

8x8 HDMI MATRIX SWITCHER

INSTRUCTION MANUAL





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SAFETY INFORMATION



- 1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
- 2. Follow all instructions printed on unit chassis for proper operation.
- 3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
- 4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
- 5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
- 6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
- 7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
- 8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
- 9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
- 10. Turn power off and disconnect unit from AC current before making connections.
- 11. Never hold a power switch in the "ON" position.
- 12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
- 13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
- 14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
- 15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
- 16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
- 17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
- 18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
- 19. Service Information Equipment should be serviced by qualifier service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment.
 - C. The equipment has been exposed to rain
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance
 - E. The equipment has been dropped, or the enclosure damaged.

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The HD-88G is professional 8x8 matrix routing switch. Supporting (8) HDMI inputs and (8) HDMI outputs and (1) preview output (same as Output #01). The HD-88G is based on the HDMI standard and supports full resolution HDMI Video with embedded EDID. With a signal bandwidth of 340Mhz, there is no signal degradation. High Definition Digital signals can be selected and distributed from any (8) inputs to any (8) outputs in any combination. The Switcher is certified as being fully CEC and HDCP 2.0 compliant, full HD HDMI V1.4a 3D formats, data rates up to 6.75 Gbps. Supports UXGA/WUXGA/DVI 1920x1200 resolution to any HD displays. The switcher is certified as being fully HDMI and HDCP compliant, with RoHS, CE, FCC certification. Supports high resolution HDMI sources routed to HDMI displays, monitors, projector or audio receivers. The EDID management can be selected between (7) different modes. Control is provided via front panel push buttons, IR remote, RS-232 or TCP/IP (not a web-browser). An RS-232/ Ethernet Windows GUI software program is provided for matrix routing control (Windows only).

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- · Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- · Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

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PACKAGE CONTENTS & FEATURES

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- · Main switch console unit
- RS-232 V2.0 Protocol Instructions
- Ethernet V2.0 Protocol Instructions
- Master wireless IR Remote Control (SW-HD88)
- 19 inch Ear mount bracket (Part # 1U-440L)
- SB-100 IR Extender distance ~984 ft (300M) Receiver set
- SB-100C IR Extender distance 6ft(2M) Receiver Cable
- · CD Contents : Windows GUI, ISP V1.0 Windows driver
- RS-232 Cable 6 ft (2M)
- ISO Screws
- Operating Instructions

Worldwide Universal Power Supply: DC12V, 5A, Input: (100~240 VAC, AC 50/60Hz.)



FEATURES

- · 8x HDMI digital source devices matrix switched to 8x HDMI devices
- · HDMI digital video w/embedded audio, DVI format and CEC/HDCP 2.0 compliant
- (7) function key control and worldwide (7) EDID modes for HDTV resolutions
- · Link speeds of up to 6.75 Gbps (link clock rate of 340Mb Hz), Supports HDMI 1.4a 3D formats
- Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV resolutions 480i/480p, 576i/576p, 720p, 1080i & 1080p
- · Compatible with all HDMI source devices, PC monitors, Plasma HD display, HDTV and audio receivers/amplifiers
- Digital Video TMDS formats resolutoins up to 1080p60 with Deep color 36-bit
- Digital Audio Support : Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
- Various User Interface control:
 - · Windows based GUI control via RS-232 port
 - · Windows based GUI control via TCP/IP port (not a web-browser)
 - Front panel push button
 - · IR wireless remote control
 - Third party RS-232 controller (via simple ASCII)
 - Ethernet TCP/IP control switch (via RJ-45 connector)
- Supports world wide control functions: ALL/OFF/RECALL/ENTER/MEMORY/EDID/LOCK
- Supports EDID modes :
 - Embedded EDID Modes : FSS/H24-3D/H24-3D-M/H36-3D/H36-3D-M/DVI-D 1280x1024-60Hz/DVI-D 1920x1200-60Hz
 - External Modes : Learning mode
- · Automatic scanning input & output status via LED show on front panel
- Support preview output port simultaneously output #1
- Support IR Remote and IR Extender with distance up to ~984 ft (300M) Maximum
- · EDID configuration via Internal modes
- · Consumer Electronic Control (CEC) switch all open or OFF

The Switcher will remember that last state during a power cycle. When power is removed and resorted, the last configuration will be invoked.

SPECIFICATIONS

SPECIFICATIONS

- Type of Switcher: 8x HDMI inputs to 8x HDMI outputs Matrix Switcher
- HDMI Support: HD 1080p-@60Hz, H36-bit Deep color, 3D (1.4a) formats
- HDCP / CEC Support: HDCP 2.0 Compliant, CEC Compliant
- Video Bandwidth: Double Data Rates: 225Mhz, Total 6.75Gbps bandwidth
- Digital Video Support: Full HD Resolution : 480i / 480p / 720p / 1080i / 1080p
- Digital Audio Support : Multi Audio Formats 5.1 / 7.1, MAT(MLP), Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6.1, DTS-HD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
- Controls:
 - 1x IR Remote Controller (remote switcher)
 - 1x Select & Function buttons on front panel
 - 1x IR External port (switch control)
 - 1x RS-232 series interface (switch control)
 - 1x Ethernet series interface (switch control)
- Preview Output: Supports 1x preview output port simultaneously via Output-#1
- · Source Status: Automatically Scan Sources Inputs via LED
- Function Keys: ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
- Infrared Frequency: 38 Khz
- IR External Distance: ~984 ft/300M maximum
- HDMI I/O Connector: HDMI Type A SMD 19pin Female Type
- Temperature: 32 °F 100 °F Operation (0 °C 32 °C)
- Dimensions (LxWxH): 19 x 9.85 x 1.75 in (482x250x44 mm)
- Rack Mount: Rack Mount 1RU High 19 "Rack Mount (with rack mount)
- Power Supply: DC12V / 5A, Universal world wide Type 50/60Hz, 100~240 VAC
- Power Consumption: 3880 mA Maximum
- Safety Approvals: CE, FCC, REACH, WEEE
- Product Weight: 2.50 Kg/4.2 lb

FRONT PANEL

FRONT PANEL



1 POWER SWITCH

The power switch turns the unit on and off. The LED will illuminate red to indicate that the switcher is ON and is receiving power. The Switcher will remember that last state during a power cycle.

When power is removed and resorted, the last configuration will be evoked.

11 INPUT STATUS DISPLAY

Input sources 1 to 8 LCM illuminates blue to indicate that a video source is present on that input.

3 OUTPUT STATUS DISPLAY

Each Output (destination) Channel shows which input (source) is assigned.

4 IR SENSOR

The IR sensor receives IR commands from the supplied remote controller or third party IR emitter.

5 DESTINATION SELECT BUTTONS

Separate outputs 1 thru 8 select buttons are provided for each destination assignment. Routing can be Source to Destination or one source to multiple destinations. *Example : Press Destination 1,3,5 then press Source 2 will route Input 2 to Output 1,3,5 respectfully.*

6 EDID MODE SELECT BUTTONS

Used to select EDID mode using buttons #1 thru #2

O SOURCE SELECT BUTTONS

Separate inputs 1 thru 8 select buttons are provided each source selection.

FRONT PANEL

FRONT PANEL





Disables (mute) video on all destinations OR Selects the same source to all destinations.

Option 1

- Press <u>ALL</u> followed by <u>OFF</u> button. The display will show "0" indicating all destinations have no video selected. Option 2

- Press ALL followed by Source 1 thru 8. The display will show the Source selected.
- Press ENTER The pre-set source selection will be assigned all destinations.

9 FUNCTION KEY - OFF



Disables (mute) video to selected channels. Either destinations.

- Press **OFF** button followed by any Destination channel.
- Press 1 thru 8 output destination. The display will show "0" for the selected channel indicating no video selected.

10 FUNCTION KEY - RECALL



The system will show previously stored presets, up to a total of 8. Presets are stored in local memory using Source keys 1 thru 8 or Destination keys 1 thru 8 as the memory preset location.

- Press **<u>RECALL</u>** button.
- Press 1 thru 8 on either Source or Destination row.
- Press ENTER The pre-set configuration will execute.

Operation completes.

Note : Operation will abort if no keys are pressed within 5 seconds.

1 FUNCTION KEY - ENTER

Press **ENTER** to confirm entries.

FRONT PANEL

FRONT PANEL



10 FUNCTION KEY - MEMORY



The system will show store presets, up to a total of 16. Presets are stored in local memory using Source keys 1 thru 8 or Destination keys 1 thru 8 as the memory preset location.as the memory preset location.

- Configure desired matrices..
- Press MEMORY button.
- Press 1 thru 8 on either Source or Destination row.
- Press ENTER to ready memory location.
- Or press MEMORY again to cancel operation.

Operation completes.

Note : Operation will abort if no keys are pressed within 5 seconds.

B FUNCTION KEY - LOCK



- Press and hold LOCK button for two seconds lockout the front panel.

- Press and hold LOCK button for two seconds to enable the front panel.

I FUNCTION KEY - EDID



- Press EDID to select new EDID mode or select source row #1 or #2 for LINK source EDID again.

- Press the DESTINATION # to learn EDID, the Destination EDID has been learned.

19 INCH EAR MOUNT PAIR

Converts desktop to 19 inch rack mount. Bracket (part # 1U-440L) INCLUDED. Image shows rack mount bracket attached.

BACK PANEL

BACK PANEL



TYPICAL APPLICATION

INSTALLING DIAGRAM

Sample connection using IR External , RS-232 series and Ethernet to control HD-88G switch, Also uses an IR Receiver and IR Transmitter with HDBaseT[™] Transmitter & HDBaseT[™] Receiver to control a projector.



TYPICAL APPLICATION

INSTALLING DIAGRAM

Sample connection sending IR signal via HDBaseT™ Receiver (IR in) to HDBaseT™ Transmitters (IR out) to control a Satellite Receiver source.

NOTE:



REMOTE CONTROL

Before making any connections to the switcher. Observe the following:

- > Ensure the mains voltage supply matches the label on the supplied plug-pack (+/- 10%)
- > Ensure that the power switch is OFF
- > Ensure that all system grounds (earth) are connected to a common point.
- > Avoid powering equipment within a system from multiple power sources that may be separated by large distances
- > Connect all audio video sources and destination equipment
- > Power up all source and destination audio-visual sources
- > For each destination output select the appropriate input source by using the front panel input 1~8 select buttons. The supplied IR remote control. Or through the RS-232 serial communications port.
- > Upon power up the switcher will return to its last used setting before powered down.

IR REMOTE CONTROL KEY

1 2 SWITCH POWER ON or OFF

Controller with a separate power ON and OFF

3 DESTINATION : 1 thru 8 OUTPUT SELECTION

Press the destination button to select the output display channel.

4 SOURCE : 1 thru 8 INPUT SOURCE SELECTION

Press input 1~ 8 sources with selection button

5 FUNCTION KEY

ALL - function selection button OFF - function selection button EDID - function selection button RECALL - function selection button MEMORY - function selection button ENTER - function selection button LOCK - function selection button



REMOTE CONTROL

IR REMOTE CUSTOM AND DATA CODES (NEC STANDARD)

HOW TO SETUP IR CODES :

Model number : HD-88G CUSTOM CODE : 857A

POWER ON : 857A A15E POWER OFF : 857A A25D

 ALL :
 857A B04F

 OFF :
 857A B14E

 EDID :
 857A B748

 LOCK :
 857A B54A

 RECALL :
 857A B24D

 MEMORY :
 857A B44B

 ENTER :
 857A B34C

PRESS TV DESTINATION - # then PRESS AV SOURCE -

DESTINATION #1 : 857A 10EF DESTINATION #2 : 857A 20DF DESTINATION #3 : 857A 30CF DESTINATION #4 : 857A 40BF DESTINATION #5 : 857A 50AF DESTINATION #6 : 857A 609F DESTINATION #7 : 857A 708F DESTINATION #8 : 857A 807F SOURCE #1 : 857A 01FE SOURCE #2 : 857A 02FD SOURCE #3 : 857A 03FC SOURCE #4 : 857A 04FB SOURCE #5 : 857A 05FA SOURCE #6 : 857A 06F9 SOURCE #7 : 857A 07F8 SOURCE #8 : 857A 08F7

For example;

Select Destination # 1 to show Source #1~8,

The IR Data Code list :

Destination #1, Source #1	857A	10EF	857A	01FE
Destination # 1 , Source #2	857A	10EF	857A	02FD
Destination # 1 , Source #3	857A	10EF	857A	03FC
Destination # 1 , Source #4	857A	10EF	857A	04FB
Destination # 1 , Source #5	857A	10EF	857A	05FA
Destination # 1 , Source #6	857A	10EF	857A	06F9
Destination # 1 , Source #7	857A	10EF	857A	07F8
Destination #1, Source #8	857A	10EF	857A	08F7



Pin configuration for IR 984 feet (300M) Extender Receiver such as ANI-100 compatible



ANI-100 Receiver and ANI-101 Transmitter The DISTANCE maximum ~ 984 feet (300M)

Pin configuration for IR Receiver 6 feet (2M) cable such as ANI-100C compatible



Note: The External IR jack has voltage on the "Ring" portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug). Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.



*** When you plug the External IR extender into the switcher, the front panel IR transmitter remains active. ***

PIN CONFIGURATION:

ANI-101 and ANI-101C Transmitter Pin configuration



Note: The External IR jack has voltage on the "Ring" portion of a 3-conductor plug. You must use a 3-conductor plug (aka: stereo plug). Using a 2-conductor plug will short out the power supply. Always make connections with the switcher power off.

EDID FUNCTION

EDID FUNCTION SETUP		
	o change the EDID setup	
Step 1. Press the EDID button T	he display will show the currently selected EDID mode	
	The button will flash blue and the display will show the current Embedded EDID Status.	
Step 3. Press the ENTER button T	o set EDID mode. The switcher will return to operation mode.	
Operation will at	ort if no keys are pressed within 5 seconds.	
Embedded EDID modes	Total 7 EDID Modes	
Embedded EDID setup Press EDID > SOURCE > ENTER SOURCE #1 or SOURCE #2	To select Embedded EDID mode or LEARNING mode Press EDID button : The LCM will show the current EDID status. EDID : 2. H24-3D, PCM 2CH	
Select Embedded EDID : Mode 1 : FSS Mode 2 : H24-3D Mode 3 : H24-3D-M Mode 4 : H36-3D Mode 5 : H36-3D-M Mode 6 : DVI-D 1280x1024-60Hz Mode 7 : DVI-D 1920x1200-60Hz	Repeatedly depressing the source 1 button will cycle up thru the options. Repeatedly depressing the source 2 button will cycle down thru the options.	
RESET	EDID Return To Factory default	
	LDID Return to ractory default	
How to RESET EDID mode Press EDID > RECALL > ENTER	RESET To the FACTORY DEFAULT (1080p-2CH). Press EDID button : The LCM will show the current EDID status. Press RECALL button : The LCM will show the RESET EDID. EDID : RESET EDID Press ENTER to confirm entries. The EDID will return to FSS mode and resolution 1080p-2CH. EDID : 1. FAST SPEED START	
Press EDID > RECALL > ENTER	RESET To the FACTORY DEFAULT (1080p-2CH). Press EDID button : The LCM will show the current EDID status. Press RECALL button : The LCM will show the RESET EDID. EDID : RESET EDID Press ENTER to confirm entries. The EDID will return to FSS mode and resolution 1080p-2CH. EDID : 1. FAST SPEED START Learning EDID from Destination to Source	
Press EDID > RECALL > ENTER	RESET To the FACTORY DEFAULT (1080p-2CH). Press EDID button : The LCM will show the current EDID status. Press RECALL button : The LCM will show the RESET EDID. EDID : EDID : RESET EDID Press ENTER to confirm entries. The EDID will return to FSS mode and resolution 1080p-2CH. EDID : 1. FAST SPEED START Learning EDID from Destination to Source Press EDID > DESTINATION Button: The LCM will be show LEARNING. DES.KEYS + Learning	

EDID FUNCTION

EDID function : 7x Embedded EDID Modes		
Mode 1. FSS [®] (Fast Speed Start) ED ID : 1. FAST SPEED START	Fast Speed Start mode shortens the startup time of the switcher. Selecting this mode does not force the EDID setup to be cancelled. Users may first select one EDID mode from mode 2 to 3, and then select mode 1 for fast speed start.	
Mode 2. H24-3D (1080p-24 bits) ED ID : 2. H24-3D, PCM 2CH	Video Support : All resolutions up to and including 1080p. Audio Support : PCM 2CH	
Mode 3. H24-3D-M (1080p-24bits) EDID : 3. H24-3D, MULTI AUDIO	Video Support : All resolutions up to and including 1080p. Audio Support : MAT(MLP) 7.1CH, PCM 2CH, One Bit Audio 2CH, AC-3 5.1CH, DTS 5.1CH, PCM 7.1CH, Dolby Digital + 7.1CH, DTS-HD 7.1CH	
Mode 4. H36-3D (1080p-36 bits) EDID : 4. H36-3D, PCM2CH	Video Support : All resolutions up to and including 1080p. Audio Support : PCM 2CH	
Mode 5. H36-3D-M (1080p-36 bits) EDID : 5. H36-3D, MULTI AUDIO	Video Support : All resolutions up to and including 1080p. Audio Support : MAT(MLP) 7.1CH, PCM 2CH, One Bit Audio 2CH, AC-3 5.1CH, DTS 5.1CH, PCM 7.1CH, Dolby Digital + 7.1CH, DTS-HD 7.1CH	
Mode 6. 1280x1024-60Hz (DVI-D) ED ID : 6.1280×1024-60HZ DVI-D	DVI Support : DVI-D 1280x1024 60Hz	
Mode 7. 1920x1200-60Hz (DVI-D) ED ID : 7.1920x1200-60HZ DV I-D	DVI Support : DVI-D 1920 x 1200 60Hz	

EDID FUNCTION

EDID FUNCTION : LEARNING	
Learning EDID Single to Single	Example : Learn Destination #8 EDID To Source #5.
Step 1. Press the EDID button	The button will flash blue and the display will show the current Embedded EDID Status.
Step 2. Press the Destination #8 button row	Copy the Destination #8 Display EDID.
Step 3. Press the Source #5 button row	Learning the Destination #8 EDID To Source # 5.
Step 4. Press ENTER button	To confirm entries.
Learning EDID Single to multiple	Learning destination EDID link to the majority Sources
Step 1. Press the EDID button	The button will flash blue and the display will show the current Embedded EDID Status.
Step 2. Press the Destinations #1~8 button row	Copy any 1~8 Destinations EDID.
Step 3. Press the Source #1, #6, ~#8 button row	Learning the Destination EDID link to source #1, #3, ~#8.
Step 4. Press ENTER button	To confirm entries.
Learning EDID Single to ALL	Learning destination EDID link to All Sources
Step 1. Press the EDID button	The button will flash blue and the display will show the current Embedded EDID Status.
Step 2. Press destination button 1 thru 8	Learning anyone 1~8 Destination EDID to all sources.
Step 3. Press ALL button	Learning selected destination EDID to all sources.
Step 4. Press ENTER button	To confirm entries.
EDID status	To view the current EDID status.
Step 1. Press the EDID button	The button will flash blue and the display will show the current Embedded EDID Status.
Step 2. Press the EDID button	To exit.
How to setup FSS [®] Function	Fast speed start [®]
Step 1. Press the Destination #1~4 button row Then Press the Source #1~4 button row	To setup and Install all devices.
Step 2. Press the EDID button	Select a optimum status of Embedded EDID mode.
Step 3. Press ENTER button	To conform entries.
Step 4. Press the EDID button	To select the EDID FSS [®] mode.
Step 5. Press ENTER button	To conform entries.
LEARNING EDID definition	Learning EDID from Destination to Source

1. Switcher will $\ensuremath{\textbf{LEARN}}$ destination EDID and pass the selected source.

2. To set up learning between a single destination and single source:

Press EDID button > Press Destination 1 thru 8 > Press Source 1 thru 8 > Press ENTER to confirm.

Switcher will learn destination EDID to source device.

3. To set up learning between a single destination and Multiple sources:

Press EDID button > Press Destination 1 thru 8 > Press the majority Sources 1 thru 8 > Press ENTER.

Switcher will learn single destination EDID to many source devices.

4. How to Learning single destinations with all sources. Press EDID button > Press ALL button > Press ENTER to confirm.

RS-232 SERIAL INTERFACE

RS-232 SERIAL INTERFACE CONNECT a PC or CONTROL SYSTEM. VERSION COMPATIBLE V1.0 & V1.5

For a complete list of commands, please reference external document extended RS-232 Protocol Instruction Manual.

RS-232 Configuration

RS-232 cable is a straight thru cable and not null-modem



RS-232 Pin Diagram



RS-232 SERIAL INTERFACE PROTOCOL COMMANDS (Ethernet / RS-232 Control driver V2.0)

The HD-88G switcher can be controlled via the RS-232 serial control port to allow for interfacing to a PC, or similar third party control system.

The serial communication parameters are 9600 baud, 8 bit, No Parity and 1 stop bit - this is often referred to as 9600 8N1. When the unit recognizes a complete command it will perform the requested action - there is no delimiter character required.

ETHERNET SERIAL INTERFACE

ETHERNET SERIAL INTERFACE CONNECT A PC OR CONTROL SYSTEM. VERSION COMPATIBLE V2.0

For a complete list of commands, please reference external document extended Ethernet Protocol Instruction Manual.



ETHERNET SERIAL INTERFACE			
Pin	Ethernet	Reference	
1	TXOP	TX +	
2	TXON	TX -	
3	RXIP	RX +	
4	NC		
5	NC		
6	RXIN	RX -	
7	NC		
8	GND		

ETHERNET TCP/IP PROTOCOL COMMANDS (Ethernet / RS-232 Control driver V2.0)

*** When Ethernet is used, the switcher will not accept commands from the RS-232 port. ***

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