



DIGI-HD-4X4 4 INPUT BY 4 OUTPUT MATRIX SWITCHER

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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.
 - constitute a
 - 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-4X4 combines a professional-grade HDMI matrix with Intelix's industry-leading extenders. A true matrix switcher, the DIGI-HD-4X4 features four HDMI inputs, four HDMI outputs *and* four 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-4X4 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-4X4 Package Contents

- ➢ DIGI-HD-4X4 matrix switcher
- > 12 VDC power supply
- \succ (2) 19" rack-mounting ears
- \succ (4) Shelf feet
- Wireless remote control
- Manual
- ▶ (4) IR emitters
- ▶ (1) IR receiver



Installation

To install the Intelix DIGI-HD-4X4 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-4X4. The DIGI-HD-4X4 requires 1 rack unit of spacing. If placing on a shelf, attach the shelf feet to the DIGI-HD-4X4.

Ventilation when Rack Mounting

- At least 2 inches of free air space is required on both sides of the DIGI-HD-4X4 for proper side ventilation.
- Ensure there are no closeable doors on the rack that might seal the DIGI-HD-4X4 from a steady supply of cool air.
- Avoid mounting the DIGI-HD-4X4 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-4X4 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-4X4 using high-quality HDMI cables.
- 4. Connect the output destinations to the DIGI-HD-4X4 using high-quality HDMI cables.

5. For long distance destinations, connect one or two twisted pair cables per run to the DIGI-HD-4X4 (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 6 (low-skew)	150'	300'	300'	350'
Cat 6	110'	220'	220'	220'
Cat 5e	100'	200'	200'	200'

- 6. Connect the included 12 VDC power supply to the DIGI-HD-4X4.
- 7. If controlling remotely, connect RS232, Ethernet, or IR control cables.
- 8. Power-on the DIGI-HD-4X4.
- 9. Power-on the source and destination audio and video devices.

Twisted Pair Settings

The DIGI-HD-4X4 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 toggled through front panel key strokes.

- 1. The default setting of the DIGI-HD-4X4 is double twisted pair mode.
- 2. To switch the matrix into to single twisted pair mode, simultaneously press and hold the *Output 3* button and *Keylock* button for 3 seconds. The front panel LEDs will flash when the mode is engaged.
- 3. To switch the matrix back into to double twisted pair mode, simultaneously press and hold the *Output 3* button and *Keylock* button for 3 seconds. The front panel LEDs will flash when the mode is engaged.

			press and hold
DIGI-HD-4X4 HDMI Matrix Distribution System		DUTPUT 2 50URCE SELECT-	
Həmi	DUTPUT 3 SOURCE SELECT-	UNPUT 1 20 30 40 DUTPUT 4 SOURCE SELECT	
pres	s and hold		

Alternatively, the different modes of operation are toggled through Intelix *NetCtl* software. 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 NetCtl on your computer.
- 2. Launch the utility and verify you are connected to the matrix.
- 3. Select the *UTP Set* button.
- 4. Select which outputs you wish to toggle.
- 5. Select OK to enable the changes.
- 6. Select *Quit* to exit the window.

UTP Output Set	
Output 1	Output 2
C 1 wire 💿 2 wires	C 1 wire 💿 2 wires
Output 3	Output 4
C 1 wire C 2 wires	C 1 wire C 2 wires
	OK Quit

Signal Mode Settings: HDshāk Inside

The DIGI-HD-4X4 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-4X4.
- 2. Set the DIP switches to the desired setting.
- 3. Power on the DIGI-HD-4X4.

DIP 1	DIP 2	DIP 3	EDID Function
off	off	off	Dual Twisted Pair Mix Mode
			The matrix mixes the EDID data of all destinations
			which choosing the same source. This data is then
			transmitted by the matrix to the source device. To
			copy and sync the EDID data, simultaneously press
			and hold the Output 1 button and Keylock button
			for 3 seconds.
off	off	on	EDID Copy Mode
			EDID data is copied from the selected output and
			transmitted to the desired input. To copy and sync
			the EDID data, press and hold the output button of
			the selected output for 3 seconds.
off	on	off	Factory Default: 1080p with stereo audio
			The matrix is preset with EDID data for 1080p
			video and stereo audio.
off	on	on	Factory Default: 1080i with stereo audio
			The matrix is preset with EDID data for 1080i video
			and stereo audio.
on	off	off	Factory Default: 1080p with 5.1 audio
			The matrix is preset with EDID data for 1080p
			video and 5.1 audio.
on	off	on	Factory Default: 1080p with 7.1 audio
			The matrix is preset with EDID data for 1080p
			video and 7.1 audio.

Operation

To operate the Intelix DIGI-HD-4X4 matrix switcher, please perform the following steps.

Note: The DIGI-HD-4X4 features on-board memory. Settings are stored during power off and restored during power on.

Front Panel Control

The DIGI-HD-4X4 features front panel control for switching inputs to the various outputs. Each output is represented by a push toggle button. Selecting the button toggles what input is being routed to the output.



- 1. Determine if the DIGI-HD-4X4 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, select the push toggle button. The input indicator will cycle through the inputs.
- 4. **Optional:** Once the desired input is selected, lock the front panel by selecting the keylock selector button.

Note: The DIGI-HD-4X4 front panel will automatically lock after one minute of inactivity.

Included Remote Control

The DIGI-HD-4X4 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.
- 3. On the determined output, toggle through the inputs by selecting the *toggle input backward* or *toggle input forward* button.



IR Remote Control

The DIGI-HD-4X4 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-4X4 through the 1/8" (3.5 mm) input jack on the rear panel, connect the IR cable directly to the matrix.

Note: Operation of the rear panel IR input will disable the front panel IR sensor.

2. If controlling the DIGI-HD-4X4 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-4X4 IR sensor window with an alcoholbased cleaner before applying the emitter to guarantee adhesion.
- Should the emitter not adhere to the DIGI-HD-4X4 sensor window, apply a small drop of glue to the adhesion pad on the emitter and re-apply.

Misc. Commands	
Function	Code
Output 1 Next	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
1	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f
	0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 001
	0015 003f 0015 0015 0015 003f 0016 05d5
Output 1 Previous	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 0015 0015 003f 0016 05d5
Input 1 to Output 1	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 0015
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Input 2 to Output 1	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Input 3 to Output 1	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 0031 0015 0031 0015 0031 0015 0031 0015 0031 0015 0031 0015 0031 0015 0035
Input 4 to Output 1	0000 0061 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 0051 0015 0051 0015 0051 0015 0051 0015 0015 0015 0015 0015 0051 0015 0051 0015 0015
	0015 0015 0015 0015 0015 0015 0015 0015
Output 2 Novt	0015 0051 0015 0051 0015 0051 0016 0545
Output 2 Next	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Output 2 Previous	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Input 1 to Output 2	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
input i to output 2	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Input 2 to Output 2	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
1 1	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Input 3 to Output 2	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 003f 0015 003f
	0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015
	0015 003f 0015 0015 0015 003f 0016 05d5

DIGI-HD-4X4 IR Codes

Input 4 to Output 2	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015
	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f
	0015 003f 0015 003f 0015 003f 0016 05d5
Output 3 Next	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
1	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 0015 0015 003f
	0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 0015 0015 003f 0015 0015
	0015 003f 0015 0015 0015 003f 0016 05d5
Output 3 Previous	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
1	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f 0015 0015
	0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015 0015 003f
	0015 003f 0015 0015 0015 003f 0016 05d5
Input 1 to Output 3	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
1 1	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f
	0015 0015 0015 003f 0015 0015 0015 003f 0015 0015 0015 0015 0015 0015 0015 001
	0015 003f 0015 0015 0015 003f 0016 05d5
Input 2 to Output 3	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
1 1	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 0015 0015 003f 0015 003f 0015 0015 0015 0015
	0015 0015 0015 0015 0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0016 05d5
Input 3 to Output 3	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
1 1	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 003f 0015 0015 0015 0015
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Input 4 to Output 3	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Output 4 Next	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Output 4 Previous	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 003f 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 0015 0015 003f 0016 05d5
Input 1 to Output 4	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 0031 0015 0031 0015 0035 0015 0015
	0015 0015 0015 0015 0015 0015 0015 0015
Input 2 to Output 4	0000 0061 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 0031 0015 0015 0015 0031 0016 05d5

Input 3 to Output 4	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
1 1	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 0015
	0015 0015 0015 0015 0015 0015 0015 0015
	0015 003f 0015 003f 0015 003f 0016 05d5
Input 4 to Output 4	0000 006f 0000 0022 0151 00a7 0015 0015 0015 0015 0015 0015 0015 001
	0015 0015 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 003f 0015 003f
	0015 003f 0015 003f 0015 003f 0015 003f 0015 0015 0015 0015 0015 0015 0015 003f
	0015 0015 0015 003f 0015 0015 0015 0015 0015 003f 0015 003f 0015 003f 0015 0015
	0015 003f 0015 0015 0015 003f 0016 05d5

RS232 Remote Control

The DIGI-HD-4X4 supports remote control through a rear panel RS232 control port.



1. If controlling the DIGI-HD-4X4 through the RS232 control port on the rear panel, connect a straight-through serial cable directly to the matrix.

DIGI-HD-4X4 RS232 Settings

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

DIGI-HD-4X4 RS232 Codes

Misc. Commands		
Function	Code	Return String
Get Device Type	br <space></space>	ASCII string containing the
	_	letter "a" followed by the
		name of the device
Get Device Status	bc <space></space>	ASCII string in the format of:
		"\r\n" + "s1Ys2Ys3Ys4Y" +
		"\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
Output 1 Commands		
Function	Code	Return
Toggle Input 1	cir 09\r	The updated status for output

Toggla Input 2	oir 1D\r	1 Depresented as an ASCII
Toggle Input 2		atring in the format of "aVV"
Toggle Input 3		string in the format of SAT
Toggle Input 4		where.
Toggle Input Forward	cir 41 r	• A is a one based output
loggle Input Backward	cir 5/r	
		• The value of Y maps as
		follows:
		0 = input 1
		1 = input 2
		2 = input 3
		3 = input 4
Output 2 Commands		_
Function	Code	Return
Toggle Input 1	cir 17\r	The updated status for output
Toggle Input 2	cir 12\r	2. Represented as an ASCII
Toggle Input 3	cir 59\r	string in the format of "sXY"
Toggle Input 4	cir 08\r	where:
Toggle Input Forward	cir 11\r	• X is a one based output
Toggle Input Backward	cir 1B\r	channel
		• The value of Y maps as
		follows:
		0 = input 1
		1 = input 2
		2 = input 3
		3 = input 4
Output 3 Commands		
Function	Code	Return
Function Toggle Input 1	Code cir 5E\r	Return The updated status for output
Function Toggle Input 1 Toggle Input 2	Code cir 5E\r cir 06\r	Return The updated status for output 3. Represented as an ASCII
Function Toggle Input 1 Toggle Input 2 Toggle Input 3	Code cir 5E\r cir 06\r cir 05\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY"
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4	Codecir 5E\rcir 06\rcir 05\rcir 03\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where:
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel
FunctionToggle Input 1Toggle Input 2Toggle Input 3Toggle Input 4Toggle Input ForwardToggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as
FunctionToggle Input 1Toggle Input 2Toggle Input 3Toggle Input 4Toggle Input ForwardToggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows:
FunctionToggle Input 1Toggle Input 2Toggle Input 3Toggle Input 4Toggle Input ForwardToggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows:0 = input 1
FunctionToggle Input 1Toggle Input 2Toggle Input 3Toggle Input 4Toggle Input ForwardToggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows:0 = input 11 = input 22 = input 3
FunctionToggle Input 1Toggle Input 2Toggle Input 3Toggle Input 4Toggle Input ForwardToggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows:0 = input 11 = input 22 = input 33 = input 4
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows:0 = input 11 = input 22 = input 33 = input 4
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4 Return The updated status for output 4. Represented as an ASCII string in the format of "sXY" where:
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4 Return The updated status for output 4. Represented as an ASCII string in the format of "sXY" where: • X is a one based output
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input 4	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4 Return The updated status for output 4. Represented as an ASCII string in the format of "sXY" where: • X is a one based output
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input 3 Toggle Input Forward Toggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 35\r cir 55\r Code cir 18\r cir 0F\r cir 51\r cir 40\r cir 07\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4 Return The updated status for output 4. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input 3 Toggle Input Forward Toggle Input Backward	Code cir 5E\r cir 06\r cir 05\r cir 03\r cir 48\r cir 55\r Code cir 18\r cir 0F\r cir 51\r cir 40\r cir 07\r	Return The updated status for output 3. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as follows: 0 = input 1 1 = input 2 2 = input 3 3 = input 4 Return The updated status for output 4. Represented as an ASCII string in the format of "sXY" where: • X is a one based output channel • The value of Y maps as
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input 3 Toggle Input Forward Toggle Input Backward	Code cir 5E\r cir 06\r cir 03\r cir 35\r cir 55\r Code cir 18\r cir 44\r cir 0F\r cir 51\r cir 40\r cir 07\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows: $0 = input 1$ $1 = input 2$ $2 = input 3$ $3 = input 4$ ReturnThe updated status for output4. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows: $0 = input 1$
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input 3 Toggle Input Forward Toggle Input Forward Toggle Input Backward	Code cir 5E\r cir 06\r cir 03\r cir 48\r cir 55\r Code cir 18\r cir 44\r cir 0F\r cir 51\r cir 40\r cir 07\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows: $0 = input 1$ $1 = input 2$ $2 = input 3$ $3 = input 4$ ReturnThe updated status for output4. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows: $0 = input 1$ $1 = input 2$
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input 3 Toggle Input Forward Toggle Input Forward Toggle Input Backward	Code cir 5E\r cir 06\r cir 03\r cir 3\r cir 55\r Code cir 18\r cir 44\r cir 0F\r cir 51\r cir 40\r cir 07\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows: $0 = input 1$ $1 = input 2$ $2 = input 3$ $3 = input 4$ ReturnThe updated status for output4. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows: $0 = input 1$ $1 = input 2$
Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input Forward Toggle Input Backward Output 4 Commands Function Toggle Input 1 Toggle Input 2 Toggle Input 3 Toggle Input 4 Toggle Input 5 Toggle Input 7 Toggle Input 7 Toggle Input 7 Toggle Input 8 Toggle Input 9 To	Code cir 5E\r cir 06\r cir 03\r cir 3\r cir 55\r Code cir 18\r cir 44\r cir 51\r cir 40\r cir 07\r	ReturnThe updated status for output3. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows: $0 = input 1$ $1 = input 2$ $2 = input 3$ $3 = input 4$ ReturnThe updated status for output4. Represented as an ASCIIstring in the format of "sXY"where:• X is a one based outputchannel• The value of Y maps asfollows: $0 = input 1$ $1 = input 2$ $2 = input 3$

*Note: the space between "cir" and the code is required.

Ethernet Remote Control

The DIGI-HD-4X4 supports remote control through a rear panel Ethernet control port. The matrix accepts control messages when integrated to a local area network (LAN).



1. If controlling the DIGI-HD-4X4 through the Ethernet control port on the rear panel, connect an Ethernet cable directly to the matrix.

Note: The DIGI-HD-4X4 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-4X4 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.
- The LAN port on the DIGI-HD-4X4 requires the use of an Ethernet crossover cable if the hub or switch that you are connecting to does not support *Automatic MDI/MDI-X*.
- 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

INETCTL

Search Read Device

192.168.1.181

Controlling the Matrix over a LAN

Intelix provides a diagnostic software utility, *NetCtl*, to determine the IP address of the DIGI-HD-4X4. 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 NetCtl on your computer.
- 2. Launch the utility. Two buttons appear.

- 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-4X4 is ten zeros (000000000).
- 8. A welcome screen will launch, followed by the Intelix *Web Control Application*.

Login	
Password:	-
Login	

Port Selected Output1=2	Output1	1	2	3	4
Output2=3 Output3=2	Output2	1	2	3	4
Output4=3	Output3	1	2	3	4
Refresh	Output4	1	2	3	4

Static IP

As a DHCP enabled device, the DIGI-HD-4X4 will automatically receive an IP address. However, control systems require that devices have a *fixed* IP address on the network. Using the COMCTL utility, you can assign a static IP address to the DIGI-HD-4X4.

- 1. Open the COMCTL software and verify you are connected to the matrix by pressing the *Status* button.
- 2. Press the *Set IP* button.
- Define your IP address and press OK. After 10 to 15 seconds, your IP address will be set.

HDMI Out1 -> HDMI In 2 HDMI Out2 -> HDMI In 3 HDMI Out2 -> HDMI In 3 HDMI Out3 -> HDMI In 2 HDMI Out4 -> HDMI In 3	
3	
Set IP UTP Set Status Clear	

- 4. Delete the old NETCTL.exe file in the folder with the NETCTL application.
- Open the NETCTL software to verify your IP address.

🖬 Form2		
C Automatically	obtain ip address ing ip address	
IP address:	192 . 168 . 1	. 210
	OK	Cancel

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. See DIGI-HD-4X4 Ethernet Codes below for the commands
- 4. Communication settings:
 - The host address for Ethernet commands is the unit's fixed IP address
 - The port number is port 23

Misc. Commands		
Function	Code	Return String
Get Device Type	Br	ASCII string containing the
		letter "a" followed by the
		device type
Get Device Status	Bc	ASCII string in the format of
		"\r\n" + "s1Ys2Ys3Ys4Y" +
		"\r\n" where Y is the input
		source being routed to each
		output. The value of Y maps as
		follows:
		0 = input 4
		1 = input 3
		2 = input 2
		3 = input 1
		The outputs channels man as
		follows:
		s1 = output 1
		$s_2 = output 2$
		$s_2 = output 2$ $s_3 = output 3$
		s4 = output 4
Output 1 Commands		Si ouputi
Function	Code	Return
Toggle Input 1	a09	The updated status for output 1
Toggle Input 2	a1D	Represented as an ASCII string
Toggle Input 3	alE	in the format of "sXY" where:
Toggle Input 4	20D	• X is a one based output
Toggle Input Forward	a0D	channel
Toggle Input Polward	a41	• The value of V mans as
Toggie input Backward	a <i>3</i> 7	• The value of T maps as
		0 = input 4
		0 = input 4 1 = input 3
		1 - input $32 - $ input 2
		2 = input 2
Output 2 Commands		$3 - \operatorname{Input} 1$
Function	Code	Peturn
Toggle Input 1	217	The undeted status for output 1
Toggle Input 2	a17	Penresented as an ASCII string
Toggle Input 2	a12 a50	in the format of "sVV" where:
Toggle Input 3	a39	• Via a one based output
Toggle Input 4	a08	• A is a one based output
Toggle Input Forward	all	The value of V mana as
Toggle Input Backward	alB	• The value of Y maps as
		follows:
		0 = input 4
		1 = input 3
		2 = input 2
		3 = input 1
Output 3 Commands	Cel	Determ
Function	Code	Keturn
Toggle Input I	ase	The updated status for output 1.
1 oggle Input 2	a06	Represented as an ASCII string
	o =	

DIGI-HD-4X4 Ethernet Codes

Toggle Input 4	a03	• X is a one based output
Toggle Input Forward	a48	channel
Toggle Input Backward	a55	• The value of Y maps as
		follows:
		0 = input 4
		1 = input 3
		2 = input 2
		3 = input 1
Output 4 Commands		
Function	Code	Return
Toggle Input 1	a18	The updated status for output 1.
Toggle Input 2	a44	Represented as an ASCII string
Toggle Input 3	a0F	in the format of "sXY" where:
Toggle Input 4	a51	• X is a one based output
Toggle Input Forward	a40	channel
Toggle Input Backward	a07	• The value of Y maps as
		follows:
		0 = input 4
		1 = input 3
		2 = input 2

IR Twisted Pair Pass-Through

When used with compatible Intelix receivers (DIGI-HD-IR2-R), the DIGI-HD-4X4 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.

Note: Optionally, IR commands for the matrix may be transmitted from a remote receive balun. For successful operation, the output of the IR transmit output port must be routed to the 1/8" (3.5 mm) IR rear panel connector or the front panel IR sensor.



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

What is the factory default HDMI mode for this device?

As shipped from the factory, this device is configured to output HDMI 1.2 signals at 1080p to all outputs.

When to I need to change the factory default HDMI mode?

If you have both an HDMI 1.3 compatible source (Blu-ray® player, Sony Playstation 3®, etc.) as well as an HDMI 1.3 television capable of Deep Color support, you will need to change the HDMI mode of the device to support the newer HDMI 1.3 feature.

How do I switch the device to HDMI 1.3 mode?

To switch the matrix to HDMI 1.3 mode, please perform the following steps:

- 1. Power on the DIGI-HD-4X4 matrix.
- 2. Disconnect the input sources from the DIGI-HDMI-4X4.
- 3. Connect the output destinations to the DIGI-HD-4X4 using high-quality HDMI cables. Disconnect any twisted pair extenders.

Note: In order to switch to HDMI 1.3 mode, destinations must be connected to the matrix with HDMI cables. The matrix will not toggle HDMI 1.3 mode when twisted pair extenders are connected.



- 4. Simultaneously press and hold the *Output 1 Source Select* and *Keylock* buttons for five seconds. The front panel source select LEDs will illuminate and flash during mode transition.
- 5. After the LEDs cease flashing, release the *Output 1 Source Select* and *Keylock* buttons. The DIGI-HD-4X4 is now in HDMI 1.3 mode.

Note: The DIGI-HD-4X4 features on-board memory. Settings are stored during power off and restored during power on.

How do I switch the device to HDMI 1.2 (factory default) mode? To switch the matrix to HDMI 1.2 (factory default) mode, please perform the following steps:

- 1. Power on the DIGI-HD-4X4 matrix.
- 2. Disconnect the input sources from the DIGI-HD-4X4.
- 3. Disconnect the output destinations to the DIGI-HD-4X4. Disconnect any twisted pair extenders.

press	s and hold		press and hold	power switch
DIGI-HD-4X4 HOMI Matrix Distribution System		DUTPUT 2 DURCE SELECT		
наші	UTPUT 3 SOURCE SELECT-	DUTPUT 4 SOURCE SELECT		

- 4. Simultaneously press and hold the *Output 1 Source Select* and *Keylock* buttons for five seconds. The front panel source select LEDs will illuminate and flash during mode transition.
- 5. After the LEDs cease flashing, release the *Output 1 Source Select* and *Keylock* buttons. The DIGI-HD-4X4 is now in HDMI 1.2 (factory default) mode.

Note: The DIGI-HD-4X4 features on-board memory. Settings are stored during power off and restored during power on.

Does the matrix support both HDMI 1.2 and HDMI 1.3 mode simultaneously?

The DIGI-HD-4X4 does not support HDMI 1.2 and HDMI 1.3 mode simultaneously. The matrix must be toggled for one or the other.

My destination is capable of Dolby TrueHD® but it's not receiving an HD signal from the Blu-ray® player.

The DIGI-HD-4X4 may not be set in HDMI 1.3 (Dolby TrueHD®) compatible mode. Switch the matrix to HDMI 1.3 mode by following the steps on page 11.

Note: Not all Blu-ray[®] discs are mastered with Dolby TrueHD [®] 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-4X4 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-4X4 matrix via an HDMI cable. Verify the signal DIP switches are configured for EDID copy mode (see *Installation* section).
- 2. Route the signal from the desired source to the desired destination.
- 3. Disconnect all other sources and destinations from the matrix.
- 4. Press and hold the *Output Source Select* button of the desired channel for five seconds. The front panel source select LEDs will illuminate and flash during mode transition.
- 5. After the LEDs cease flashing, release the *Output Source Select* button. The DIGI-HD-4X4 has now learned and stored your devices' settings.

Note: The DIGI-HD-4X4 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 *Intelix DIGI-HDMI* software from the *Intelix Installation CD* or from the Intelix website. Once connected, 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?

A permanent IP address can be assigned through the COMCTL software, or by using DHCP reservation rather than a static IP assignment. Before you can reserve an IP address, you need the MAC address of your matrix.

What is the MAC address of my matrix?

address

matrix.

- 1. Run the *Intelix DIGI-HDMI COMCTL* software from the *Intelix Installation CD* or from the Intelix website.
- 2. After successfully connecting to your unit, open the *NetCtl.txt* text file which is located in the same directly as the *DIGI-HDMI* software (*NetCtl.exe*). This file will open with your PC's *Notepad* application (*Notepad.exe*).
- 3. The first 17 characters in the file is the MAC address of your unit; e.g. 00-0B-3C-05-54-8C. Record this MAC address, it will useful when reserving a fixed IP

New Reservation ? × for your Provide information for a reserved client. DIGI-HDMI-4x4 Reservation name: 192.168.1.200 IP address: 00-0B-3C-05-54-8C MAC address: Network controllable HDMI matrix Description: Supported types O Both DHCP only O BOOTP only Add Close

Note: If your system supports a *Name* and *Description* field in the DHCP reservation, Intelix recommends that you fill these fields with a descriptive name that will allow the network administer to easily and quickly identify the unit.

4. After you reserve an IP address for your matrix, you will need to power cycle the unit. This will obtain the new, reserved IP address.

Note: To verify the matrix is using the desired IP address, Intelix recommends Pinging the unit (see above).

Technical Specifications

Vertical Frequency Range	24 - 60 Hz
Output Video	HDMI 1.2/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	IDMI type A connectors
Output Connectors Four (4) HDMI type A connect	tors with locking screws
Four (4) dual	twisted pair connectors
Supported Video Resolutions	76p, 720p, 1080i, 1080p
8	, 10, 12 bits per channel
Supported AudioDolby TrueHD 7.1, Dolby TrueHI	D 5.1, Dolby Digital 5.1
DTS-HD Master Audio 7.1, DTS	S-HD Master Audio 5.1,
DIS	5.1, PCM 2.0, PCM 5.1
Status IndicatorsFront par	iel input to output LEDs
F.	ront panel keylock LED
Operating Temperature Range	41 to 95 degrees F
On anoting Humidity Dan as	-5 to 35 degrees C
Uperating Humidity Range	12 VDC nerven annulu
True (2)	10" rook mounting corre
1w0(2)	19 Tack mounting ears $One(1)$ remote control
а	Sour (A) shelf mount feet
1	(1) IR receiver
	(4) IR emitters
Control Front panel channel	RS232 IR and Ethernet
Dimensions 17	375" x 8 375" x 1 625"
2	1 RU
Enclosure	Black metal
Max Power Consumption	
Power	
Regulatory	CE, RoHS
Compatible Intelix Twisted Pair Receivers	DIGI-HD-UHR2-R
	DIGI-HD-IR2-R
Shipping Weight	7.1 lbs
Intelix Part Number	DIGI-HD-4X4
Warranty	



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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