 192.168.2.1  
New IP Gateway set to: 192.168.2.1
```

#show_telnet_pass

The #show_telnet_pass command displays the current Telnet password.
Use the #set_telnet_pass command to set the Telnet password.

Syntax:

```
#show_telnet_pass
```

Parameters:

None

Example:

```
#show_telnet_pass  
Telnet password: reindeer
```

#show_telnet_username

The #show_telnet_name command displays the current Telnet user name.

Syntax:

```
#show_telnet_username
```

Parameters:

None

Example:

```
#show_telnet_username  
Telnet login: flynn
```

#sipadd

The #sipadd command sets the IP address of the matrix. The IP address must be entered using dot-decimal notation. The matrix must be rebooted after executing this command. The default IP address of the matrix is 192.168.1.72.

Syntax:

```
#sipadd param1
```

Parameters:

param1 IP address

Example:

```
#sipadd 192.168.1.127  
New IP set to: 192.168.1.127
```

#snetmask

The #snetmask command sets the subnet mask. The net mask must be entered using dot-decimal notation. The matrix must be rebooted after executing this command. The default net mask is 255.255.255.0

Syntax:

```
#snetmask param1
```

Parameters:

param1 Gateway

Example:

```
#snetmask 255.255.0.0  
New IP Mask set to: 255.255.0.0
```

#use_telnet_pass

The #use_telnet_pass command enables / disables the login credentials when starting a Telnet session.

Syntax:

```
#use_telnet_pass param1
```

Parameters:

param1 Value [0 ... 1]

Value	Description
0	Disable password prompt
1	Enable password prompt

Example:

```
#use_telnet_pass 1  
Telnet password at login is set to ON
```


#edidbatolo

The #edidbatolo command loads the EDID from the specified EDID bank and writes it to the specified input(s). At least one input must be specified. If *param2* = 0, then the EDID in the specified bank is copied to all 8 inputs.

Syntax:

```
#edidbatolo param1 param2 [... param9]
```

Parameters:

<i>param1</i>	EDID bank offset	[1 ... 20]
<i>param2 - param9</i>	Input list	[1 ... 8]

Examples:

```
#edidbatolo 2 3 6 7
```

```
Loading EDID bank 2 to locals Inputs: 3 6 7, please  
wait.....  
Finished Loading
```

```
#edidbatolo 5 0
```

```
Loading EDID bank 5 to all locals Inputs, please wait.....  
Finished Loading
```

#ediddetolo

The #ediddetolo command stores the default (Internal) EDID to the specified input(s). At least one input must be specified. If *param2* = 0, then the EDID in the specified bank is copied to all 8 inputs.

Syntax:

```
#ediddetolo param1 [... param9]
```

Parameters:

<i>param1 - param8</i>	Input	[1 ... 8]
------------------------	-------	-----------

Examples:

```
#ediddetolo 5 6 7
```

```
Loading default EDID to locals Inputs: 5 6 7, please wait.....  
Finished Loading
```

```
#ediddetolo 0
```

```
Loading default EDID to all locals Inputs, please wait.....  
Finished Loading
```


#ediddstoba

The #ediddstoba command reads the downstream EDID and stores it to the specified EDID bank.

Syntax:

```
#ediddstoba param1 param2
```

Parameters:

<i>param1</i>	Output	[1 ... 8]
<i>param2</i>	EDID bank	[1 ... 20]

Example:

```
#ediddstoba 5 17
Loading Downstream EDID 5 to EDID bank 17, please wait....
Finished Loading
```

#ediddstolo

The #ediddstolo command reads the downstream EDID and stores it to a Local EDID. If *param2* = 0, then the EDID in the specified bank is copied to all 8 inputs. At least one input must be specified.

Syntax:

```
#ediddstolo param1 param2 [...param9]
```

Parameters:

<i>param1</i>	Output	[1 ... 8]
<i>param2</i>	Input	[1 ... 8]

Example:

```
#ediddstolo 2 6 7
Loading Downstream EDID 2 to locals Inputs: 6 7, please wait....
Finished Loading
```


#prbaeidid

The #prbaeidid command displays the EDID stored in the specified EDID bank.

Syntax:

```
#prbaeidid param1
```

Parameters:

<i>param1</i>	EDID bank	[1 ... 3]
---------------	-----------	-----------

Example:

```
#prbaeidid 3
Print the Bank EDID 3 on terminal screen
```

```
0x00 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0x00
0x10 0xAC 0x2E 0xA0 0x53 0x46 0x41 0x32
0x2C 0x11 0x01 0x03 0x80 0x34 0x20 0x78
0xEE 0xEE 0x91 0xA3 0x54 0x4C 0x99 0x26
0x0F 0x50 0x54 0xA5 0x4B 0x00 0x71 0x4F
0x81 0x80 0xA9 0x40 0x01 0x01 0x01 0x01
0x01 0x01 0x01 0x01 0x01 0x01 0x28 0x3C
0x80 0xA0 0x70 0xB0 0x23 0x40 0x30 0x20
0x36 0x00 0x06 0x44 0x21 0x00 0x00 0x1A
0x00 0x00 0x00 0xFF 0x00 0x52 0x4E 0x30
0x37 0x31 0x37 0x41 0x55 0x32 0x41 0x46
0x53 0x20 0x00 0x00 0x00 0xFC 0x00 0x44
0x45 0x4C 0x4C 0x20 0x45 0x32 0x34 0x38
0x57 0x46 0x50 0x0A 0x00 0x00 0x00 0xFD
0x00 0x38 0x4C 0x1E 0x53 0x11 0x00 0x0A
0x20 0x20 0x20 0x20 0x20 0x20 0x00 0xF7
```

#prdsedid

The #prdsedid command displays the EDID stored in the specified EDID bank.

Syntax:

```
#prdsedid param1
```

Parameters:

<i>param1</i>	Output	[1 ... 8]
---------------	--------	-----------

Example:

```
#prdsedid 8
```

Print the Downstream EDID 8 on terminal screen, please wait...

```

0x00 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0x00
0x10 0xAC 0x35 0x40 0x4C 0x32 0x33 0x32
0x31 0x13 0x01 0x03 0x80 0x41 0x29 0x78
0xEA 0x8F 0x95 0xAD 0x4F 0x32 0xB2 0x25
0x0F 0x50 0x54 0xA5 0x4B 0x00 0x81 0x80
0xA9 0x40 0xD1 0x00 0xD1 0x40 0x71 0x4F
0x81 0x00 0xB3 0x00 0x01 0x01 0xB0 0x68
0x00 0xA0 0xA0 0x40 0x2E 0x60 0x30 0x20
0x36 0x00 0x81 0x90 0x21 0x00 0x00 0x1E
0x00 0x00 0x00 0xFF 0x00 0x47 0x35 0x30
0x31 0x48 0x39 0x43 0x32 0x32 0x33 0x32
0x4C 0x0A 0x28 0x3C 0x80 0xA0 0x70 0xB0
0x23 0x40 0x30 0x20 0x36 0x00 0x81 0x91
0x21 0x00 0x00 0x1C 0x00 0x00 0x00 0xFD
0x00 0x31 0x56 0x1D 0x71 0x1C 0x00 0x0A
0x20 0x20 0x20 0x20 0x20 0x20 0x00 0x41

```

#predidst

The #predidst command displays the EDID used by each input.

Syntax:

```
#predidst param1
```

Parameters:

None

Example:

```
#predidst
```

Input	Source	Name
1	Default	GEFEN_XPT_DL
2	Default	GEFEN_XPT_DL
3	Default	GEFEN_XPT_DL
4	Default	GEFEN_XPT_DL
5	Default	GEFEN_XPT_DL
6	Default	GEFEN_XPT_DL
7	Default	GEFEN_XPT_DL
8	Default	GEFEN_XPT_DL

Routing and Masking

Command	Description
<code>#audswitch</code>	Enables / disables independent audio switching
<code>#callpreset</code>	Restores the specified routing / masking preset
<code>#maskaud</code>	Masks / unmasks the specified audio output
<code>#maskout</code>	Masks the specified output(s)
<code>#maskusb</code>	Masks the specified USB output port
<code>#prpreset</code>	Displays all presets in tabular form
<code>#saudio</code>	Routes the specified audio inputs
<code>#savepreset</code>	Saves the current routing state to the specified preset
<code>#set_input_name</code>	Names the specified input
<code>#set_output_name</code>	Names the specified output
<code>#unmaskout</code>	Unmasks the specified outputs
<code>m</code>	Displays the current matrix status in tabular form
<code>r</code>	Routes the specified input to the specified outputs
<code>s</code>	Routes the specified inputs to all outputs

#audswitch

The `#audswitch` command enables / disables independent audio switching. Use the `#saudio` command to perform independent audio switching.

Syntax:

```
#audswitch param1
```

Parameters:

param1 Value [0 ... 1]

Value	Description
0	Disable audio switching
1	Enable audio switching

Example:

```
#audswitch 1
Enable independent audio routing
```

#callpreset

The #callpreset command restores the specified routing / masking preset. If the specified preset is empty, then Empty Set will be returned.

Syntax:

```
#callpreset param1
```

Parameters:

<i>param1</i>	Preset	[1 ... 8]
---------------	--------	-----------

Example:

```
#callpreset 2  
Recall Saved Set 2
```


#maskaud

The #maskaud command masks / unmask the specified audio output.

Syntax:

```
#maskaud param1 param2
```

Parameters:

<i>param1</i>	Audio Output	[1 ... 8]
<i>param2</i>	State	[0 ... 1]

Value	Description
0	Disable masking (active)
1	Enable masking

Examples:

```
#maskaud 1 1  
Mask AUDIO Output 1
```

```
#maskaud 1 0  
Active AUDIO Output 1
```

#maskout

The `#maskout` command masks the specified video output(s). Up to eight video outputs can be specified at a time. If `param1 = 0`, then all video outputs will be masked. Use the `#unmask` command to unmask video outputs.

Syntax:

```
#maskout param1 [...param8]
```

Parameters:

<i>param1</i>	Video Output	[1 ... 8]
---------------	--------------	-----------

Examples:

```
#maskout 1 3 5 6  
Mask outputs: 1 3 5 6
```

```
#maskout 0  
Masked all outputs
```

#maskusb

The #maskusb command masks / unmask the specified USB output port.

Syntax:

```
#maskusb param1 param2
```

Parameters:

<i>param1</i>	Video Output	[1 ... 8]
<i>param2</i>	State	[0 ... 1]

Value	Description
0	Disable masking (active)
1	Enable masking

Examples:

```
#maskusb 3 1  
Mask USB DownStream 3
```

```
#maskout 3 0  
Active USB DownStream 3
```

#prpreset

The #prpreset command displays the current list of presets in tabular form.

Syntax:

```
#prpreset
```

Parameters:

None

Example:

```
#prpreset
```

```
PreSet|Out1| 2 | 3 | 4 | 5 | 6 | 7 | 8
-----|-----|-----|-----|-----|-----|-----|-----|-----
  1  |M 0 |M 0|M 0|M 0|M 0|M 0|M 0|M 0
  2  |M 0 |M 0|M 0|M 0|M 0|M 0|M 0|M 0
  3  |M 0 |M 0|M 0|M 0|M 0|M 0|M 0|M 0
  4  |M 0 |M 0|M 0|M 0|M 0|M 0|M 0|M 0
  5  |M 0 |M 0|M 0|M 0|M 0|M 0|M 0|M 0
  6  |M 0 |M 0|M 0|M 0|M 0|M 0|M 0|M 0
  7  |M 0 |M 0|M 0|M 0|M 0|M 0|M 0|M 0
  8  |M 0 |M 0|M 0|M 0|M 0|M 0|M 0|M 0
-----|-----|-----|-----|-----|-----|-----|-----|-----
Audio |Out1| 2 | 3 | 4 | 5 | 6 | 7 | 8
-----|-----|-----|-----|-----|-----|-----|-----|-----
  1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1
  2  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2
  3  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
  4  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
  5  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
  6  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
  7  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
  8  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
-----|-----|-----|-----|-----|-----|-----|-----|-----
```

#audio

The #audio command routes audio independently from video outputs. If *param1* = 0, then audio routing is placed in a “1-to-1” state with the current video routing. Independent audio routing must be enabled before using this command. See the #audswitch command for more information.

Syntax:

```
#audio param1
```

Parameters:

<i>param1</i>	Audio Input	[1 ... 8]
---------------	-------------	-----------

Examples:

```
#audio 2  
Independent audio route input 2 to all outputs
```

```
#audio 0  
Independent audio routing 1-1,2-2...
```

#savepreset

The #savepreset command saves the current routing and masking state to a specified preset. To restore a saved preset, use the #callpreset command.

Syntax:

```
#savepreset param1
```

Parameters:

<i>param1</i>	Preset	[1 ... 8]
---------------	--------	-----------

Example:

```
#savepreset 2  
Saved current as set 2
```

#set_input_name

The #set_input_name command names the specified input. The name of the input cannot exceed 15 characters in length. Spaces are not permitted when naming outputs. If a space is required, use the underscore (“_”) character.

Syntax:

```
#set_input_name param1 param2
```

Parameters:

<i>param1</i>	Input	[1 ... 8]
<i>param2</i>	Name	

Example:

```
#set_input_name 4 signal_gen  
signal_gen is assigned to input 4
```

#set_output_name

The #set_output_name command names the specified output. The name of the output cannot exceed 15 characters in length. Spaces are not permitted when naming outputs. If a space is required, then use the underscore (“_”) character.

Syntax:

```
#set_output_name param1 param2
```

Parameters:

<i>param1</i>	Output	[1 ... 8]
<i>param2</i>	Name	

Example:

```
#set_output_name 7 Dell_24
Dell_24 is assigned to output 7
```

#unmaskout

The #unmaskout command unmask the specified output(s). Multiple outputs can be specified. If *param1* = 0, then all outputs will be unmasked.

Syntax:

```
#set_output_name param1 [... param9]
```

Parameters:

<i>param1</i>	Output	[1 ... 8]
---------------	--------	-----------

Examples:

```
#unmaskout 4 5 8
Activate outputs: 4 5 8
```

```
#unmaskout 0
Active all outputs
```

m

The `m` command displays the current matrix status in tabular form. The current DIP switch settings for the IR remote control unit are also displayed, based on the current IR channel of the matrix. Do not precede this command with the “#” symbol.

Syntax:

```
m
```

Parameters:

None

Example:

```
m
```

Output	Input	HPD	Status	AUDIOin
Output_1	Input_1	LOW	ACTIVE	1
Output_2	Input_2	LOW	ACTIVE	2
Output_3	Input_3	LOW	ACTIVE	3
Output_4	Input_3	LOW	ACTIVE	4
Output_5	Input_5	LOW	ACTIVE	5
Output_6	Input_6	LOW	ACTIVE	6
Dell_24	Input_7	LOW	ACTIVE	7
Output_8	Input_8	LOW	ACTIVE	8

```
EDID lock state
```

```
RMT_IR - SW1=0,SW2=0
```


r

The `r` command routes the specified input to the specified outputs. Up to eight outputs can be specified at a time. Do not precede this command with the “#” symbol. If `param2 = 0`, then the specified input will be routed to all outputs. Also see the `s` command.

Syntax:

```
r param1 param2 [... param9]
```

Parameters:

<i>param1</i>	Input	[1 ... 8]
<i>param2</i>	Output	[1 ... 8]

Example:

```
r 1 2 3 7 8  
Input 1 is routed to outputs: 2 3 7 8
```

```
r 5 0  
All outputs are routed to input 5
```

S

The `s` command routes the specified inputs to all outputs. Do not precede this command with the “#” symbol. If `param1 = 0`, then the matrix will be placed in a “1-to-1” routing state. In other words, Input 1 is routed to Output 1, Input 2 is routed to Output 2, and so on. Also see the `r` command.

Syntax:

```
s param1
```

Parameters:

<i>param1</i>	Input	[1 ... 8]
---------------	-------	-----------

Example:

```
s 2  
All outputs are routed to input 2
```

```
s 0  
Routed 1-1,2-2...
```

System

Command	Description
<code>#fadefault</code>	Resets the routing and masking to factory-default settings
<code>#help</code>	Displays a list of available RS-232 / Telnet commands
<code>#lock_fo</code>	Enables / disables the power lock state
<code>#set_ir</code>	Sets the IR channel of the matrix
<code>#show_temp</code>	Displays the temperature of each board within the matrix
<code>#show_ver_data</code>	Displays the current hardware and firmware version
<code>#show_voltage</code>	Displays the input and output board voltages
<code>1</code>	Displays the single link / dual link state of each input

#fadefault

The #fadefault command resets the matrix to factory-default settings.

Syntax:

```
#fadefault
```

Parameters:

None

Example:

```
#fadefault
Reset to factory default, Please wait
Routing 1-1,2-2,...
Unmasked all Outputs

Loading default EDID to all locals Inputs, please wait.....
Finished Loading
```


#lock_fo

The #lock_fo command enables / disables the power lock state. Enabling this feature will store the +5V status for each input prior to powering-down (or power-cycling) the matrix. The +5V state is preserved when the matrix is powered.

Syntax:

```
#lock_fo param1
```

Parameters:

None

Value

[0 ... 1]

Value	Description
0	Disable +5V status
1	Enable +5V status

Example:

```
#lock_fo 1  
Enable Lock power mode
```

#set_ir

The #set_ir command sets the IR channel of the matrix. In order for the included IR remote control unit to function correctly with the matrix, both the matrix and the IR remote must share the same IR channel. After executing this command, the DIP switch settings for the included IR remote control unit are returned. See [Setting the IR Channel](#) for information on setting the IR channel on the IR remote control unit.

Syntax:

```
#set_ir param1
```

Parameters:

<i>param1</i>	IR channel	[0 ... 3]
---------------	------------	-----------

Example:

```
#set_ir 2  
RMT_IR - SW1=0,SW2=1
```

#show_temp

The #show_temp command displays the temperature of each board within the matrix.

Syntax:

```
#show_temp
```

Parameters:

None

Example:

```
#show_temp
```

```
Temperature near main power supply is 43  
Temperature near cross point is 54  
Temperature near power supply input board is 45
```

#show_ver_data

The #show_ver_data command displays the current hardware and firmware version.

Syntax:

```
#show_ver_data
```

Parameters:

None

Example:

```
#show_ver_data
```

```
Hardware version 1  
Firmware Release version 2.1.9  
Release date: Mar 3 2013  
Release time: 10:09:48  
Boot loader version 1.6
```

#show_voltage

The #show_voltage command displays the input and output board voltages.

Syntax:

```
#show_voltage
```

Parameters:

None

Example:

```
#show_voltage  
Voltage 3.3 , measured 3356 mV  
Voltage 5   , measured 5054 mV  
Voltage 12  , measured 11965 mV  
Voltage 1.2 , measured 1203 mV  
Voltage 1.8 , measured 1803 mV  
Voltage 3.3 , measured 3265 mV
```


1

The 1 command displays the dual link / single link status of each input. Do not precede this command with the “#” symbol.

Syntax:

1

Parameters:

None

Example:

1

Input	Signal	Link
1	NONE	Single
2	NONE	Single
3	NONE	Single
4	NONE	Single
5	NONE	Single
6	NONE	Single
7	NONE	Single
8	NONE	Single

Web Interface

Using the built-in Web Server

Access the built-in Web interface by entering the IP address of the matrix that was specified in step 3 under [IP / Telnet Configuration](#). Once connected, the View Matrix Status page will be displayed.

The Web interface is divided into five main pages: **View Matrix Status**, **Manage EDID**, **Masking**, **IP Configuration**, and **Power Management**. Each of these pages is represented by a tab. Click on the desired tab to open the page. The Manage EDID page has its own set of tabs which can be accessed.

View Matrix Status

VIEW MATRIX STATUS

Click this button access this menu system.



Matrix Status

Displays the current routing status of each input and output on the matrix.

Dynamic EDID Mode
Update Dynamic EDID State: On Off

Output	Input	Status	Audio
Output_1	Input_1	Active	Input_1
Output_2	Input_2	Active	Input_2
Output_3	Input_3	Active	Input_3
Output_4	Input_4	Active	Input_4
Output_5	Input_5	Active	Input_5
Output_6	Input_6	Active	Input_6
Output_7	Input_7	Active	Input_7
Output_8	Input_8	Active	Input_8

Auto Refresh

Refresh

Click to refresh the Matrix Status screen

Auto Refresh

Check this box to enable Auto Refresh. The Auto Refresh function automatically refreshes the interface every 10 seconds.

Update Dynamic EDID State

Dynamic EDID mode can be enabled or disabled by selecting the **Off** or **On** radio buttons. See [#dynamic_edid](#) for more information on using Dynamic EDID.

Dynamic EDID Mode

Update Dynamic EDID State Off On

Switch Outputs

Outputs

Output_1

Output_6

Output_2

Output_7

Output_3

Output_8

Output_4

Inputs

Input_1

Input_6

Input_2

Input_7

Input_3

Input_8

Input_4

Main State			
Output	Input	Status	Audio
Output_1	Input_1	Active	Input_1
Output_2	Input_2	Active	Input_2
Output_3	Input_3	Active	Input_3
Output_4	Input_4	Active	Input_4
Output_5	Input_5	Active	Input_5
Output_6	Input_6	Active	Input_6
Output_7	Input_7	Active	Input_7
Output_8	Input_8	Active	Input_8

Dynamic EDID Mode

Update Dynamic EDID State: Off On

Switch Outputs

Outputs

Output_1 Output_2 Output_3 Output_4

Output_5 Output_6 Output_7 Output_8

Inputs

Input_1 Input_2 Input_3 Input_4

Input_5 Input_6 Input_7 Input_8

Independent Audio Mode

Update Independent Audio State: No Yes

Input_1 Input_2 Input_3 Input_4

Input_5 Input_6 Input_7 Input_8

Presets

Save Current Routing State to Preset:

Recall Routing State:

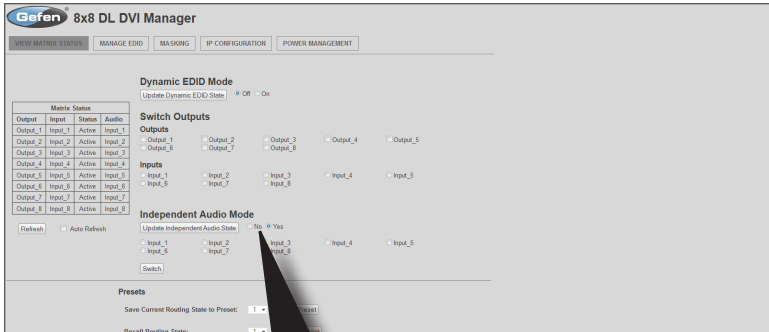
Rename I/O

Output:

Input:

Switch Outputs

Used to route the specified input to the selected output(s). To route a source, place a check mark next to each Output. Next, click the radio button next to the desired Input. Click the **Switch** button (see next page) to apply the routing change.



Independent Audio Mode

Update Independent Audio State

No Yes

Input_1

Input_2

Input_3

Input_4

Input_6

Input_7

Input_8

Switch

Independent Audio Switch

Enables / disables independent audio switching. Click the **Yes** radio button to enable independent audio switching. To disable, click the **No** radio button.

Once independent audio switching is enabled, click the radio button next to the desired Input. Each input can be independently enabled or disabled.

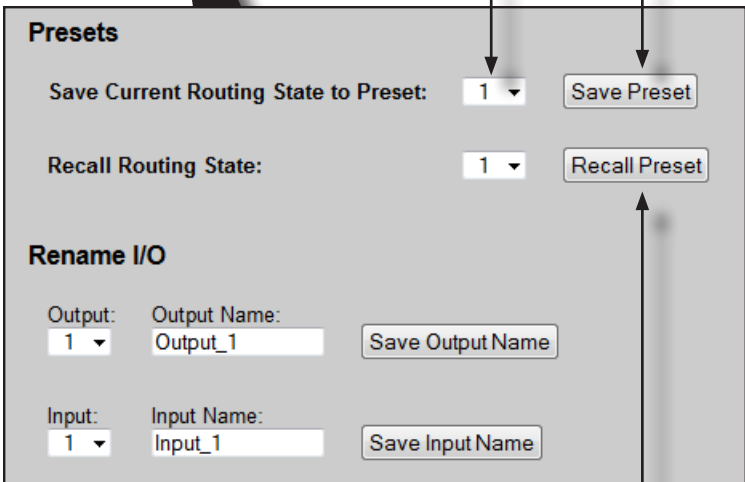
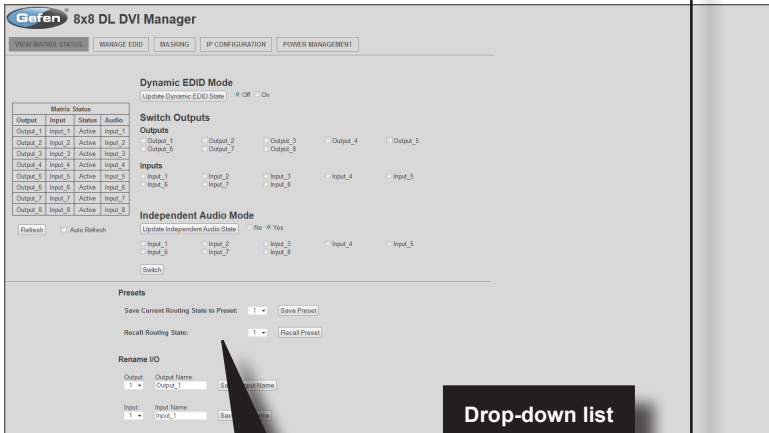
Click the **Switch** button to apply the changes.

Switch

Click this button to apply the routing changes.

Save Preset

Click the down-arrow on the pull-down list to select the preset location (1 - 8). Click the **Save Preset** button to save the preset.

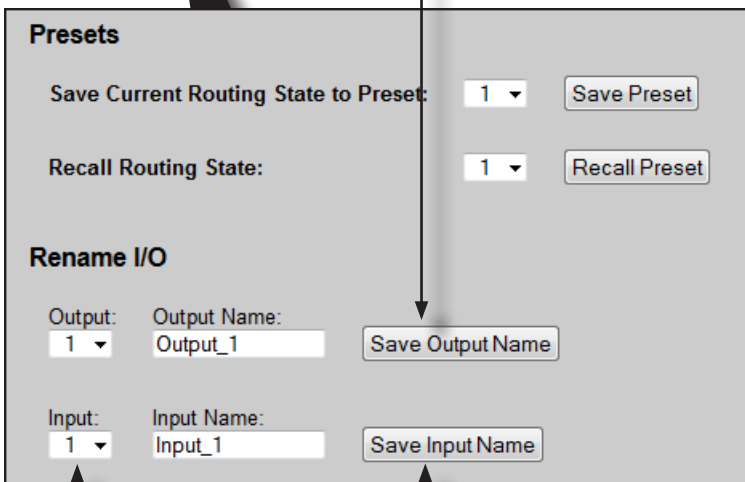
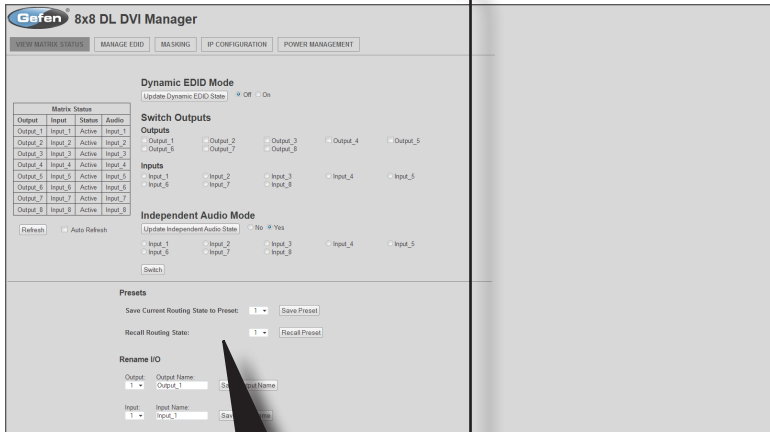


Recall Preset

Click the down-arrow on the pull-down list to select the routing state (1 - 8) to recall. Click the **Recall Preset** button to recall the preset.

Save Output Name

Click the down-arrow on the drop-down list to select the desired output (1 - 8). Enter the name of the output in the **Output Name** field. Click the **Save Output Name** button to rename the output.



Drop-down list

Save Input Name

Click the down-arrow on the drop-down list to select the desired input (1 - 8). Enter the name of the output in the **Input Name** field. Click the **Save Input Name** button to rename the input.

Manage EDID

Set Input to Default EDID

Set Input to Default EDID

Press this button from the **Manage EDID** screen to access this menu system.

Set Input to Default EDID

EDID Status - Lock State: ON

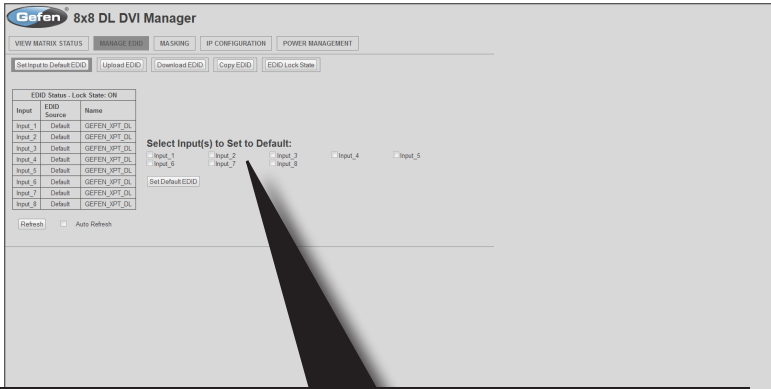
Input	EDID Source	Name
Input_1	Default	GEFEN_XPT_DL
Input_2	Default	GEFEN_XPT_DL
Input_3	Default	GEFEN_XPT_DL
Input_4	Default	GEFEN_XPT_DL
Input_5	Default	GEFEN_XPT_DL
Input_6	Default	GEFEN_XPT_DL
Input_7	Default	GEFEN_XPT_DL
Input_8	Default	GEFEN_XPT_DL

Refresh **Auto Refresh**

Refresh
Click to refresh the Matrix Status screen

Auto Refresh
Check this box to enable Auto Refresh. The Auto Refresh function automatically refreshes the interface every 10 seconds.

EDID Status
Displays the current EDID status for each input on the matrix and indicates the current Lock State.



Select Input(s) to Set to Default:

Input_1 Input_2 Input_3 Input_4

Input_6 Input_7 Input_8

Set Default EDID

Place a check mark next to the input(s) that should be set to the default EDID. Click the **Set Default EDID** button to apply the default EDID to the selected inputs.

Upload EDID

Upload EDID

Press this button from the **Manage EDID** screen to access this menu system.

The screenshot shows the 'Gefen 8x8 DL DVI Manager' web interface. The 'Manage EDID' tab is active, and the 'Upload EDID' button is highlighted with a callout box. Below the main interface, a detailed view of the 'Upload EDID File' dialog is shown. The dialog contains a table of input sources, checkboxes to select input(s) to upload to, a 'Browse...' button to upload the EDID file, and a 'Load EDID file' button.

Input	EDID Source	Name
Input_1	Default	GEFEN_XPT_DL
Input_2	Default	GEFEN_XPT_DL
Input_3	Default	GEFEN_XPT_DL
Input_4	Default	GEFEN_XPT_DL
Input_5	Default	GEFEN_XPT_DL
Input_6	Default	GEFEN_XPT_DL
Input_7	Default	GEFEN_XPT_DL
Input_8	Default	GEFEN_XPT_DL

Select Input(s) to Upload to:

Input_1 Input_2 Input_3 Input_4
 Input_6 Input_7 Input_8

Upload EDID File

(Browse...)

Load EDID file

Load EDID file

Load EDID file

Place a check mark next to the input(s) that will receive the EDID data from the file. The EDID file must be in .bin format. Click the **Browse** button to locate the EDID on the computer. Click the **Load EDID file** button to upload the EDID file to the matrix.

Download EDID

Download EDID

Press this button from the **Manage EDID** screen to access this menu system.

The screenshot shows the 'Gefen 8x8 DL DVI Manager' web interface. At the top, there are tabs for 'VIEW MATRIX STATUS', 'MANAGE EDID', 'MAPPING', 'IP CONFIGURATION', and 'POWER MANAGEMENT'. Under the 'MANAGE EDID' tab, there are buttons for 'Set Input to Default EDID', 'Upload EDID', 'Download EDID', 'Copy EDID', and 'EDID Lock State'. A callout box highlights the 'Download EDID' button.

Below the buttons is a table with columns 'Input', 'EDID Source', and 'Name'. The table lists inputs 1 through 8, each with a 'Default' source and a 'GEFEN_XPT_DL' name. To the right of the table is a 'Select EDID to Download' dialog with radio buttons for 'Output_1' through 'Output_8'. A 'Download EDID File to PC' button is at the bottom of the dialog. A callout box highlights this button.

Download EDID File to PC

Select the radio button next to the output, containing the EDID to be downloaded. Click the **Download EDID File to PC** button to confirm the change. The downloaded EDID file will be in .bin format.

Copy EDID

Copy EDID

Click this button from the **Manage EDID** screen to access this menu system.

The screenshot shows the 'Gefen 8x8 DL DVI Manager' web interface. A button labeled 'Copy EDID' is highlighted with a callout box. Below it, a detailed view of the 'Select Source to Copy from' dialog box is shown. The dialog box contains the following sections:

- Select Source to Copy from:**
 - Output(s):** Radio buttons for Output_1, Output_2, Output_3, Output_4, Output_6, Output_7, and Output_8.
 - Inputs(s):** Radio buttons for Input_1, Input_2, Input_3, Input_4, Input_6, Input_7, and Input_8.
- Select Input(s) to Copy to:** Check boxes for Input_1, Input_2, Input_3, Input_4, Input_6, Input_7, and Input_8.
- Set EDID** button.

Select Source to Copy from / Select Input(s) to Copy to

Click the radio button next to the input or output containing the EDID to copy. Note that only a single input or output can be selected at a time. Place a check mark next to the input(s) where the EDID will be copied. Click the **Set EDID** button to confirm the operation.

EDID Lock State

EDID Lock State

Press this button from the **Manage EDID** screen to access this menu system.

The screenshot shows the Gefen 8x8 DL DVI Manager web interface. The top navigation bar includes buttons for 'VIEW MATRIX STATUS', 'MANAGE EDID', 'MASKING', 'IP CONFIGURATION', and 'POWER MANAGEMENT'. Below this, there are buttons for 'Set Input to Default EDID', 'Upload EDID', 'Download EDID', 'Copy EDID', and 'EDID Lock State'. The main content area displays the 'EDID Lock State' menu, which includes a table of input sources and their default settings, and a section for 'Update EDID Lock State' with radio buttons for 'Off' and 'On'. A callout box highlights the 'EDID Lock State' button in the top navigation bar, and another callout box highlights the 'Update EDID Lock State' button and the radio buttons in the main content area.

Update EDID Lock State

Secures the Local EDID and disables the automatic loading of the downstream EDID after the Matrix is powered on. Select the radio button next to the **Off** or **On** option then click the **Update EDID Lock State** button to apply the change.

The EDID Lock State has no effect when the Dynamic EDID function is activated.

Masking

MASKING

Click this button access this menu system.

MASKING

Matrix Mask Status/Change

Output	Input	Status	Click to:
Output_1	Input_1	Active	Mask
Output_2	Input_2	Active	Mask
Output_3	Input_3	Active	Mask
Output_4	Input_4	Active	Mask
Output_5	Input_5	Active	Mask
Output_6	Input_6	Active	Mask
Output_7	Input_7	Active	Mask
Output_8	Input_8	Active	Mask

Refresh — Click to refresh the Matrix Status screen

Auto Refresh — Check this box to enable Auto Refresh. The Auto Refresh function automatically refreshes the interface every 10 seconds.

Save Changes — Click this button...

Mask — Click the **Mask** button to mask the desired output. If the output is not masked then the button will read *Active* (masking disabled). Click the *Active* button to toggle the mask the output masking state to *Mask* (masking enabled).

IP Configuration

IP CONFIGURATION

Click this button access this menu system.

The screenshot shows the 'Gefen 8x8 DL DVI Manager' web interface. At the top, there are navigation tabs: 'VIEW MATRIX STATUS', 'MANAGE EDD', 'MASKING', 'IP CONFIGURATION', and 'POWER MANAGEMENT'. The 'IP CONFIGURATION' tab is selected. Below the tabs, there are two main sections: 'IP Settings' and 'Telnet Login Settings'. The 'IP Settings' section includes fields for MAC Address (00:1C:91:01:00:00), IP Address (192.168.2.232), Subnet (255.255.255.0), Gateway (192.168.2.1), HTTP Port (80), and Telnet Port (23). A 'Save' button is located below these fields. The 'Telnet Login Settings' section includes fields for User Name (Admin), Password (Admin), a 'Force Login' checkbox (unchecked), and a 'Welcome message' checkbox (checked). A 'Save' button is also present at the bottom of this section. A 'Reset IP Configuration to Defaults' button is located between the two sections. A callout box titled 'IP CONFIGURATION' with an arrow points to the 'IP CONFIGURATION' tab. Another callout box titled 'IP Settings' with an arrow points to the 'IP Settings' section. A third callout box titled 'Telnet Login Settings' with an arrow points to the 'Telnet Login Settings' section.

IP Settings

Assigns IP address, subnet, gateway, HTTP listening port, and Telnet port. The MAC address can not be changed. Click the **Save** button to apply changes. The matrix must be rebooted for the changes to take effect.

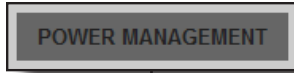
Telnet Login Settings

Sets the user name and password for Telnet sessions to the matrix. Click the **Save** button to apply changes.

Power Management

POWER MANAGEMENT

Click this button access this menu system.



Gefen 8x8 DL DVI Manager

VIEW MATRIX STATUS | MANAGE EDD | MASKING | IP CONFIGURATION | **POWER MANAGEMENT**

Warning: Use caution when applying power to inputs. It may damage your equipment.

Input	5 volt	Click to:
Input_1	OFF	ON
Input_2	OFF	ON
Input_3	OFF	ON
Input_4	OFF	ON
Input_5	OFF	ON
Input_6	OFF	ON
Input_7	OFF	ON
Input_8	OFF	ON

Refresh Auto Refresh

Save Changes

Power Lock State
Update Power Lock State: Off On

Power Status - Lock State: OFF

Input	5 volt	Click to:
Input_1	OFF	ON
Input_2	OFF	ON
Input_3	OFF	ON
Input_4	OFF	ON
Input_5	OFF	ON
Input_6	OFF	ON
Input_7	OFF	ON
Input_8	OFF	ON

Refresh Auto Refresh

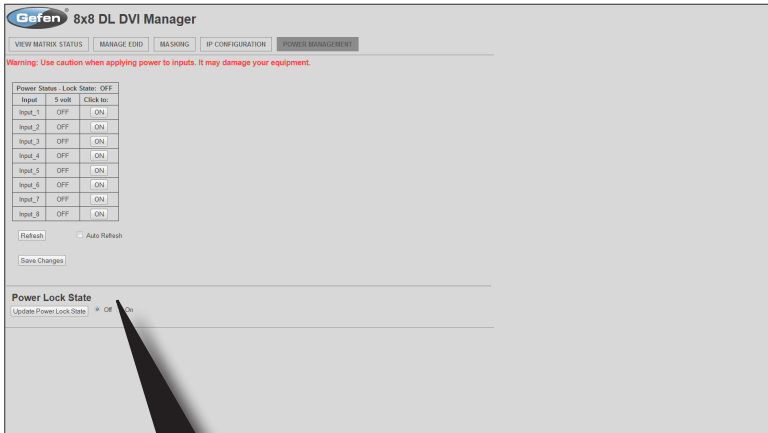
Save Changes

Refresh
Click to refresh the Power Status screen

Save Changes
Click to save the power lock status.

Auto Refresh
Check this box to automatically update the screen every 10 seconds.

Power State
The current power state is listed under the column titled "5 Volt". Click these buttons to toggle the input power state.



Power Lock State

In the case of an accidental power loss to the matrix, the +5V state for each input can be preserved.

Set the specified Power Status buttons (see previous page) and click the ON button. Click the **Update Power Lock State** button to apply changes.

By default, this option is set to Off.

8x8 | DVI KVM
sources displays | Dual Link Matrix
with Push Button Control

04 Appendix

Specifications	90
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Specifications

Supported Formats

Resolutions (max.)	<ul style="list-style-type: none"> • 3840 x 2400 • 2560 x 1600 • 1080p Full HD
--------------------	---

Electrical

Maximum Pixel Clock	<ul style="list-style-type: none"> • 2 x 165 MHz
---------------------	---

Connectors

Video Inputs	<ul style="list-style-type: none"> • 8 x DVI-I, 29-pin, female
Video Outputs	<ul style="list-style-type: none"> • 8 x DVI-I, 29-pin, female
USB Inputs	<ul style="list-style-type: none"> • 8 x USB 2.0, Type-B
USB Outputs	<ul style="list-style-type: none"> • 16 x USB 2.0, Type-A
Audio Inputs	<ul style="list-style-type: none"> • 8 x 3.5mm mini-stereo
Audio Outputs	<ul style="list-style-type: none"> • 8 x 3.5mm mini-stereo
IR Extender	<ul style="list-style-type: none"> • 1 x 3.5mm mini-stereo
RS-232	<ul style="list-style-type: none"> • 1 x DB-9, female
Ethernet	<ul style="list-style-type: none"> • 1 x RJ-45, shielded

Operational

Power Input	<ul style="list-style-type: none"> • 100 - 240V AC
Power Consumption	<ul style="list-style-type: none"> • 90W (max.)
Operating Temperature	<ul style="list-style-type: none"> • +32 to +104 °F (0 to +40 °C)

Physical

Dimensions (W x H x D)	<ul style="list-style-type: none"> • 17.25" x 3.5" x 11.6" (438mm x 89mm x 295mm)
Unit Weight	<ul style="list-style-type: none"> • 16.4 lbs (7.4 kg)



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