DIGI-HD-4X8

4 input by 8 output Matrix Switcher

HIGH-DEFINITION MULTIMEDIA INTERFACE

DESIGN WITH INTELLIGENCE

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DESIGN WITH INTELLIGENCE

Rev. 1109

Important Safety Instructions

- **Please completely read and verify you understand all instructions in this manual before operating this equipment.**
- Keep these instructions in a safe, accessible place for future reference.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Use only accessories specified or recommended by Intelix.
- Explanation of graphical symbols:
    - Lightning bolt/flash symbol: the lightning bolt/flash and arrowhead within an equilateral triangle symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure which may be of sufficient magnitude to constitute a risk of shock to a person or persons.

    - Exclamation point symbol: the exclamation point within an equilateral triangle symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions tin the literature accompanying the product.

- **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.**
- Use the mains plug to disconnect the apparatus from the mains.
- **THE MAINS PLUG OF THE POWER SUPPLY CORD MUST REMAIN READILY ACCESSIBLE.**
- Do not defeat the safety purpose 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 is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of your obsolete outlet. **Caution! To reduce the risk of electrical shock, grounding of the center pin of this plug must be maintained.**
- Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and the point where they exit from the apparatus.
- Do not block the air ventilation openings. Only mount the equipment per Intelix's instructions.
- Use only with the cart, stand, tripod, bracket, table, or rack specified by Intelix or sold with the equipment. When/if a cart is used, use caution when moving the cart/equipment combination to avoid injury from tip-over.

- Unplug this apparatus during lightning storms or when unused for long periods of time.
- **Caution!** Shock Hazard. Do not open the unit. Refer 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.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the 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.

Overview

Why settle for mediocrity? The Intelix DIGI-HD-4X8 combines a professional-grade HDMI matrix with Intelix's industry-leading extenders. A true matrix switcher, the DIGI-HD-4X8 features four HDMI inputs, eight HDMI outputs *and* eight twisted pair extender outputs—and both HDMI and twisted pair outputs are live simultaneously. When used in conjunction with a compatible Intelix twisted pair receiver, the matrix extends output signals up to 300 feet over a single twisted pair cable. Trademarked HDshāk processing provides remote EDID storing and enhanced bandwidth limiting, thereby allowing the installer to optionally disable high-bandwidth HDMI elements—such as deep color and HD multi-channel audio—to guarantee performance when using low-grade cables.

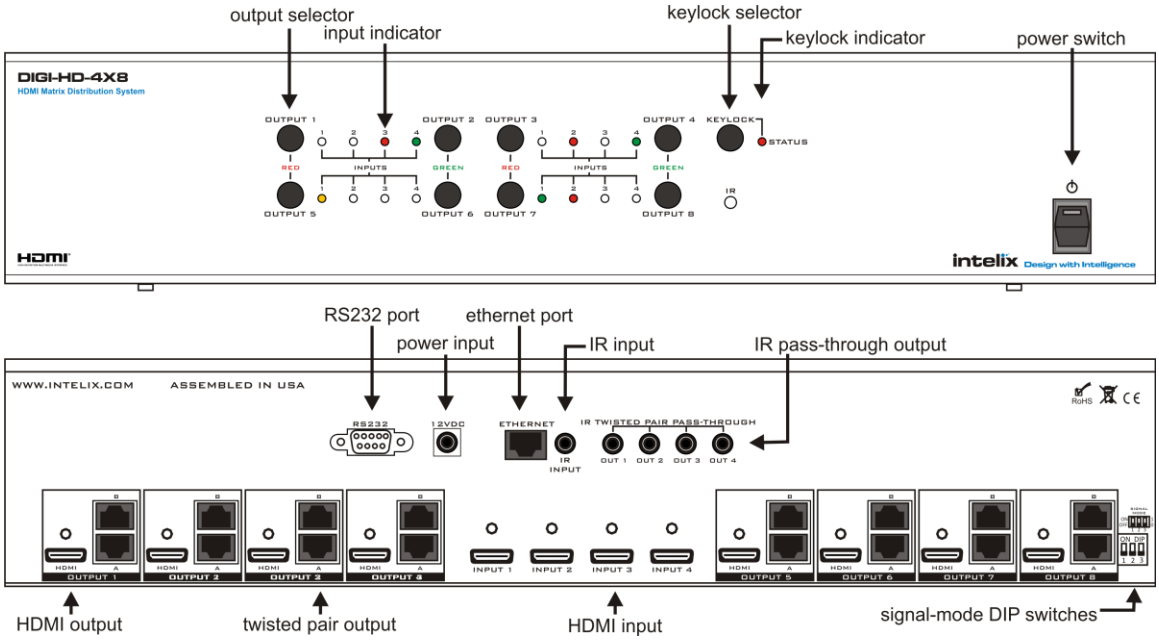
The matrix supports 1080i and 1080p high-definition video and is HDCP compliant. All operations are controlled via a diagnostic front panel interface or remotely via RS232, IR, or Ethernet. The system also ships with a wireless remote control and includes a 19" rack-mount kit.

In addition, the DIGI-HD-4X8 also features four pass-through IR channels which distribute remote IR commands from in-room controllers over the twisted pair cable and out of the matrix, thereby allowing complete control of remote sources from the destination. The IR channels follow the matrix switching.

Design with Intelix and Design with Intelligence.

DIGI-HD-4X8 Package Contents

- DIGI-HD-4X8 matrix switcher
- 12 VDC 5A power supply
- (2) 19" rack-mounting ears
- (4) Shelf feet
- Wireless remote control
- Manual
- (4) IR emitters
- (1) IR receiver
- (1) USB to Serial Adapter



Installation

To install the Intelix DIGI-HD-4X8 matrix switcher, please perform the following steps.

1. If mounting in a 19" audio/video rack, attach the 19" rack ears to the DIGI-HD-4X8. The DIGI-HD-4X8 requires 2 rack units of spacing. If placing on a shelf, attach the shelf feet to the DIGI-HD-4X8.

> *Ventilation when Rack Mounting*
>
> - At least 2 inches of free air space is required on both sides of the DIGI-HD-4X8 for proper side ventilation.
> - Ensure there are no closeable doors on the rack that might seal the DIGI-HD-4X8 from a steady supply of cool air.
> - Avoid mounting the DIGI-HD-4X8 near a power amplifier or any other source of significant heat.
> - It is recommended that you leave an empty rack space above and below the DIGI-HD-4X8 for additional cooling.

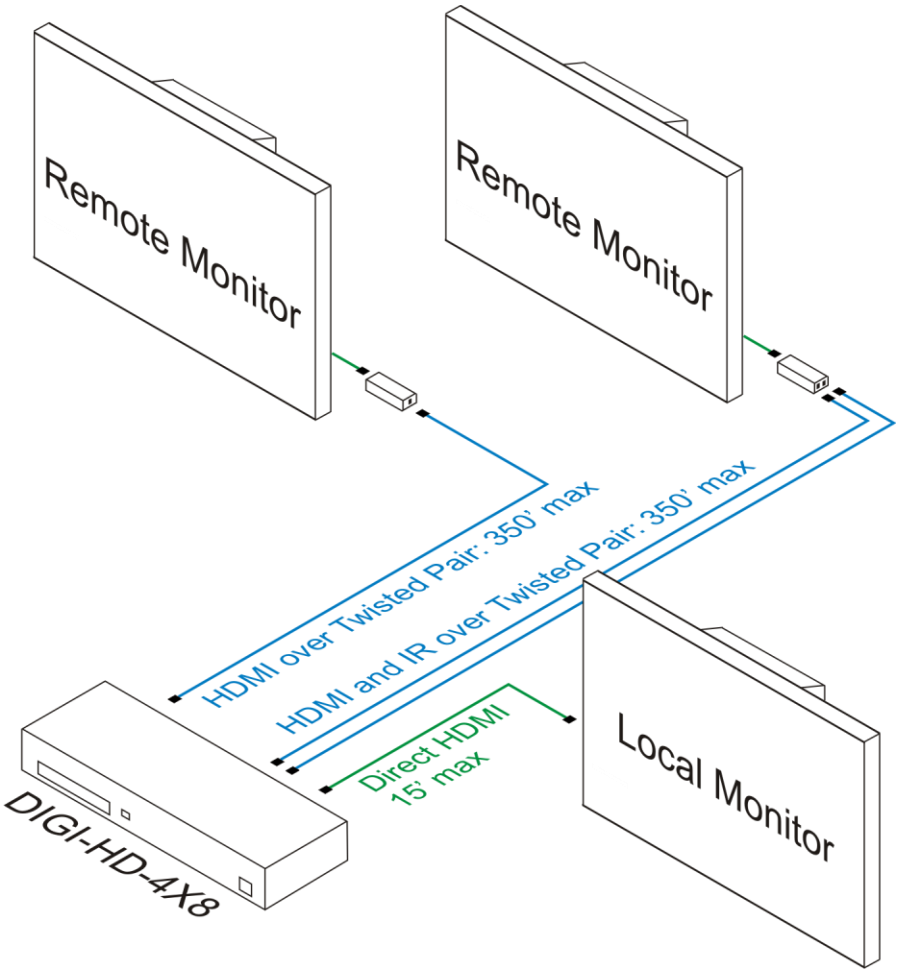
2. Power-off the source and destination audio and video devices.

> **Note:** All connecting audio-visual equipment must be powered off.

3. Connect the input sources to the DIGI-HD-4X8 using high-quality HDMI cables.

4. Connect the output destinations to the DIGI-HD-4X8 using high-quality HDMI cables.

5. For long distance destinations, connect one or two twisted pair cables per run to the DIGI-HD-4X8 (twisted pair receivers sold separately).



Recommended Twisted Pair Receivers

	Signals	Twisted Pair Cables Required
DIGI-HD-UHR2-R	HDMI	1
DIGI-HD-IR2-R	HDMI and IR	2

Recommended Twisted Pair Distances

	1080p	1080i	720p	480i/p
Cat 6a (shielded)	150’	300’	300’	300’
Cat 6	110’	220’	220’	220’
Cat 5e	100’	200’	200’	200’

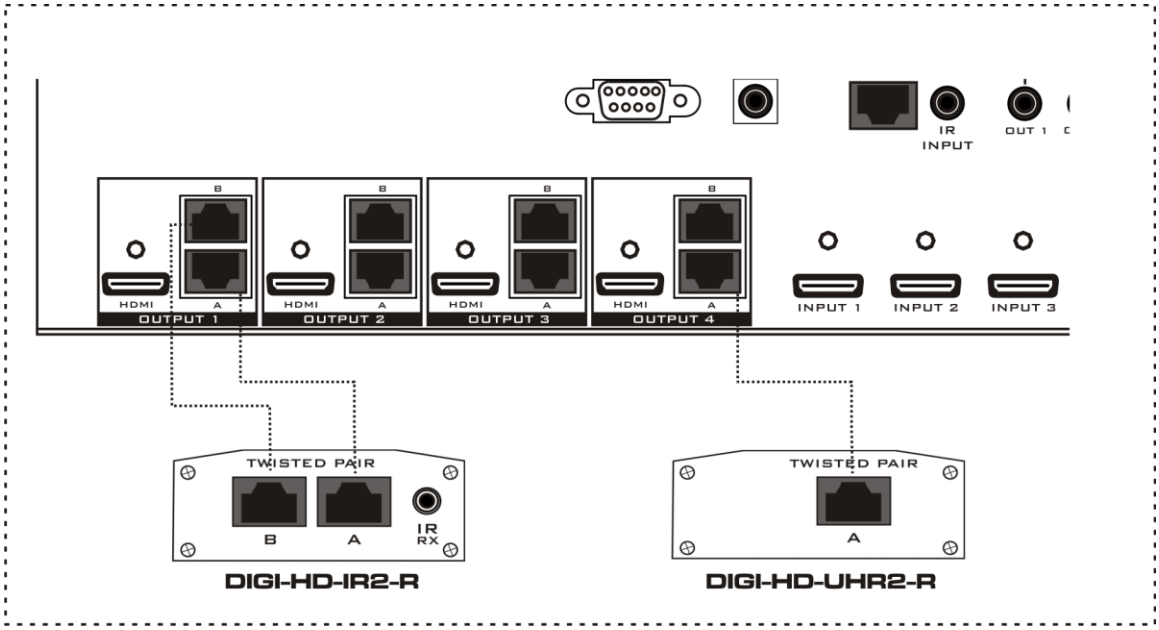
6. Connect the included 12 VDC power supply to the DIGI-HD-4X8.
7. If controlling remotely, connect RS232, Ethernet, or IR control cables.
8. Power-on the DIGI-HD-4X8.
9. Power-on the source and destination audio and video devices.

Twisted Pair Settings

The DIGI-HD-4X8 is compatible with both single twisted pair extenders (DIGI-HD-UHR2-R) and double twisted pair extenders (DIGI-HD-IR2-R). The different modes of operation are changed through DIP switch settings outlined on page 8.

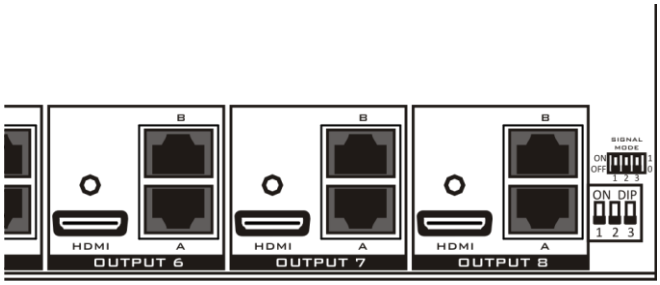
Alternatively, the different modes of operation are toggled through RS232 or IP commands. This includes the ability to set each output to single OR dual mode, allowing for a mixture of single/dual extenders to be attached to the UTP outputs. Please visit Intelix's online technical library to download the latest version of the software package: http://www.intelix.com/tech_library/software.htm.

When connecting compatible UTP receivers, connect "A" outputs to "A" inputs and "B" outputs to "B" inputs, as shown below.



Signal Mode Settings: HDshāk Inside

The DIGI-HD-4X8 features HDshāk processing, which is activated and toggled through the signal mode DIP switches on the rear of the unit.



To change the signal mode:

1. Power off the DIGI-HD-4X8.
2. Unplug ALL input connectors. Failure to do so will prevent unit from loading desired EDID.
3. Set the DIP switches to the desired setting.
4. Power on the DIGI-HD-4X8.

DIP 1	DIP 2	DIP 3	EDID Function
off	off	off	**Dual Twisted Pair Mode – 1080p – stereo audio** The matrix is preset with EDID for 1080p video and PCM stereo audio.
off	on	off	**Dual Twisted Pair Mode – 1080p – 5.1 audio** The matrix is preset with EDID for 1080p video and Dolby Digital 5.1, DTS 5.1, and PCM stereo audio.
on	off	off	**Dual Twisted Pair Mode – EDID copy** The matrix uses custom EDID copied from outputs.
on	on	off	**Dual Twisted Pair Mode – 1080i – stereo audio** The matrix is preset with EDID for 1080i video and PCM stereo audio.
off	off	on	**Single Twisted Pair Mode – 1080p – stereo audio** The matrix is preset with EDID for 1080p video and PCM stereo audio.
off	on	on	**Single Twisted Pair Mode – 1080p – 5.1 audio** The matrix is preset with EDID for 1080p video and Dolby Digital 5.1, DTS 5.1, and PCM stereo audio
on	off	on	**Single Twisted Pair Mode – EDID copy** The matrix uses custom EDID copied from outputs.
on	on	on	**Single Twisted Pair Mode – 1080i – stereo audio** The matrix is preset with EDID for 1080i video and PCM stereo audio.

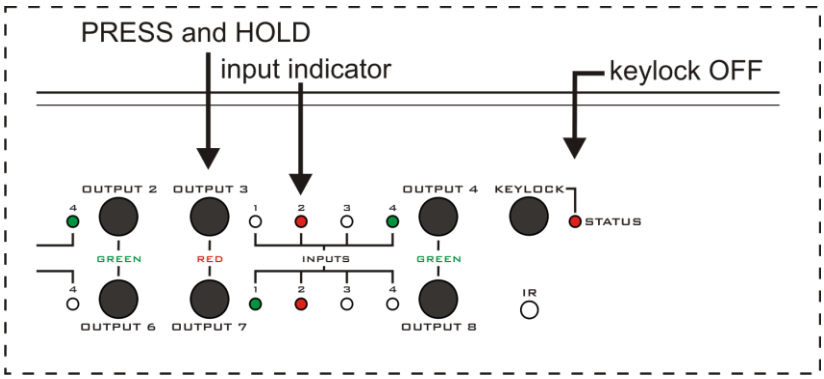
EDID Copy Operation

The DIGI-HD-4X8 allows custom EDID information to be copied from an output to be stored at each input. One EDID table can be stored at each input. This table is stored until it is overwritten by performing a new copy.

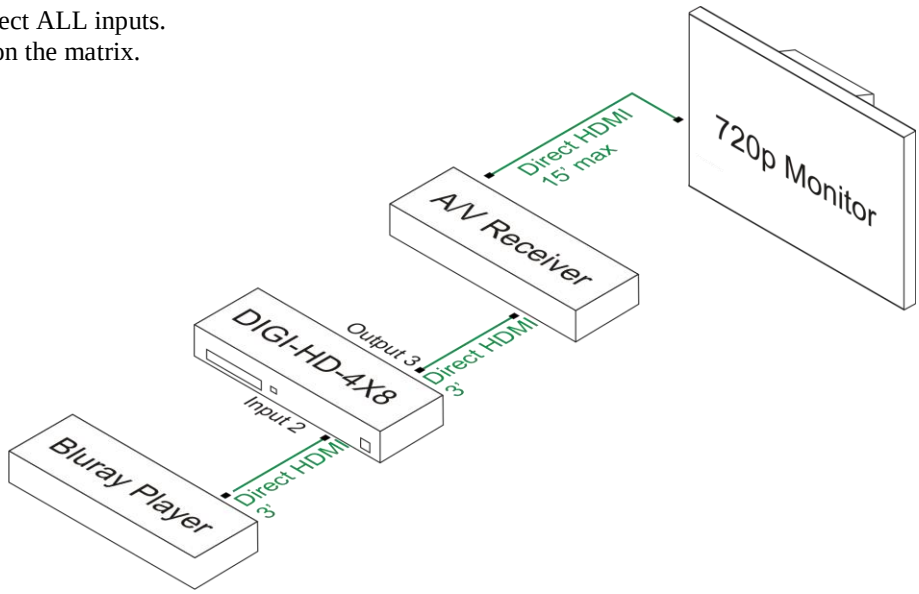
1. Determine the output you would like to copy from and the input you would like to copy it to.
2. Power off the matrix.
3. Disconnect ALL inputs.
4. Put the matrix into "EDID Copy Mode" (see table on page 8)
5. Connect the device with the desired EDID to the chosen output with an HDMI cable. (example: Output 3)

> *Note: EDID copy cannot be performed over a single UTP extender – you must use a dual UTP extender or an HDMI cable (preferred).*

6. Power on the matrix.
7. Use the "Output Select" button that corresponds to the output you wish to copy to select the input you wish to copy to. (example: Output 3, Input 2)
8. Press and hold "Output Select" button for 3-5 seconds until front panel LEDs flash twice. This indicates that the copy was successful.



9. Repeat steps 7 & 8 to copy EDID to other inputs (example: Output 3, Input 3)
10. Power off the matrix.
11. Reconnect ALL inputs.
12. Power on the matrix.



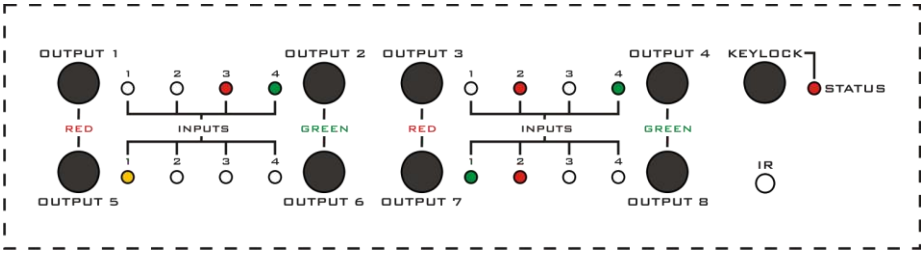
Operation

To operate the Intelix DIGI-HD-4X8 matrix switcher, please perform the following steps.

> **Note:** The DIGI-HD-4X8 features on-board memory. Settings are stored during power off and restored during power on.

Front Panel Control

The DIGI-HD-4X8 features front panel control for switching inputs to the various outputs. Each output is represented by a button. Pushing the button toggles what input is being routed to the output.



1. Determine if the DIGI-HD-4X8 front panel is locked. If the panel is locked, the keylock status indicator LED will be illuminated. If the panel is locked, unlock it by selecting the keylock selector button.

2. Determine which output you wish to change.

3. On the determined output, push the "Output Select" button. The input indicator will cycle through the inputs. RED indicates the ODD outputs, GREEN indicates the EVEN outputs, and AMBER indicates both outputs are routed to the same input.

4. **Optional:** Once the desired input is selected, lock the front panel by pressing the keylock button.

> **Note:** The DIGI-HD-4X8 front panel will automatically lock after one minute of inactivity.

Included Remote Control

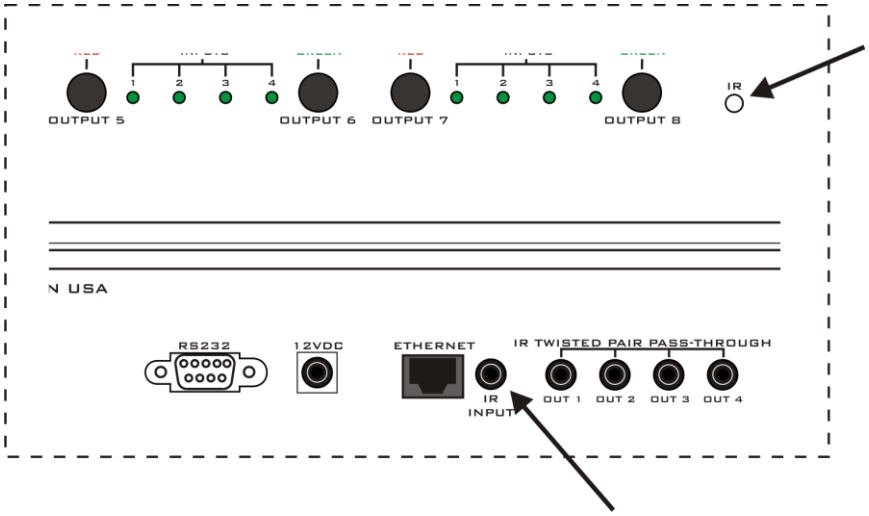
The DIGI-HD-4X8 includes a wireless remote control for switching inputs to the various outputs. Each output is represented by a bank of buttons on the remote control.

1. Determine which output you wish to change.

2. On the determined output, select the desired input number.

IR Remote Control

The DIGI-HD-4X8 supports remote control through a front panel IR sensor and a rear panel 1/8" (3.5 mm) input jack.



1. If controlling the DIGI-HD-4X8 through the 1/8" (3.5 mm) input jack on the rear panel, connect the IR receiver (eye) directly to the matrix.

> **Note:** Operation of the rear panel IR input will disable the front panel IR sensor. **3rd party IR systems are not compatible.**

2. If controlling the DIGI-HD-4X8 through the IR sensor on the front panel, place an IR emitter directly over the front panel sensor.

IR Emitter Mounting Tips

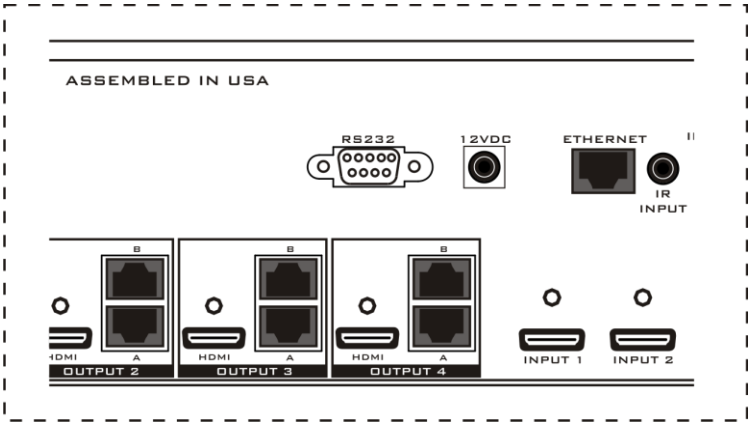
- Surrounding electrical equipment may be producing high levels of IR noise. Plasma TVs and compact fluorescent lights are known polluters. Shield the outside of the emitter and the hardware's IR window with electrical tape.
- Verify the emitter is directly on the hardware's IR window and directly over the IR sensor. Operation may be intermittent if the emitter is too far away from the sensor.
- Clean the DIGI-HD-4X8 IR sensor window with an alcohol-based cleaner before applying the emitter to guarantee adhesion.

IR Commands for 3rd Party Control Systems

Some 3rd party control systems will accept text data as well as utilizing command learning. Go to http://www.intelix.com/tech_library/software.htm for an electronic document of these commands.

RS232 Remote Control

The DIGI-HD-4X8 supports remote control through a rear panel RS232 control port.



1. If controlling the DIGI-HD-4X8 through the RS232 control port on the rear panel, connect a straight-through serial cable directly to the matrix.

DIGI-HD-4X8 RS232 Settings

Settings	
Bits per second	9600
Data bits	8
Parity	None
Stop bits	1
Flow control	Hardware

DIGI-HD-4X8 RS232 Codes

***** \r = Carriage Return (hex=0D)

***** \n= Line Feed (hex=0A)

***** <sp> = Space (hex=20) is required as part of command

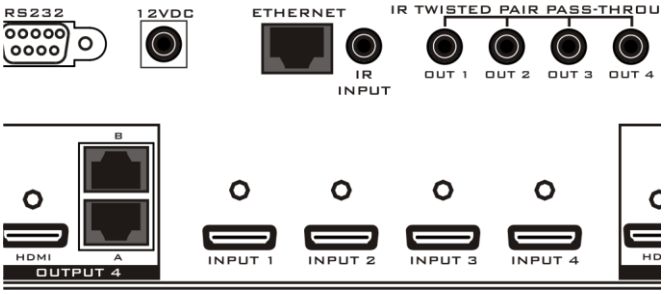
Misc. Commands		
Function	**Code**	**Return String**
Get Device Type	br<sp>\r	ASCII String "DIGI-HD-4X8"
Get Crosspoint Status	bc<sp>\r	ASCII string in the format of: "\r\n" + "s1Ys2Ys3Ys4Ys5Ys6Y s7Ys8Y" + "\r\n" where Y is the input source being routed to each output. The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4 The outputs channels map as follows: s1 = output 1 s2 = output 2 s3 = output 3 s4 = output 4 s5 = output 5 s6 = output 6 s7 = output 7 s8 = output 8
Get UTP Mode	gup<sp>\r	ASCII string in the format of: u1Xu2Xu3Xu4Xu5Xu6 Xu7Xu8X" + "\r\n" where X is the UTP Mode. The value of X maps as follows: 0 = dual UTP 1 = single UTP The outputs channels map as follows: u1 = output 1 u2 = output 2 u3 = output 3 u4 = output 4 u5 = output 5 u6 = output 6 u7 = output 7 u8 = output 8

Set UTP Mode	ASCII string in the format of: uZX<sp>\r where Zis the ouput number and X is the UTP Mode. The value of X maps as follows: 0 = dual UTP 1 = single UTP The outputs channels map as follows: u1 = output 1 u2 = output 2 u3 = output 3 u4 = output 4 u5 = output 5 u6 = output 6 u7 = output 7 u8 = output 8 For example to set output 4 to single UTP mode: TX: u41<sp>\r	Response is the same as the command; for example: TX: u21<sp>\r RX: u21<sp>\r
Set IP to DHCP	dhc <sp>\r	DHCP\r\n
Set IP Address	sip<sp>xxx.xxx.xxx.xxx \r Where x = IP address For example sip<sp>192.168.001.213 \r	Response includes machine language and should not be parsed. Response will look like: RX: IP<sp>Ä¨_Õ {pause for 10 seconds} {Display crosspoint status}
Reset Browser Password to 10 zeroes "0000000000"	rpw<sp>\r	rpw<sp>\r\n
Output 1 Commands		
Function	**Code**	**Return**
Select Input 1	cir<sp>09\r	s10
Select Input 2	cir<sp>1D\r	s11
Select Input 3	cir<sp>1F\r	s12
Select Input 4	cir<sp>0D\r	s13
Output 2 Commands		
Function	**Code**	**Return**
Select Input 1	cir<sp>19\r	s20
Select Input 2	cir<sp>1B\r	s21
Select Input 3	cir<sp>11\r	s22
Select Input 4	cir<sp>15\r	s23

Output 3 Commands		
Function	**Code**	**Return**
Select Input 1	cir<sp>17\r	s30
Select Input 2	cir<sp>12\r	s31
Select Input 3	cir<sp>59\r	s32
Select Input 4	cir<sp>08\r	s33
Output 4 Commands		
Function	**Code**	**Return**
Select Input 1	cir<sp>50\r	s40
Select Input 2	cir<sp>55\r	s41
Select Input 3	cir<sp>48\r	s42
Select Input 4	cir<sp>4A\r	s43
Output 5 Commands		
Function	**Code**	**Return**
Select Input 1	cir<sp>5E\r	s50
Select Input 2	cir<sp>06\r	s51
Select Input 3	cir<sp>05\r	s52
Select Input 4	cir<sp>03\r	s53
Output 6 Commands		
Function	**Code**	**Return**
Select Input 1	cir<sp>47\r	s60
Select Input 2	cir<sp>07\r	s61
Select Input 3	cir<sp>40\r	s62
Select Input 4	cir<sp>02\r	s63
Output 7 Commands		
Function	**Code**	**Return**
Select Input 1	cir<sp>18\r	s70
Select Input 2	cir<sp>44\r	s71
Select Input 3	cir<sp>0F\r	s72
Select Input 4	cir<sp>51\r	s73
Output 8 Commands		
Function	**Code**	**Return**
Select Input 1	cir<sp>0A\r	s80
Select Input 2	cir<sp>1E\r	s81
Select Input 3	cir<sp>0E\r	s82
Select Input 4	cir<sp>1A\r	s83

Ethernet Remote Control

The DIGI-HD-4X8 supports remote control through a rear panel Ethernet port. The matrix accepts control messages when connected to a local area network (LAN).



1. If controlling the DIGI-HD-4X8 through the Ethernet control port on the rear panel, connect an Ethernet cable directly to the matrix.

> **Note:** The DIGI-HD-4X8 will automatically be assigned an IP address when connected to a DHCP-enabled network.

2. Connect the opposite end of the Ethernet cable to a LAN port. Within 10 seconds of connecting the DIGI-HD-4X8 to the LAN, the yellow LED on the matrix's Ethernet port will stop blinking and the green LED will blink intermittently.

> **Connection Troubleshooting:** If the matrix does not respond with a green LED, please follow the steps below:
> - Verify the LAN has DHCP support.
> - Verify the LAN port is active.
> - If you continue to have issues getting the matrix to connect to the LAN, verify LAN connectivity using a PC. If you can not get a PC to connect, contact a network administrator for assistance

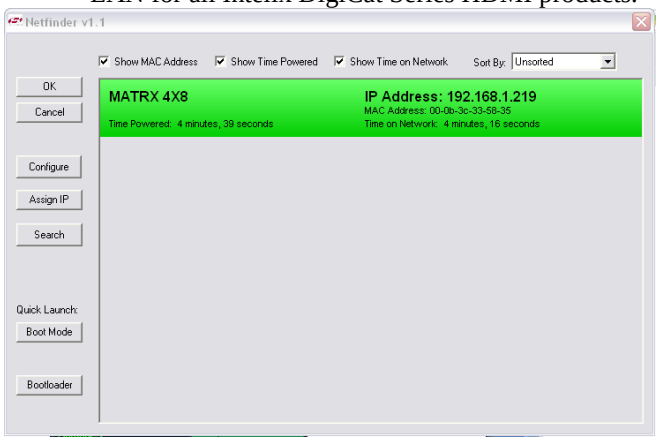
Controlling the Matrix over a LAN

Intelix provides a diagnostic software utility, NetFinder, to determine the IP address of the DIGI-HD-4X8. Please visit Intelix's online technical library to download the latest version of the software:
http://www.intelix.com/tech_library/software.htm.

1. Download and install *NetFinder* on your computer.

2. Launch the utility.

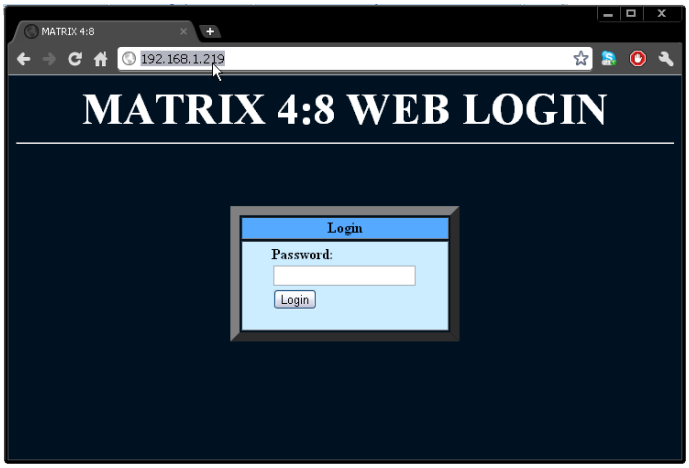
3. Click the *Search* button if no IP address is present. This will search the LAN for all Intelix DigiCat Series HDMI products.



4. Note the IP address of the matrix.

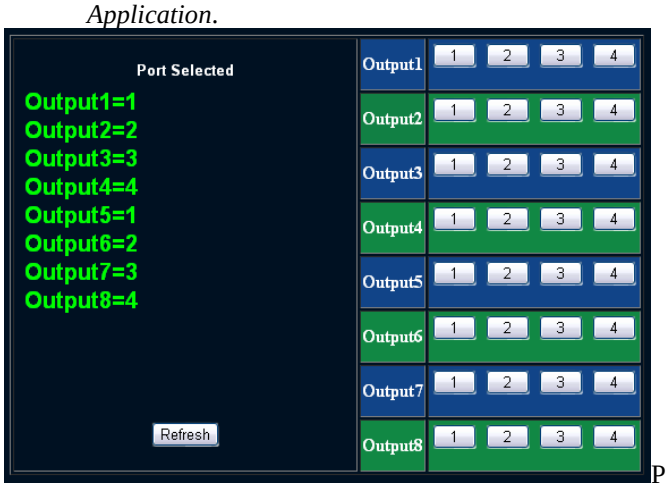
5. Open your web browser.

6. In the address field, enter the IP address of the desired matrix.



7. The default password for the DIGI-HD-4X8 is ten zeros (*0000000000*).

8. A welcome screen will launch, followed by the Intelix *Web Control Application*.



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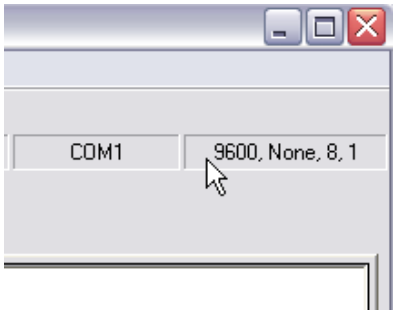
Static IP

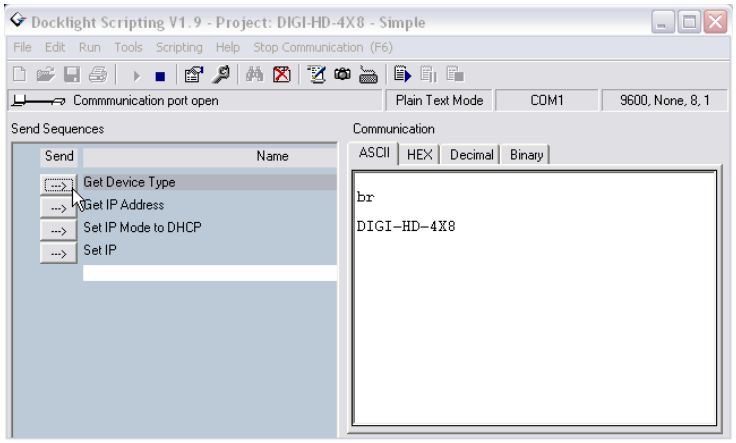
As a DHCP enabled device, the DIGI-HD-4X8 will automatically receive an IP address. However, control systems require that devices have a *fixed* IP address on the network. Using the Docklight utility, you can assign a static IP address to the DIGI-HD-4X8. This must be done using a serial connection.

1. Download and install the Docklight application from http://docklight.de/download/Docklight.zip
2. Download the "DIGI-HD-4X8 – Simple.ptp" file from the Intelix Online Technical Library. http://www.intelix.com/tech_library/software.htm
3. Connect your PC to the DIGI-HD-4x8 using a straight-thru serial cable, or with the included USB to serial adapter (installation instructions on page 20).
4. Run Docklight and open the DIGI-HD-4X8 - Simple.ptp file.
5. Verify COM port settings 9600, none, 8, 1 in the upper right hand corner of the Docklight screen

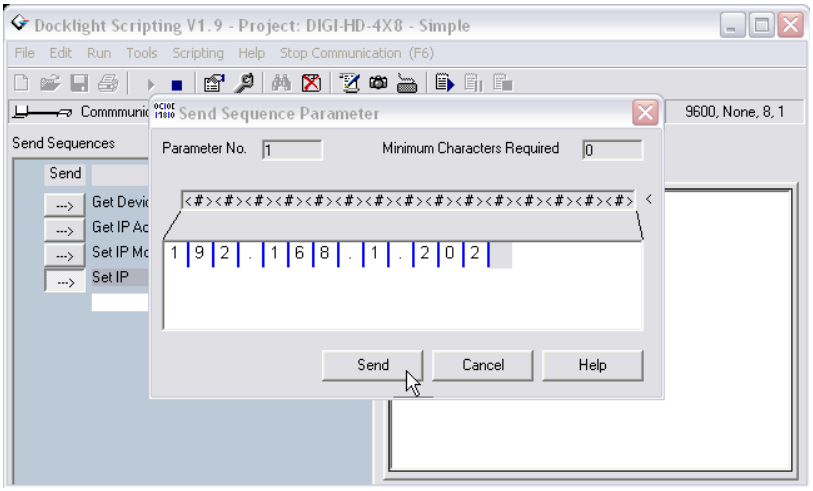


*COM channel setting should match what your PC is using. If you are using a serial port, COM1 is standard. If you are using the included USB to serial adapter, read the installation instructions to determine the used COM port. To change the Docklight communications settings, select Tools→Project Settings→Communication.

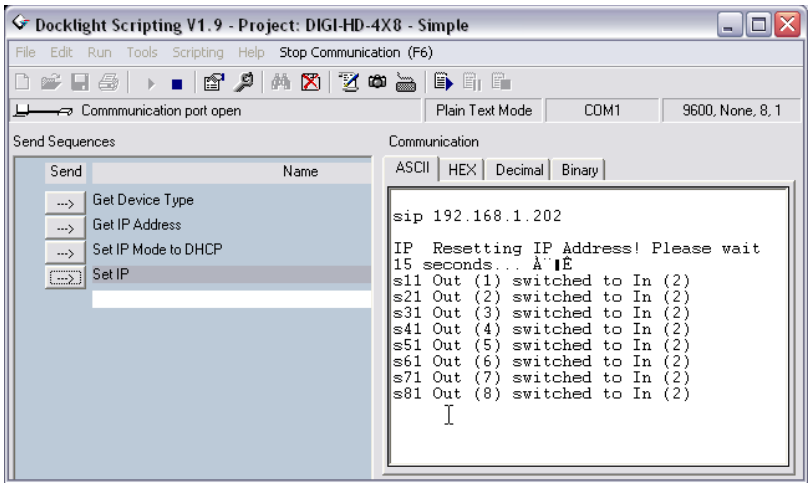
6. Verify you are connected to the matrix by pressing the "Get Device Type" button. If you are properly connected, you will see "DIGI-HD-4X8" appear in the Communication window.



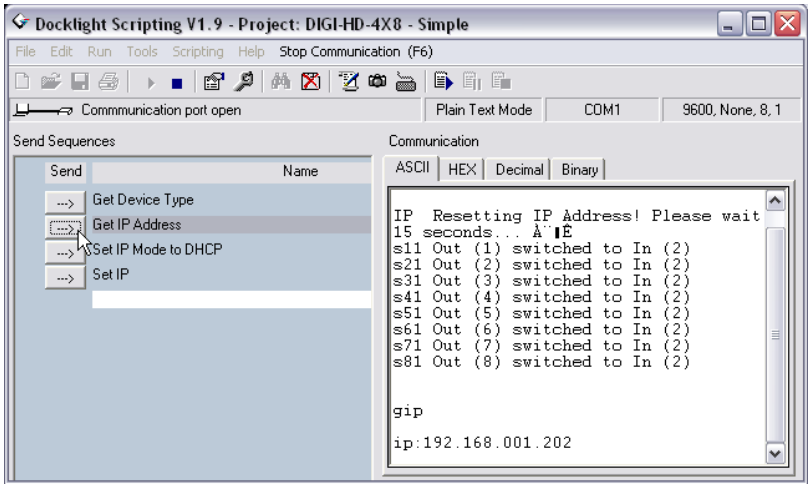
7. Click the Set IP button, a submenu will appear. Type in the desired IP address using periods as seperators. Then click the ”Send” button.



8. Wait about 15 seconds, the matrix will send the crosspoint status to confirm the change.



9. Press the “Get IP address” button to verify the new IP address.



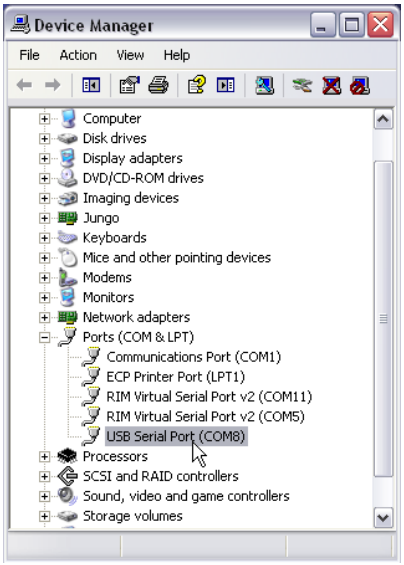
Using the included USB to serial adapter

The DIGI-HD-4x8 comes with an adapter to use if your computer does not have a serial port. This is a useful for setup and diagnostic functions.
To Install:

1. Connect the USB connector to an unused port on your computer.
2. Allow hardware wizard to install.
3. Connect the serial connector to the DIGI-HD-4x8.

To determine the COM port this device is using:

1. (Windows) Click on the START menu→Right-click "My Computer"→Select "Properties"
2. Select the "Hardware" tab and click on the "Device Manager" button.
3. Expand the "Ports (COM&LPT) section. The COM port number will be listed next to the device labeled " USB Serial Port"



Using 3rd-Party Software To Control the Matrix over a LAN

In addition to your web browser, you can also control the matrix using 3rd-party software from companies such as Control4, Lutron, Savant, AMX, Crestron Electronics, etc.

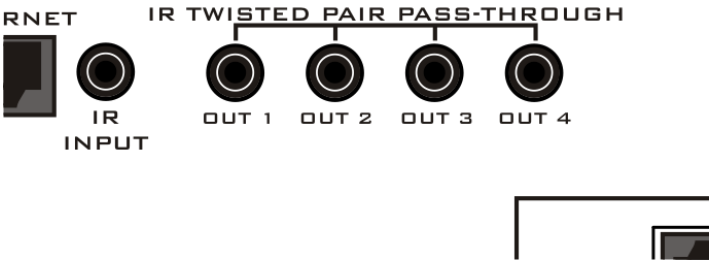
1. Follow the steps defined in the *Static IP* section above to assign a fixed IP address to your unit.
2. Verify that you are able to control your unit using your web brower as described above.
3. The IP commands are the same as the RS232 commands (page 13). All commands will work except for:
    - Set IP address

- Set IP mode to DHCP

4. Communication settings:
    - The host address for Ethernet commands is the unit's fixed IP address
    - The port number is port 23.

IR Twisted Pair Pass-Through

When used with compatible Intelix receivers (DIGI-HD-IR2-R), the DIGI-HD-4X8 supports four pass-through IR channels which distribute remote IR commands from in-room controllers, up to 300 feet over twisted pair cable, and out of the matrix.

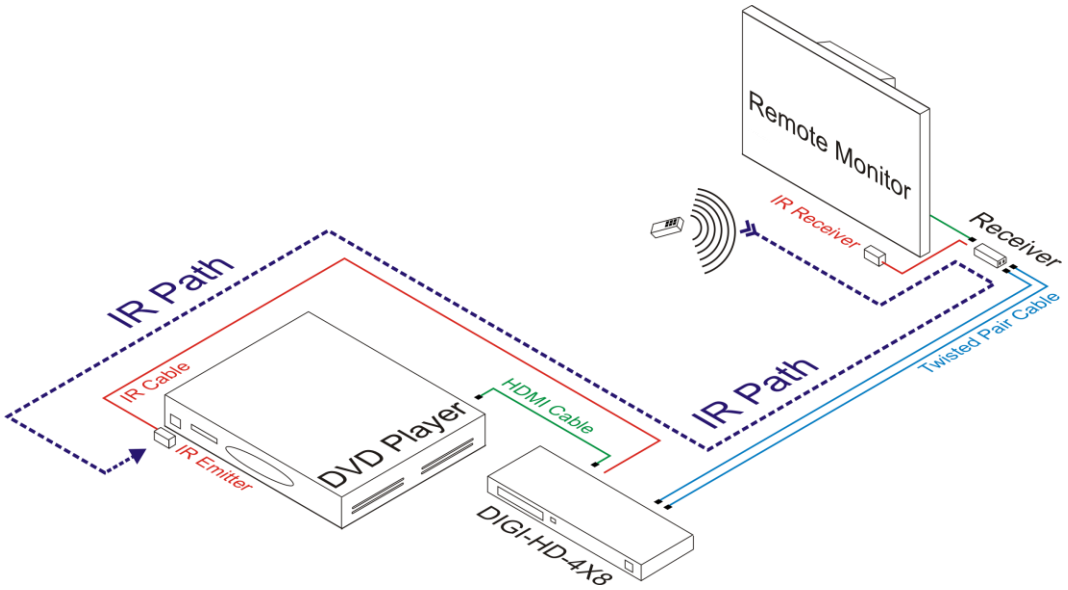


1. Determine which devices you wish to control via the IR pass-through outputs.

> **Note:** By default, IR transmit output one corresponds to HDMI input one, IR transmit output two corresponds to HDMI input two, IR transmit output three corresponds to HDMI input three, and IR transmit output four corresponds to HDMI input four. Therefore, the IR output port will control the source connected to the HDMI input.

2. Connect an IR cable to the desired IR transmit output port.

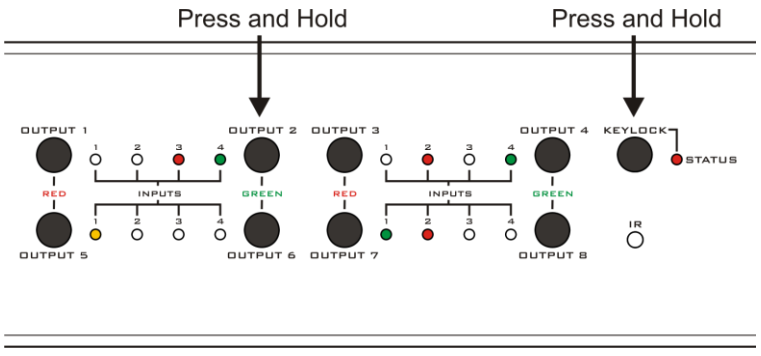
3. Repeat for up to four devices.



4. All of the remote receive baluns transmit IR commands from the included remote control, thereby allowing remote control of the matrix itself.

Note: If the IR codes for a pass-through signal conflict with the internal IR codes of the matrix, the processing of remote matrix IR commands may be disabled.

Simultaneously press and hold the *Output 2 Source Select* and *Keylock* buttons for three seconds. A single flash of the front panel source select LEDs indicates the remote IR commands are enabled. A double flash of the front panel source select LEDs indicates the remote IR commands are disabled.



Troubleshooting & Frequently Asked Questions

My destination is capable of Dolby Digital® and DTS® but it's not receiving a Multi-channel signal from the Blu-ray® player.
The DIGI-HD-4X8 may not be set in multichannel mode. Switch the matrix to 1080p, 5.1 Audio mode by following the steps on page 8.

> **Note:** Not all Blu-ray® discs are mastered with Dolby Digital® or DTS® audio. Please verify your movie is encoded with this format.

My destination supports a resolution other than 1080p, but it's receiving a 1080p signal.
The DIGI-HD-4X8 supports device learning; i.e., the matrix can query connected sources and destinations and learn and store their individual resolutions.

1. Verify the desired destination is connected to the DIGI-HD-4X8 matrix via an HDMI cable. Verify the signal DIP switches are configured for EDID copy mode (see *Installation* section starting on page 5).

2. Route the signal from the desired source to the desired destination using the front panel controls.

3. Disconnect all other sources.

4. Press and hold the *Output Source Select* button of the desired channel for five seconds. The input 1 source select LEDs will illuminate and flash during copy function.

5. After the LEDs cease flashing, release the *Output Source Select* button. The DIGI-HD-4X8 has now learned and stored your devices' settings.

> **Note:** The DIGI-HD-4X8 features on-board memory. Settings are stored during power off and restored during power on.

How can I tell if my matrix is connected to the network?
The matrix is controllable via IP; however, the unit must be properly connected to the network.

- If you see a solid amber LED with a blinking green LED, the unit is correctly connected to the network.

- If you see a blinking amber LED and no green LED, the unit is not communicating with the network.

My Ethernet port is not physically connecting to the network.
There are several external reasons why the matrix might not be connecting to the network.

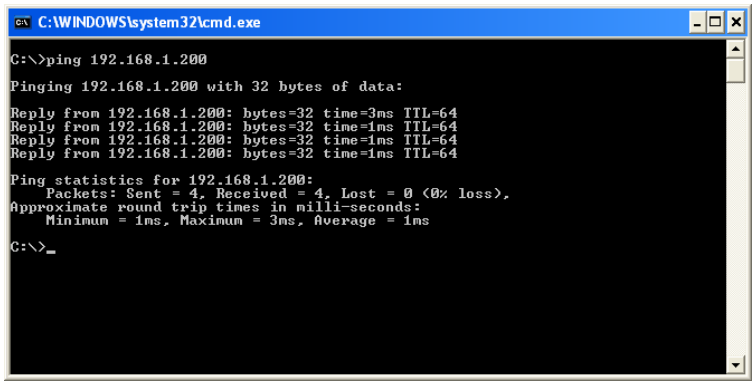
1. Try a different Ethernet cable to verify the cable is operational.

2. Try connecting a computer to the network port to verify the port is active/operational.

What is the IP address of my matrix?

Run the *NetFinder* software from the Intelix website. Once connected, press the "Search" button, and the IP address of your unit will be displayed in the title bar of the application.

Note: The Ping utility on a PC will verify that your matrix is accessible on the network.



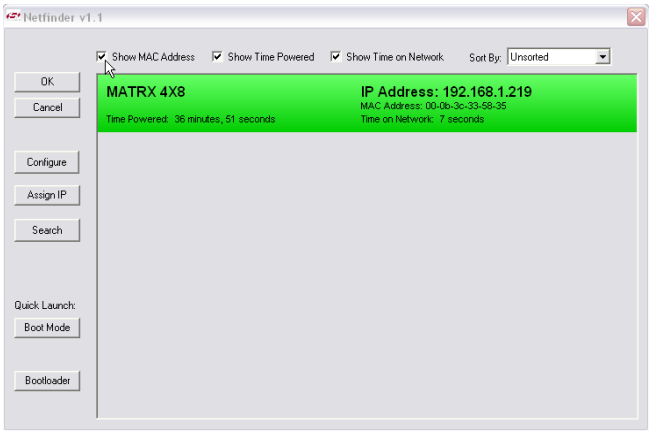
How do I assign a static IP address to my matrix?

As a DHCP enabled device, the DIGI-HD-4X8 will automatically receive an IP address. However, control systems typically require devices to have a fixed IP address. Setting a Static IP address must be accomplished though the matrix's serial port. See page 18 "Static IP" section for information on how to assign a Static IP.

What is the MAC address of my matrix?

1. Run the *NetFinder* software from the Intelix website.
2. Press "Search" button.
3. Select "Show MAC Address"

The MAC Address will be displayed below the IP Address



Technical Specifications

Vertical Frequency Range	24 - 60 Hz
Output Video	HDMI 1.3
Signaling Rate	2.25 gigabits per second
Input DDC Signal	5.0 volts p-p (TTL)
Input Video Signal	0.5 – 1.0 volts p-p
Video Amplifier Bandwidth	255 MHz
Input Connectors	Four (4) HDMI type A connectors
Output Connectors	Eight (8) HDMI type A connectors with locking screws Eight (8) dual twisted pair connectors
Supported Video Resolutions	480i, 480p, 576i, 576p, 720p, 1080i, 1080p 8 bits per channel
Supported Audio	Dolby TrueHD 7.1, Dolby TrueHD 5.1, Dolby Digital 5.1 DTS-HD Master Audio 7.1, DTS-HD Master Audio 5.1, DTS 5.1, PCM 2.0, PCM 5.1
Status Indicators	Front panel input to output LEDs Front panel keylock LED
Operating Temperature Range	-41 to 95 degrees F -5 to 35 degrees C
Operating Humidity Range	5 to 90% non-condensing
Included Accessories	One (1) 12 VDC power supply Two (2) 19” rack mounting ears One (1) remote control Four (4) shelf mount feet (1) IR receiver (4) IR emitters
Control	Front panel channel, RS232, IR and Ethernet
Dimensions	17.25” x 8.375” x 3.5” 2 RU
Enclosure	Black metal
Max Power Consumption	22 watts
Power	12 VDC
Regulatory	CE, RoHS
Compatible Intelix Twisted Pair Receivers	DIGI-HD-UHR2-R DIGI-HD-UHR2-WP-R, DIGI-HD-IR2-R, DIGI-HD-IR2-WP-R, DIGI-HD-IR3-R, DIGI-HD-IR3-WP-R (*3series receivers will only support one-way IR – Sink to destination)
Shipping Weight	7.1 lbs
Intelix Part Number	DIGI-HD-4X8
Warranty	2 years

Warranty

Intelix warrants to the original purchaser of new and B-stock products that the product will be free from defects in material and workmanship for a period of 2 years from the date of purchase from an authorized Intelix reseller, subject to the terms and conditions set forth below.

All Intelix products are guaranteed against malfunction due to defects in materials or workmanship for two years after date of purchase. If a malfunction does occur during the specified period, the defective product will be repaired or replaced at Intelix's option without charge. As a condition to receiving the benefits of this warranty, you must provide Intelix with documentation that establishes you were the original purchaser of the Intelix products. If you are not the original purchaser, the Intelix equipment must be returned to the original purchaser or another authorized Intelix reseller accompanied by dated documentation of proof of purchase. Please contact Intelix for a list of authorized resellers.

This warranty does not cover: 1) Malfunction resulting from use of the product other than as specified in the user manual; 2) Installation specific wiring; 3) Malfunction resulting from abuse or misuse of the product; 4) Exterior chassis appearance; 5) Malfunction occurring after repairs have been made by anyone other than Intelix or any of its authorized service representatives; 6) Acts of nature; 7) Optional software upgrades or updates.

This warranty will be void if the product's serial number or quality control sticker has been removed or defaced, or if the product has been altered, subjected to damage or abuse, repaired by any person not authorized by Intelix to make repairs, or installed in any manner that does not comply with Intelix's recommendations.

This warranty is in lieu of all other warranties, express or implied. Intelix disclaims all other warranties, express or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose.

No agent or reseller of Intelix is authorized to modify this warranty or to make additional warranties on behalf of Intelix. Statements, representations or warranties made by any party other than Intelix does not constitute warranties by Intelix. Intelix shall not be responsible or liable for any statement, representation or warranty made by any other person or party.

Warranty service is only offered after a return authorization (RA) number has been generated by an authorized Intelix factory representative. If you purchased the Intelix goods directly from Intelix, please contact Intelix Applications for an RA number. If you purchased the Intelix good from an authorized Intelix reseller, please contact your authorized reseller for an RA number. This RA number must be clearly referenced on the outside of all packages shipped to Intelix. Intelix Applications must be contacted prior to any return of goods; all return shipments received by Intelix without an RA number will be refused. All shipments must be received within 30 days from the RA number issue date.

At Intelix's option, Intelix will advance replace failing Intelix goods on approved accounts within 90 days of shipment from Intelix. The advanced replaced goods will be invoiced and payment will be due under standard terms if

the failing goods are not received within 14 days of the advanced replacement shipment.

Intelix will match shipping method for units still under warranty. If a unit which is out of warranty needs repair, the dealer must pay for shipping, replacement parts, and a fixed $100/hr* labor fee. Normal Intelix credit terms apply to billable repairs. If a unit is returned and found to work according to factory specifications, a $100 service fee* is billed regardless of warranty status. All repairs are made in a reasonably quoted amount of time; a rush shipment fee of $50* may apply to repairs needing a quicker than usual turn-around time.

All goods outside of the standard warranty period which are repaired by Intelix are covered by an additional 90 day warranty. This 90 day warranty only covers the specific repaired components. All other standard warranty limitations apply.

**Or current applicable rate/fee.*
Warranty terms and conditions subject to change and do not apply outside of United States and Canada.
Intelix Warranty is subject to change. Please contact the factory for the most up-to-date information.

Thank you for your purchase.

We appreciate your business. Please contact us with your questions and comments.

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