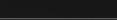
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P8-HDBT2-U-FFMJ66-KIT

USER MANUAL

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PULSEEIGHT







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INTRODUCTION

The neo:XSR is a 6x6 HDMI[®]/HDBaseT video matrix switch and the perfect product for routing multiple 4K UHD source devices to multiple locations within your environment. Supporting HDMI[®] 2.0 a/b, the latest HDCP 2.3 and 18Gbps bandwidth this is a must-have product in any residential multi-room control system integrating with the latest 4K UHD media devices.

The Pulse-Eight neo:XSR Video & Audio Matrix has it all - with multiple video inputs and both video and audio outputs. Featuring 6 HDMI[®] inputs, 4 HDBaseT Outputs and 2 HDMI[®] outputs alongside 6 audio output zones (with the options of Optical and Digital Coax). The neo:XSR goes the distance, supporting up to full 4K/60, 4:4:4, 8bit or 4K/60 4:2:2, 12bit up to 40 meters (130 feet). With audio breakout, Dolby Digital compliance and support for multiple video control methods.

FEATURES

- Ultra HD 4K 60Hz 4:4:4 Video Transmission (up to 600Mhz)
- Latest HDCP 2.3 Support
- 6 x HDMI[®] Inputs
- 4 x HDBaseT Class C + DSC Outputs
- 2 x HDMI[®] Outputs
- 6 x Audio Output Zones
- HDMI[®] ARC
- IR Blasting feature
- HDMI-CEC Bi-Directional Control
- Alexa Voice Control
- Responsive Web Interface
- 10/100 Ethernet for 3rd party control and connection

INSIDE THE BOX (KIT)

- 1 x neo:XSR Chassis
- 1 x Rack Mounting Kit
- 1 x IR Blaster Cable Pack
- 1 x Power Cord
- 1 x Quick Start Guide



neo:XSR









Quick Setup Guide

Power Cord

Rack Mounting Kit



SPECIFICATIONS

Video Resolution	All 4K formats *, 1080p, 1080i, 720p, 576p, 480p @24/25/30/50/59.94/60Hz.	
	(* 4K resolution limited to 3840 x 2160 over HDBT)	
Video Inputs	6 x HDMI®	
Video Outputs	4 x HDBaseT + 2 HDMI [®] (6 switchable outputs)	
HDMI [®] Compliance	HDMI® 2.0	
HDCP Compliance	Up to 2.3	
Input TMDS Signal	6Gbps per data lane (18Gbps total)	
Bandwidth	18.0 Gbps	
CEC	Yes - Bidirectional	
Extender Technology	HDBaseT 2.0 (PoH compliant)	
HDBaseT Connections	4	
Transmission Distance	4K up to 40m (130ft) and 1080p up to 70m (230ft)	
Chroma Subsampling	YCbCr4:4:4, YCbCr4:2:2, YCbCr4:2:0, RGB	
Colorspace	YUV (rec. 601, rec709, rec2020), RGB	
Color Depth	8-bit, 10-bit, 12-bit	
Video Features	HDR10/HLG @ 60Hz and Dolby® Vision™ @ 30Hz	
Audio Output Connectors	6 x digital coax, 6 x optical	
IR Inputs to Room	Yes	
IR Outputs to Source	Yes (Sources connected to inputs 1-4 only)	
Ethernet Ports	1 x RJ45 (control only)	
Available On Internet	Yes, thru the Pulse-Eight's Remote Monitoring Portal	
RS-232 Ports	None	
LED Indicators	Front - 3 LEDs (System Health , Network, Cloud Monitoring) Back - Various (port and signal connectivity status)	
Operating Humidity	5 to 90% RH (no condensation)	
Operating Temperature	0 to +35°C (32 to +95°F)	
Storage Temperature	-20°C to 60°C (-4°F to 140°F)	
Power Input	IEC C14 socket	
Power Rating	100-240V, 4.0/2.0A, 50/60Hz	
Surge Protection	AC Input : IEC61000-4-5 (class 3).	
Rack Spacing	20	
Certifications	UKCA, CE, FCC (SDoC), RoHS	
ESD Protection	Human Body Model: 15kV air, 8kV contact	
Included Accessories	Rack mounting accessories, Power cable.	
Drivers	Control 4. Others available – please enquire.	
Dimensions (W x H x D)	17.32" x 12.44" x 3.50"	
Weight	8.65 lb	
Box Dimensions	22.83" x 14.72" x 5.12"	



SAFETY PRECAUTION

Please read the instructions before attempting to install or operate this equipment. 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 prevent fire or shock hazards, do not expose the unit to rain, or moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Please use the included mounting kit where applicable, avoid blocking any vents on the product and follow best practices in rack design to help avoid overheating.
- Only use the supplied IEC cable.
- Never push any objects into this product through any openings or empty slots in the unit as you may damage parts inside and/or cause an electrical shock.
- Do not allow anything to rest on the power cabling and avoid putting the weight of any kind on it.
- To protect the unit from overheating do not block any vents or openings in the unit housing that provides ventilation. Allow sufficient space for air to circulate around the unit.
- This product is intended for use in a clean (dust-free) residential environment.

Ventilation

It's important to keep the product well ventilated when installing this Pulse-Eight matrix.

Any electronic equipment will generate heat. A well-ventilated area helps to disperse the heat. If placed in a poorly ventilated area, your equipment may heat up and cause irreparable damage to the circuitries. Allowing systems to run for prolonged periods under high temperatures will break down circuitry and electrical component. It also applies if the device is left in the path of direct sunlight or near any heat source.

Dust tends to accumulate and will disrupt the fan and electronics system. Dust particles contain various compositions like water, oil, and other minerals or chemicals. Having them in your electronic device can sometimes cause a signal error or degradation to the internal chips and circuitries. Because we cannot accurately predict how or when they can affect your device, we highly recommend that you keep Pulse-Eight products not only in a well-ventilated area but also as clean as possible.

In some cases, insects or reptiles can make nests near or inside the electronic casing. Whilst we design our products to maximize the protection of internal electronics, please be aware that insects and reptiles can be drawn to these types of habitats. In the unlikely event, this does happen, this will lead to poor ventilation inside the unit, and it will be unable to disperse heat effectively.

Finally, whenever possible, do not stack audio and video matrixes together. Leave enough space in between each unit in order to provide good airflow.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



PANEL DESCRIPTIONS





- System Health LED indicates matrix health. RED - It is powering on or fault found. GREEN - The system is healthy.
- B Network LED indicates the matrix network connection.
 RED No network cable is connected.
 AMBER (Flashing) It discovers the IP address.
 AMBER (Solid) The network has the IP but cannot ping the router.
 GREEN (Flashing) The network cannot reach the internet.
 GREEN (Solid) The network is healthy.
- Cloud LED indicates the matrix connection to the Pulse-Eight Cloud. RED - It is not connected to the cloud. GREEN - It is connected to the cloud.



D Power Connector is used with the supplied power cord to connect the power.

E IR IN and OUT Ports connect as required.

The IR IN port (black) can be used to accept and distribute IR signals from a controller using a P8-IR-Optocable, as well as distribute IR signals back to the matrix using a compliant Pulse-Eight IR Receiver. The IR OUT port (grey) is used to control the connected HDMI[®] Source device (STB, Blu-Ray, etc) using a compliant Pulse-Eight IR Emitter.

F Audio Outputs: Optical and Digital Coax options for Audio Breakouts.

G HDMI[®] **IR IN** connect as required.

The Input IR port (black) can be connected to receive and distribute IR signals from a connected HDMI® extender.

- HDBaseT Outputs: Connect the appropriate Cat 5e or higher grade cable to each output. These cables should then be connected to a neo Receiver at each Sink device. (TV/Amplifier etc.).
- **HDMI® Inputs**: Connect the appropriate high speed HDMI[®] cable to each input. These cables should then be connected to the Source device. (Blu-Ray player etc.)
- **I** Reset: Factory reset Please use only when instructed by our customer service team.
- **(C)** Ethernet: Connect to network Required for connection to Web Interface, Third Party Control, and Cloud Remote Monitoring Portal.
- **(** HDMI[®] Outputs: Connect the appropriate high speed HDMI[®] cable to each output. These cables should then be directly connected to each Sink device. (TV/Amplifier etc.)



INFRARED BLASTER CABLE PACK

1. IR Transmitter 3.5mm Stereo Jack - An IR flasher (emitter) is required when wanting to output (blast) an IR command to an attached device. Please use compliant Pulse-Eight IR emitters (5V) as failure to do so might result in damage to the product.



2. IR Receiver 3.5mm Stereo Jack - An IR receiver is required when wanting to accept incoming IR signals - for example, from a remote control - to distribute and control other attached devices remotely. Please use compliant Pulse-Eight IR receivers (5V) as failure to do so might result in damage to the product.

NEO:ULTRASR RECEIVER



- A IR Activity Indicator The LED will flash green when an IR signal is being received and red when an IR signal is being transmitted.
- **B** IR Flasher (TX) The IR Flasher port (grey) is used to control the connected HDMI[®] Sink device (TV) using the IR transmitter.
- **C** IR Receiver (RX) The IR Receiver port (black) can be used to distribute IR signals back to the matrix when connecting an IR Receiver.
- **HDBaseT Input** Connect the appropriate category cable (Cat 6 or higher recommended) to the each input of the receiver; these cables should then be connected to one of the HDBaseT outputs on the matrix. The LEDs will illuminate to indicate a link (amber LED) and video (green LED) is being received.
- **E** HDMI[®] Output Connect the appropriate high speed HDMI[®] cable to this port and connect to the sink device.



HDBASET CABLING

What Is The Best Type Of Cable To Use?

Pulse-Eight products use the HDBaseT standard, which makes use of standard Category (Cat) cables. The minimum cable used on a neo system is Cat 5e, but it is recommended to use a higher tier cable such as Cat 6, Cat 6A, or Cat 7 where possible because they have stricter twisted pair and shielding requirements that reduce data loss between data pairs.

Patch cabling is strongly discouraged because it can degrade the signal. Use a long, single high-quality cable for each HDBaseT port whenever possible to allow the system to function at its best.

We do not recommend using pre-made leads unless you are certain of the correct specifications (i.e., solid core 568B); using lower quality cables will result in signal degradation and transmission quality.

Note: Please keep in mind that Copper Clad Aluminum (CCA) cables aren't supported. This will cause a HDBaseT performance issue due to the inherent properties of a CCA.

Shielded Cables

If you prefer shielded FTP cables, please use compatible shielded features such as grounding and termination. A faulty cable can increase interference rather than eliminate it.

Cabling Best Practice

Our recommended and best practise policy is to connect the Pulse-Eight matrix directly to the receiver using a straight cable. This will ensure the best signal quality and the greatest possible distance. On the HDBaseT Alliance website, you can find more information on "HDBaseT Best Practices." https://installers.hdbaset.org/wp-content/uploads/2014/09/Dos-and-Donts-WP.pdf

Wall Plates and Patch Panels

If the patch panels are properly terminated, there should be little distance loss. However, the use of wall plates and patch panels has the potential to increase cable resistance and, if not done correctly, could reduce advertised transmission lengths. Brush plates can be used instead of RJ45 wall plates to keep the finish neat.

Connection Termination

For Cat 5/Cat 6 UTP (unshielded) cable, we recommend using full plastic encasements rather than metal ones to avoid any grounding leaks into the Pulse-Eight products. However, when using shielded cables (STP), then please ensure to use metal connectors and that the Cat cable's shield/foil and drain wire are making good contact with the connector's shell.

Terminate the cabling using RJ45 connectors to the 568B wiring standard. (See diagram below).



IMPORTANT: Please note that local building regulations may apply to the installation of cabling in properties. It is important to check building regulations to guarantee that you are in accordance with the laws of your territory.



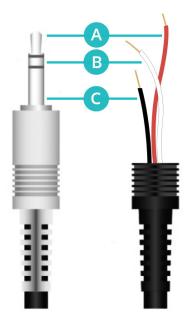
IR PIN ASSIGNMENTS

Pulse-Eight strongly recommends the use of the IR accessories provided. We do not support 3rd party IR component as it could damage the matrix.

The standard range of Pulse-Eight matrices utilise a 3.5mm stereo jack, both for IR flashers and receivers buds. We strongly recommend purchasing a Pulse-Eight Mono-Stereo Optocable when necessary in your installation.

Note: If you do require rewiring the IR plug to work with a 3rd party device then please note that this will void the warranty on the matrix if there is damage caused.

The Schematic provided below is as a reference only.



A Tip - 5V Power (reveiver only).
B Ring - IR Signal.
C Sleeve - Ground



INSTALLATION

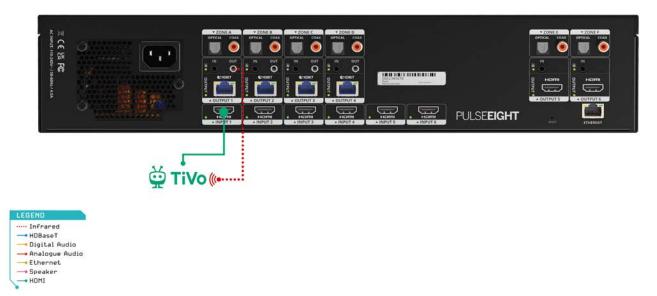
Installing In A Rack



- 1. Attach the rack ears to the front sides of the matrix using the provided screws.
- 2. Install into the rack and connect cabling according to the mode of operation as described below.

WARNING: To prevent damage, it is important to ensure adequate ventilation space on the sides of the matrix, especially on the ventilation openings on the side of the product enclosure.

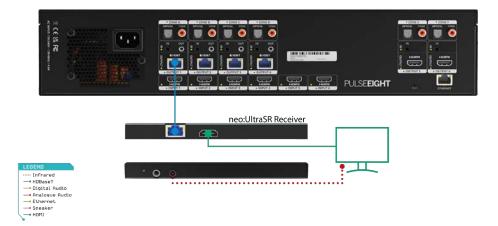
Connecting The Inputs



- 1. Connect HDMI[®] cables from your video sources (e.g. Blu-Ray player) to the HDMI[®] inputs of the matrix.
- 2. If required, connect the compatible IR Flasher (Emitter/Transmitter) cable to the 'OUT' port (grey) on the matrix and the IR bud placed over the source device's IR window.
 - Note: It is recommended, for ease of setup, to connect devices from Input 1 to Input 6 first. IR OUT (flasher) is only available for Inputs 1, 2, 3 and 4. There are no IR flashing capabilities for Inputs 5 and 6.



Connecting The HDBaseT Outputs



- 1. Connect the appropriate category cable (Cat 6 or higher recommended) to each HDBaseT output ports that you require.
- INote: It is recommended, for ease of setup, to connect devices from Output 1 to Output 4 first.
- 2. Complete the connection by attaching the other end of the Cat cable to a supplied neo Receiver's 'HDBaseT In' port. The neo Receiver should be situated at the output end (i.e. next to the TV).
- INote: Use only neo:Ultra Receiver (P8-HDBT2-U-RX) or neo:UltraSR Receiver (P8-HDBT2-L-RX)
- 3. Connect HDMI® Out on the neo Receiver to the sink device (i.e. TV) using a high-speed HDMI® cable.
- 4. If required, connect the IR Receiver to the neo Receiver's 'IR Receiver' port and place the IR bud on the underside of the sink device (i.e. TV).

WARNING: Please make sure to use a compatible 5V IR receiver/transmitter on this product. Please refer to IR Receiver and IR Flasher in the Compatible Devices section.

Connecting The HDMI® Outputs



For Output ports 5 and 6, connect sink devices (e.g. TVs) directly via high speed HDMI[®] cables.

Note: Can also be used in conjunction with a Pulse-Eight neo HDMI[®] Extender Set (sold separately) for reaching further distances.



Connecting The Audio Outputs





If you wish to use the audio outputs from the matrix, please connect cables to the relevant output. There are 6 output zones, where each zone features Optical and Digital Coax options that can work simultaneously.

There are two audio modes of operation: **Source Mode** and **Sink Mode**. By default, when you first install the matrix, the unit is set to sink mode with each zone set to passive.

🗐 Note: The audio outputs allow matrixing in Sink Mode, please refer to Web Interface Setup to find out more.

IMPORTANT: The matrix needs to be set to Sink mode or Source mode according to the installation's requirement, and wired accordingly. Please ensure that you set up the matrix to the correct audio mode in the Audio Control tab of the WebUI.

SINK MODE VS SOURCE MODE

Sink Mode is the preferred method when setting up the neo:XSR in an installation that does not have a dedicated audio matrix switch.

Sink mode allows for audio routing from any input to any of the audio output zones, which by default is intended to match the video routing.

There are two sub-modes of operation for each output zone:

- ARC (HDMI®). When feature is enabled, the matrix will automatically manage when audio is coming directly from the TV, over the HDMI® Audio Return Channel (ARC), and output over the respective audio zone output.
- Disabled. This feature will disabled the ARC feature.

Source Mode is generally used in larger installations where the input audio is being fed directly to one or more dedicated audio matrices (e.g. ProAudio switch).

In this mode, the audio outputs zones A to F are locked to HDMI[®] inputs 1 to 6 respectively.



Connecting To The Network



It is necessary to connect a standard Ethernet cable (Category 5e/6/7) from the matrix's 'Ethernet' port to your router or network switch. Crossover cables are not supported.

In Note: A network connection is required for supporting full control/remote monitoring features of the product.

Turning On The Matrix

PULSEEIGHT	- /	
	VIDEO & AUDIO	
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- 1. Insert the supplied power cord and plug into the AC mains and turn it on.
- 2. As it powers ON, the front panel LEDs (System Health, Network, Cloud) will illuminate momentarily before it begins its initialization sequence.
- Note: The initialization process takes between 20 seconds and up to 2 minutes. However, it is possible that a firmware update may be available the first time the unit is powered ON in this instance the matrix may take longer to initialize. If both the System Health and Network LEDs flash (green) quickly together then a firmware update is being applied. Please wait and do not disconnect the power until this update has completed.
- 3. Once initialization has been completed, the System Health, Network and Cloud LEDs should all appear ON (green).
- 4. Check the LED status on the attached neo Receivers to ensure correct installation and connection. See LED Status in Troubleshooting section.
- Note: When a link is established between the Matrix and the Neo Receiver, the orange LED on the HDBaseT port on the Neo Receiver will illuminate (at this point you can assume that the neo receiver is powered on).



IR RECEIVER AND TRANSMITTER PORTS



This section is only required when utilizing IR flashers or Receivers in your installation.

- 1. The IR ports above the HDBaseT outputs work as follows:
 - IN port (black) is a 3.5mm stereo socket that accepts an IR input signal coming into the matrix intended to be sent to another room over the HDBT output below. It extends the IR signal from the matrix to the attached neo Receiver's IR-Flasher port.

You can connect these ports directly to a 3rd party Control system processor/controller. A P8-IR-Optocable might be required.

- OUT port (grey) is a 3.5mm stereo socket output designed to attach an IR Flasher to control the Source (Blu-ray, STB, etc) connected to the HDMI[®] input below. The original IR signal can come from the following:
 - "IP to IR Blasting" feature, exclusive to Control4, allows for an IP command to be converted to IR signal intended for the attached source. See more information on the "IR Blasting" section.
 - Any IR signal received by an attached neo Receiver will be routed back to the corresponding 'IR OUT' port, according to the video routing to that HDBT output e.g. if the matrix is routing video from HDMI® In #2 on to HDBT out # 4, then the any IR signal received by the neo Receiver attached to HDBT port #4 will be routed and blasted out the matrix's IR OUT port #2.

Note: There are no IR ports (IN or OUT) above the HDMI inputs 5 and 6.

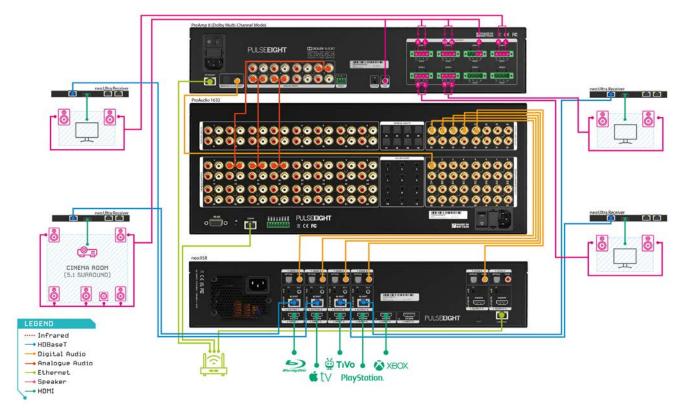
- 2. The IR ports above the HDMI[®] outputs are a little different:
 - IN port is only required when using an external HDBaseT extender. It is designed to receive the incoming IR signal from the HDBaseT set connected to the HDMI[®] output. The IR signal will then be routed to the corresponding 'IR OUT' port on the matrix according to the video routing.

Note: If a display is connected locally (i.e. there is no HDBaseT extender set connected to HDMI[®] output) then this IR INPUT port should generally not be required in an installation.



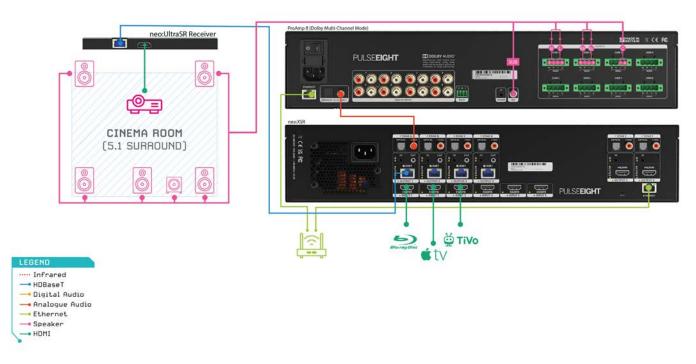
WIRING GUIDELINES

Source Mode



This is an example of a wiring diagram of the neo:XSR with a dedicated audio matrix switch (e.g. ProAudio1632) and an amplifier (e.g. ProAmp8).

Sink Mode



This is an example of a wiring diagram of the neo:XSR without an external Audio Matrix Switch.



NEO WEB INTERFACE

The front page of the web interface features a user-friendly drag and drop for video routing and display showing all available inputs and outputs. The following steps instruct how to access and customise this for the end-user.

NGO			PULSEBIGHT
сонтнов.	VIDEO ROUTING		
Video Routing	Homi Hoceb	Home Colors Drag and drop	
NETWORK	Inputs	Outputs	
N Cloud Connection		CHORT.me TV	
0.01451048	Homi Input 2	SHDET	
ල් All Displays Of	HOME Input 3		
	Homi Input 4		
	HOME Input 5	Hazimi Hoopeaa Output 9	11 11 11
	Haamii Input 6	HOMPIN Output 10	
	© 2923 A8 rights reserved		

Accessing The Admin Area

When setting up the neo:XSR matrix, it is important that the installer can access the admin menu on the Web Interface to configure the matrix according to the installation's requirements.

The Web Interface can be accessed using a computer connected to the same router/network as the matrix and by visiting www.gotomymatrix.com in your web browser. Navigate to the Cloud Connection tab (on the left-hand side) and then click on '[Admin]' link at the foot of the page. Insert your password to log in and access all options.

Note: The default password is "**admin**". It is recommended that this is changed to a unique and memorable password once setup has been completed.

Neo		PULSEBIGHT
econnec. # Video Routing	MONITORING hourly health check of your system	
In Terrolic R Cloud Connection	Secial PSDA000001 System Status Headiny	
O All Displays Of	CLOUD CONNECTION connection to the Pulse-Eight device cloud	
	Connection Nations Connected Alexa This reptom can automatically integrate with Alexa Value Services.	
	1	
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Link The Installer Account

On the Cloud Connection page, insert your Pulse-Eight Installer ID (4-digit) into the box and save changes - this will enable the matrix to be linked to your monitoring account.

Note: If you do not already have an Installer ID then you will need to register for a new account. Please contact your local representative or visit monitoring.pulse-eight.com/Account/Register.

Once you have entered your Installer ID, you will be able to gain access to the Cloud Monitoring Service to monitor all of your Pulse-Eight installations remotely in one place.

For more information, refer to the "Accessing the Monitoring Portal" section in this manual.

Neo			
ADMINISTRATION	MONITORING		
# Video Routing	keep your system up to date and get notified automa	atically if a problem occurs	
🖤 System Heath	System Status	Healthy	
Sh Cloud Connection			
 Network Settings 	Last Monitoring Pulse Sent	Thu Jun 16 2022 10:50:23 GMT+0800 (Malaysia Time)	
0\$ Routing Control	iostaller id	XXXX Save Changes	
48 Audio Control			
Front Panel		Send Montoring Pulse Now	
Hardware Details	CLOUD CONNECTION connection to the Pulse-Eight device cloud		
	Connection Status	Connected	
	Alexa	This system can automatically integrate with Alexa Valve Services. Serlar Valve Services	
	© 2022 PULSE EIGHT All rights reserved (User) (Admer)		

Input and Output Options Setup

To access the Input and Output Setup options, click on the 🚍 symbol for changing the selected Input settings and the 🖵 symbol for changing the selected output settings.

NGO			PULSEEIGHT
ADAMETTACIA	VIDEO & AUDIO ROUTING		
 Video Routing 	select a port to see its routing path		
 System Health 			
Cloud Connection	Inputs	Outputs	6
. Network Settings	HOTHE TAPPLE	ENDET 1> SAMSUNG	C.
Control		Emperture 2> Output 2	<u></u>
Audio Control	A CONTRACTOR OF A CONTRACTOR O		
Front Panel	HISTIN 3 > Input 3		
à Hardware Détails	HCCPBB 4> Input 4		
	Hami 5 Input 5	S> Output 5	
	Histmi 6 > Input 6	Hami 6> Output 6	
	© 2523 All rights reserved [User] [Admin]		



Input Setup Options

Input 1		×
Name	Sky TV	
Control Method	Sky UK v 192.168.1.108	Mode: Detecting
Hidden	\bigcirc	
EDID Profile	HDR10/Dolby Atmos	 EDID Details
Video Signal	2160p50 HDMI	
		Close Save changes

Name: Change the name of the selected input. This name will be displayed on the source list on the display device (TV) menu.

Control Method: Change the control method for the supported Set Top Box. They are:

- CEC (default control)
- Sky UK
- TiVo/Virgin
- Kodi
- Dish
- DirecTV

If using IR blasting to control attached sources, then leave the control method as CEC (default)

Note: The listed Set Top Boxes (i.e Sky/Virgin/TiVo/Kodi/Dish/DirectTV) can be controlled automatically by the matrix over IP. You will need to enter the IP address of the STB.

The matrix will need to reboot for the changes to take effect and for the control to work.

Hidden: Turn on to hide the selected input from the end user's web interface.

EDID Profile: Drop down menu to select an alternative EDID profile for the selected Input. See the EDID Management section of this manual for more information.

EDID Details: This will bring up a page detailing the current EDID information for the selected Input.



Output Setup Options

Output 1			×
Name	SAMSUNG 1		
Video From	Input2		~
Mirror	Nothing		~
EDID			EDID Details
Hidden	\bigcirc		Source Filtering
Link Status	HDBaseT (Active)		Remote Module Details
🛿 Link Quality	Good (1080p)	Cable Length	< 20m
		Unlink	Close Save changes

Name: Change the name of the selected output.

Video From: A dropdown list displaying the current source of the output and allowing you to change the routing for this output.

Mirror: Select an output from the list for the video to mirror another display (selected output).

EDID Details: This will bring up a page detailing the EDID information of the HDMI[®] Sink (display) connected to that output.

Hidden: The toggle switch can be turned on to hide the selected output from the end user's web interface.

Source Filtering: Toggle switches to select which inputs can be routed to the selected output display.

Link Status: Indicates if the HDBT link is active.

Remote Module Details: This will display a popup providing details on the attached neo Receiver.

Link Quality: Indicated the quality of the link. Click the icon to view Link Quality Test Tool.

Cable Length: Indicates the approximate length of the Cat cable inserted into the output. This is an estimate based on the cable's performance and may not be accurate.

Linked Device: This allows you to link this device with other Pulse-Eight products (e.g. ProAudio and/or ProAmp8) in the same network and installation.

Audio Only Mode (HDMI[®] outputs only): When either of the HDMI[®] Outputs is set to mirror another video output port and saved, a new Option/Mode for that output port's settings will appear. The Audio Only Mode switch allows the matrix to use CEC commands to control the attached AVR volume. This works by the TV sending Volume control messages back to the matrix which are then passed to this mirrored port.

INote: Ensure that after any changes you click the 'Save Changes' button.



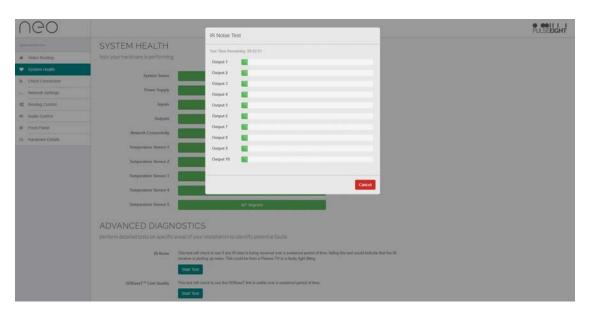
System Health

NGO			O COLL I PULSEEIGH
ADMINISTRATION	SYSTEM HEALTH		
Wideo Routing	how your hardware is performing		
 System Health 	System Status	Healthy :	
Cloud Connection	Power Supply	Pressent & Healthy	
C Network Settings			
Audio Control	Inputs	All Present & Healthy	
Front Panel	Outputs	All Present & Healthy	
Hardware Details	Network Connectivity	Healthy	
	Temperature Sensor 1	43* degrees	
	Temperature Sensor 2	38" degrees	
	Temperature Sensor 3	40° degrees	
	Temperature Sensor 4	54* degrees	
	Temperature Sensor 5	44° degrees	
	ADVANCED DIAGN	OSTICS	
	perform detailed tests on specific	reas of your installation to identify potential faults	
	IR Noise	This best will check to see if any RC data is being received over a sustained period of time, falling this test would indicate that the RC receiver is picking on protect. This could be from a Plasma TV or a faulty digit fitting.	
	HDBaseT ³⁴ Link Quality	This test will check to see the HDGaseT link is stable over a sustained period of line.	

Under the System Health tab, information about the hardware's performance is displayed. The colour-coded boxes(Green = Good, Orange = Warning, Red = Issue) will indicate if it is performing correctly along with the reading of the internal temperature sensor that will indicate if the system is overheating.

Under the System Health tab, you will also find Advanced Diagnostics that will perform detailed tests on specific areas of your installation to identify potential faults.

IR Noise Test



The IR Noise Test will check to see if any unwanted IR noise is being received over a sustained period of time for each port. Failing this test would indicate that the IR receiver on its video output zone (neo receiver) is picking up noise in its environment.

Example of failure message:

The IR receiver connected to this port is occasionally picking up stray IR messages, this may occasionally interrupt IR communication to the connected source device and/or control system. If you repeat this test and it remains in this state, we recommend relocating the IR emitter.



HDBaseT Link Quality Test



The HDBaseT Link Quality Test will check the HDBaseT link is stable over a sustained period of time. There are two drop down menus, the first is the output you are testing, the second is the type of test you are doing.

The **Mean Square Error** test is the ratio (in dB) of the signal power in relation to the originally transmitted signal vs the received and it is an analog measurement. This reading is directly affected by kinks, termination & other cable issues. Each Channel has a colour that represents the same colour in the twisted pair in the Cat cable. All four of these Channels should each be below the -15dB line. Otherwise, the cable quality will be marked as "Poor". Also, all four of these Channels should be within 3dB's of each other, for example, -21dB. -20dB. -21dB & -19dB. Otherwise, the cable quality will be marked as "Poor".

Note: If any of the above criteria is broken at any time but it then recovers to normal, this can still indicate an issue in the cabling so the matrix will remember this information and will continue to mark the cable as "Poor". This can explain if your cables look to meet the MSE test criteria but are still marked as "Poor" then it is likely to be caused by a momentary "bad spike" (reading below MSE criteria) happening in the past.

The **Channel Errors** test is a measurement of the number of digital errors on the channel, such as packet loss and bit errors. Each Channel has a colour that represents the same colour as the twisted pair in the Cat cable. All four of these Channels should be below the 40-line. Otherwise, the cable quality will be marked as "Poor". Also, all four of these Channels should be within 3 of each other, for example, 35. 36. 35. 34. Otherwise, the cable quality will be marked as "Poor".

Note: If any of the above criteria is broken at any time for any of the channels but it then recovers to normal, this can still indicate an issue in the cabling so the matrix will remember this information and will continue to mark the cable as "Poor". This can explain if your cables look to meet the Channel Error test criteria but are still marked as "Poor" then it is likely to be caused by a momentary "bad reading" (below Channel Error criteria) happening in the past.

It is also possible to check the link quality remotely by logging into your installer account at monitoring.pulseeight.com



Cloud Connection

NGO			PULSEEIGHT
ADMINISTRATION	MONITORING		
Video Routing	keep your system up to date and get notified autom	atically if a problem occurs	
 System Health 	System Status	Healty	
N Cloud Connection			
> Network Settings	Last Monitoring Palse Sent	Thu Jul 13 2023 09 47 53 GMT+0000 (Malaysia Tinte)	
0\$ Routing Control	tiontallier Id	Save Changes	
Aladio Control			
Front Panel		Send Monitoring Pulse Now	
El Hardware Details.	CLOUD CONNECTION connection to the device cloud		
	Connection Status	Canadid	
	Abuse	This system can automatically Integrate with Alexe Veloc Services Settle Veloc Servects	
	© 2023 All rights reserved (User) (Admin)		

Under the Cloud Connection tab, you will have basic monitoring information:

System Status: This colour-coded status(Green = Good, Orange = Warning, Red = Issue) will notify you if the system is healthy or if there is an issue.

Last Monitoring Pulse Sent: This will indicate the date and time when the matrix last 'phoned home'.

Installer ID: Enter your Pulse-Eight Installer ID to link to the Pulse-Eight Monitoring Portal.

Connection Status: This will detail if the matrix is connected to the Pulse-Eight Monitoring Portal.

Alexa: This matrix can be controlled by Alexa's voice command control. To set this up, please follow the 'Alexa Voice Control' section for further details.

ALEXA VOICE CONTROL

It is possible to add the neo:XSR matrix to your Alexa smart-home setup in order to control the attached Sink and Sources using voice commands.

- 1. Install the 'neo' Alexa skill from Amazon on the Alexa app.
- 2. On the Cloud Connection tab, click the 'Setup Voice Services' button, this will take you to my.pulse-eight.com with instructions on setup.
- 3. Click on the 'Login via Amazon' button and proceed to login to your Amazon account. A page will appear listing your discovered devices these are the systems available for Alexa control. Click 'Connect' next to the appropriate system.
- 4. Tell Alexa to 'Discover Devices' your system should now be connected.

Note: Alexa is a virtual assistant AI technology developed by Amazon. It is capable of voice interaction with smart speakers, but it is also used to control smart devices in home automation systems.

IMPORTANT: It should be noted that your Input and Output names on our webpage should begin differently. For example, if you have two inputs named Sky 1 and Sky 2, this can cause issues with Alexa. These should be renamed to something different, such as Mini Sky & Sky. The same applies to output names.



Network Settings

neo			PULSEEGHT
deservation	NETWORK SETTIN	iS	
 Video Routing 	how your hardware connects to the	internet and the rest of your control systems	
System Health Cloud Connection	Network Connectivity	Heading-	
 Network Settings 	Mode	DHCP	
C Routing Control	IP Address		
Audio Control	Soboet Address		
Front Panel	Gateway Address		
3 Hardware Details	Primary DNS Server		
	Secondary DNS Server		
		Save Softings	
		Save Settings	
	© 2023 All rights reserved (User; (Admin)		

Under the Network Settings tab you will find details about the system's connection to the internet and the rest of your control systems:

Network Connectivity: This colour-coded status(Green = Good, Orange = Warning, Red = Issue) will notify you if the system is connected to a network or if there is an issue.

Mode: Dropdown menu to either set a static IP and DHCP.

IMPORTANT: Ensure that after making any changes to network settings, that you click Save Settings button.

ACCESSING THE MATRIX WITHOUT AN INTERNET CONNECTION

While the neo video matrix works best with an active internet connection it is possible to still configure and operate the system without one. However, to configure the system from its defaults a local network connection is required. Normal operation of the CEC and IR control systems does not require any network connection, but IP-based API control or Web-based control does require a persistent network connection.

Discovery Tool

You can download a discovery tool from your monitoring portal at http://monitoring.pulse-eight.com/ this program will run on Windows 7 or newer only. When run it will scan your network and detect the IP address of your matrix. If you have multiple neo devices on the same network, the discovery tool will only display the last found. If you do have more than one system, it is advised that you disconnect other systems first.

The discovery tool will display the IP address of the matrix, you can then access the matrix by typing that IP address into your web browser's address bar.

In Note: It is recommended in this mode that you configure the networking to use a static IP address, this allows you to bookmark the page easily and return to the web interface easily without needing to run the discovery tool again.



Routing Control Tab

neo								P OBIL I PULSEEIGH
summer training	CEC Control							
Vites Rouling System Hauth Dia Contentian Inthest Settings Noting Content	INCEC promine ICM/CEC seatting to pro-Forebrane, or IRER/CEC Support IRER/CEC Sources Sources or Sources	6						
Audio Control Front Panel Honlower Details	Researche Construct Constant Rays	When is a crist about a baseling is baseling in baseling						
	IR Control							
	1.000							
		2	3				F :	10
	H Ryang to physical bases to summaries from to sugar Biolard Behavil & Proble Origins 1 & Proble Origins 1 & Proble Origins 2 & Proble Origins 2 & Proble	Default v	Cell Caston Profes		november (
	6.003 Aligns served (See)(Align)							

Under the Routing Control tab, you will find settings for CEC control and IR Control Section:

CEC Control

HDMI-CEC Support: Toggle switch to turn CEC control on or off, according to your requirements. By having CEC turned on, you will have the ability to control your connected devices (with CEC) without the need for a third-party Control system. The matrix can work independently. If no CEC features are used in the installation, then we recommend turning this off. However, please note that this will also disable HDMI® ARC as it utilises CEC.

HDMI® CEC Source Switching Support: This allows you to turn off/on the CEC source switching feature while keeping all other CEC features working, assuming that HDMI-CEC Support is still enabled.

Auto Pause: This feature utilises CEC and allows the matrix to automatically pause content from a Source (e.g. movie) when turning the TV off and then continue playing when routing the connected Source to another room. When the feature is not used, it is recommended to turn it off.

Remote Control Combo Keys: Toggle switch to turn on this function. If there are missing/broken keys on the TV's remote – e.g. the Guide button - then enabling this function allows you to use a combination of keys on the remote instead to achieve the missing function.

IR Control

IR Activity: A useful test for IR activity. The panel lists each IR activity box which will illuminate whenever an IR signal is received over the video output ports (HDBaseT or HDMI[®]).

IR Control Settings: IR Routing by default listens to commands from the supplied remote control to control the attached sources (e.g. play, pause, etc). However, you can also use alternative manufacturer profiles (e.g. Bang & Olufsen) for easily integrating into existing systems and backward compatibility.

Each output port can be configured to use a different IR profile, if "Default" is set, this is the profile used.



Audio Control

NGO		© ©011 1 FULSEEGHT
ADMINISTRATION	AUDIO CONTROL	
 Video Routing 	audio delay, loudness, ARC and routing style	
System Health		
N Cloud Connection	Source Mode Sink Mode	
>_ Network Settings	Mode ARC Source	
0: Routing Control	Zone B Duares + -	
Audio Control	Zitte C Durinet w	
Front Panel	Zone D Dualmet 👻	
Ei Hardware Details	Zerra E Daname v - Zerra F Daname v -	
	Source Mode: Audio and you point mime Sixe Mode Audio Foliance who monip ARC: Uses a single connection to annot audio from a TV to the sound har or AV receiver.	
	© 2023 All rights meaning [User] [Admin]	

The Audio Control tab features audio routing settings for each audio output zone of the matrix.

Source Mode / Sink Mode switch. Toggle switch according to your installation requirements. See "Connecting The Audio Outputs" in the Setup section of this manual.

ARC: A dropdown menu to select audio return function - choose between HDMI[®], or Disabled depending on the connection you have chosen on the Receiver.

ARC Source: Displays the audio return source when HDMI-ARC is selected.

Front Panel Settings

NGO	OPEN OPEN
ADMINISTRACION	FRONT PANEL
Video Routing	Control the way your hardware looks in the rack
🖤 System Health	Status 150x
N Cloud Connection	Status LEDs Control LEDs Control Status LEDs will always appear during powerup and turn off after 30 seconds if set to Off
>_ Network Settings	
02 Routing Control	
49 Audio Control	
Front Panel	
Ei Hardware Details.	
	6 2003 Ad rights makiner (Joner / Admin)

Under the Front Panel tab, you will find options for the front panel of the matrix for turning off the status LEDs.

Note: The status LEDs are in the bottom right of the front panel, these LEDs will always appear during powerup and turn off after 30 seconds if set to Off.

PULSEEIGHT

Hardware Details

NGO		PULSEBIGHT
Accession and Webs Routing	HARDWARE DETAILS Manufacturing information about your product, you may be asked for this information if you request help or support	
System Health Dout Connection	Model 17543	Raboot System
A. Cloud Connection A. Network Settings C. Routing Control	Series PROVIDED'S1 MAAC 69 (51.82 12.30 SA) Flandbasie Remains 2	
Audo Control Front Panel	HDBaseT STATUS	
El Hardware Details	details of the HDBaseT devices inside and connected to your system	
	HOBaseT Transmitters HOBaseT Recei	103
	6=16a# + Output (Transmitter) 1 Current Ferminer Version 7.5.7	
	SHORT and Output (Transmitter) 2 Current Fremmer Version 7.5.7	
	C-40817.mc Colput (Transmitter) 3 Carter Famora Venuer 7.5.7	
	GHORETUN Output (Transmitter) 4 Carent Fremen Viriant 7.57	
	© 2023 Ad sights reserved (Dave) (Admin)	

Under the Hardware Details tab, you will find manufacturing information about your product such as model, serial number, MAC, hardware revision, and current firmware version installed. You may be asked for this information if you request support.

It also details the firmware versions for the HDBaseT components (transmitters and connected receivers) in your installation.

Note: The design and features of the Web Interface are ever-evolving and may be subject to changes at any time without warning.



MONITORING PORTAL

Accessing The Monitoring Portal

Cloud	Monitori	ng Ser	vice			PULSE EIG H	H I
A Das	board Account -	My Installs	My Products	Documentation & Drivers -	Web Shop		
(0000) A	DMINISTRAT	FOR				-	
Hi ADMI	N					0000 My Installer Id	
3.10.1 F By Laura Parr /	irmware U 8 June 2022	pdate					
This firmware	available for the foll	owing products:					
neo:X+ neo:X							
Changed:							
Audio volume	vill only be controllab	le in Sink Active r	node.				
Please be awar applied.	e updating to this firm	ware will overric	le your existing a	udio settings and you will need	d to set these up in	gotomymatrix.com again once the update has been	

To access the monitoring portal please visit monitoring.pulse-eight.com, click 'Login' in the top left corner, and sign in with your registered details.

Once logged in, the dashboard will display your details including your Installer ID.

Note: If you do not already have an Installer ID then you will need to register for a new account. Please contact your local representative or visit monitoring.pulse-eight.com/Account/Register.

My Install

Under the My Installs tab you can add projects and assign your installed systems in order to easily access and monitor certain installations.

To create an install, click the 'Add New' button and insert the details on the following screen.

Cloud Monitoring	FC	LSE EIGHT	
🕋 Dashboard Account - My	Installs My Products Documentation & E	Drivers - Web Shop	
(0000) ADMINISTRATOR			
Home > My Installs			×.
1.1.1.1.1			×
NSTALLS			ADD NEW
a contra a	Status	Last Checked	ADD NEW
Name	Status Healthy	Last Checked 20 July 2021 06:11:48	ADD NEW
Name Mike Long Neo 4B Demo			ADD NEW
INSTALLS Name Mike Long Neo 4B Demo Demo Room HQ - Setup 1 Marc's Desk	Healthy	20 July 2021 06: 11:48	ADD NEW



Once created, you will then be able to assign systems to the install by clicking the 'Add' button in the 'Products' section. This will then bring up a page with a dropdown menu to select a system.

Clou	id Mo	nitori	ng Ser	vice				PULSE EIGHT
ň	Dashboard	Account -	My Installs	My Products	Documentation & Drivers -	Web Shop		
	ADMIN My Installs		R					
	NEW INST	"ALL						
Testing				Suad			0123456789	
NOTES								
								C
		ADD						



My Products

Under the My Products tab, all your assigned Pulse-Eight systems will be listed.

Note: If the system you are looking for is not listed, please make sure you have added your Installer ID into the web interface of the system.

When you click on a system, an overviewpage will appear with details of the unit such as:

- Serial Number
- Model Number
- Status
- System Temperature
- Firmware Version
- Current Uptime
- System Status Inputs
- System Status Outputs
- External Network Details
- Local Network Configuration
- System Commands
- Reboot Function

Cloud Monitoring Service PULSEEIGHT							
Account Account	- My Installs My Products	Documentation & Drivers - Web St	юр				
(0000) ADMINISTRA Home > My Products > P8SN1							
CONFIGURATION	P85N1155763						
OVERVIEW	Status:	Inputs:	Outputs:	System Temperature:			
PORT DETAILS	Healthy	All Present & Healthy	All Present & Healthy	44°c			
PORTDETAILS	Model:	Firmware Version:		Current Uptime:			
Inputs	neo:X	3.2.20	1	130 days, 16 hours, 41 minutes			
Input 1 (Input 1)	SYSTEM STATUS						
Input 2 (Input 2)	Color Color Color						
Input 3 (Input 3)	Inputs						
Input 4 (Fire TV Stick)	1) Input 1	2) Input 2	3) Input 3	4) Fire TV Stick			
Input 5 (Input 5)	5) Input 5	6) UBP X500	7) Input 7	8) Input 8			
Input 6 (UBP X500)	5) input 5	0/00/ 700	/ input /	of input o			
Input 7 (Input 7)							
Input 8 (Input 8)	Outputs						
	1) Output 1	2) SONY TV	3) Output 3	4) Output 4			
Outputs	E) Outward E	() Contend 6	7) Outwet 7	0) Outwart 0			
Output 1 (Output 1)	5) Output 5	6) Output 6	7) Output 7	8) Output 8			
Output 2 (SONY TV)	9) Output 9	10) Output 10					
Output 3 (Output 3)							



On the left hand side, a navigation bar features more options:

- Port Details allows you to individually monitor all inputs and outputs.
- Health displays information about the system's health plus a visual history of the system's temperature over the previous month.
- Updates display the current software version and detail any updates available for the system. There is also a toggle switch to turn on 'Hotfix Updates' whereby updates are delivered automatically to the system.
- Installation Report displays all crucial information about the installation on one page. We recommend you print this page once the installation is complete to ensure the installation is correct.

Cloud Monitorin	g Service			PULSE EIGHT
Account -	My Installs My Products D	ocumentation & Drivers - Web Shop	i l	
(0000) ADMINISTRATO Home > My Products > P85N11557				
CONFIGURATION		INSTALLATION	NREPORT	
OVERVIEW	SYSTEM HEALTH			
PORT DETAILS	Status: Healthy Model:	Inputs: All Present & Healthy Firmware Version:		uts: esent & Healthy nt Uptime:
Input 1 (Input 1)	neo:X	3.2.20		days, 16 hours, 48 minutes
Input 2 (Input 2)	庙 Temperature, Day Tre	nd		
Input 3 (Input 3)	Temperature, Day ne	nu		
Input 4 (Fire TV Stick)		^		· · · · · · · · ·
Input 5 (Input 5)			¥ .	
Input 6 (UBP X500)	begrees Celdius			
Input 7 (Input 7)	10 H			
Input 8 (Input 8)	8			
Outputs	11 6 8 10 11 1		о <u>1</u> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 4 1 6 7
Output 1 (Output 1)				
Output 2 (SONY TV)	INPUTS		OUTPUTS	
Output 3 (Output 3)				
Output 4 (Output 4)	Input Name	Signal Received	Output Name	Manufacturer

Documentation & Drivers

Under the Documentation and Drivers tab you will find links to the latest third party control drivers, manuals and troubleshooting guides alongside API information.

Accou Dashboard Accou DRIVERS Bitwise Elan Control 4 RT Crestron Savant Crestron Home URC	nt - My Installs My Products DOWNLOADS Discovery Tool	Documentation & Drivers Well	b Shop API Overview CEC EDID	Network Port
Bitwise Elan Control 4 RTI Crestron Savant		Visit our	Overview CEC EDID	Port
Control 4 RTI Crestron Savant	Discovery Tool		CEC EDID	Port
			IR Monitoring	System Misc
y Laura Parr / 08 June 2022 his firmware is available for the co:X+ co:X	e following products:			

Please be aware updating to this firmware will override your existing audio settings and you will need to set these up in gotomymatrix.com again once the update has been

applied.



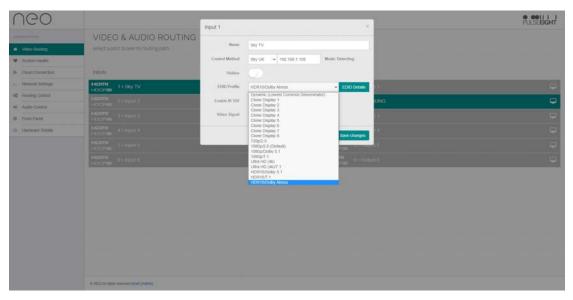
EDID MANAGEMENT

For your home entertainment to work with each other, Extended Display Identification Data or EDID is required by the source (e.g. media box, game console, etc) to identify what is the capability of the output screen. You may need to perform a "EDID handshake" when changing EDID profiles for it to work properly.

The neo video matrix contains EDID presets to ease the setup configuration - please refer to the "Video Routing (Admin)" in the Web Interface Setup section of this manual.

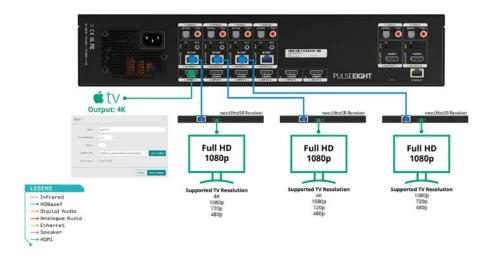
Types of EDID Profile available:

- Dynamic (Lowest Common Denominator): It will set the EDID to only support the resolutions supported by all the displays connected to the outputs.
- Clone Display: Copies the same EDID as the Sink (TV or AVR) attached to the selected output. This setting is recommended when connecting an AVR to the output as it ensures the AVR's audio capabilities are reflected on the input EDID.
- HDR/UltraHD(4K)/1080p/720p: It sets the EDID to support 4K HDR/4K/1080p/720p as the maximum resolution supported, as well as some audio support.



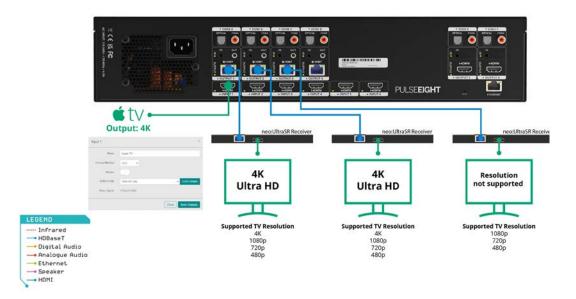
The matrix does not support individual video downscaling. If there is a mixture of displays with different resolution capabilities, then it is important to select the correct EDID profile and/or use an external downscaler.

In this scenario, if Dynamic setting is selected, then the HDMI[®] Input 1 will limit the resolution of the source to a maximum of 1080p. This means all displays will receive a 1080p video signal.

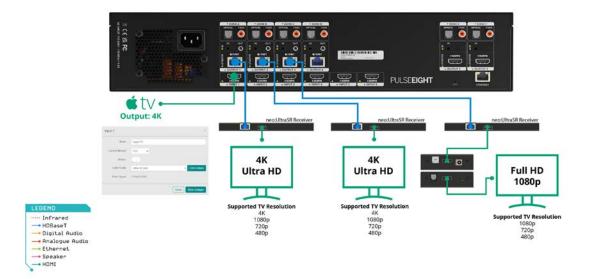




In the same scenario, selecting 4K as the EDID profile will set the resolution to a maximum of 4K that is then distributed to all connected displays. Any legacy display (supporting up to 1080p only), will likely display an error or no picture.



When this occurs, it is possible to use a separate 4K Downscaler (e.g. P8-HDMI2-SP2-DS) which ensures that all displays receive the maximum resolution possible.





IR BLASTING

This feature is only available with Control4.

The Pulse-Eight neo:XSR has the unique IP-to-IR logic inside, allowing it to output infrared commands (IR blasting) in a Control4 installation without the need for a cable between the EA controller and the matrix. There is no requirement for an IR optocable or complicated setup.

As long as the EA controller and the matrix are on the same network, then the driver can easily be configured to control and manage the video sources and displays flawlessly from your Control4 system through the neo:XSR matrix.

For more information, please refer to the neo:XSR driver and its documentation.

LINKED DEVICE



Any neo:XSR product can easily be linked with the Pulse-Eight ProAmp8, as part of the Linked Devices option. See Output Setup Options of the Web Management section.

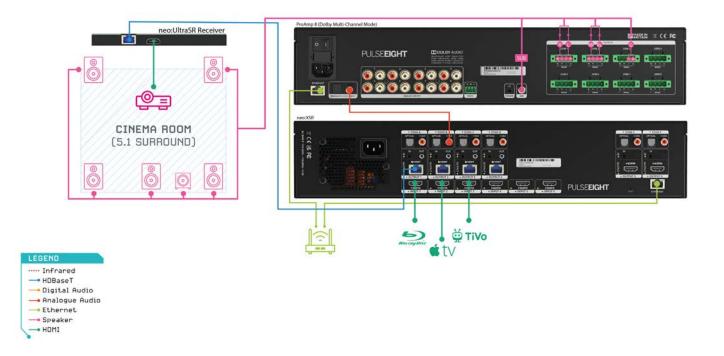
This feature offers the ability to control the volume via the neo:XSR (through CEC) instead of going through the ProAmp8 web UI interface.

Make sure both neo:XSR and the ProAmp8 are connected to the local network as the system needs to detect each other to make the linking possible.



Connecting Linked Device

1. Here is the mapping and wiring diagram of an example setup.



2. To use the Linked Device feature, make sure to connect to the correct output. Here is an example of the setup: a S/PDIF connector is connected via Input 9 (on the ProAmp8) and Output 2 (on the neo:XSR).

NGO			PULSEEIGHT
KOMMETING CON Video Routing	VIDEO & AUDIO ROUTING select a port to see its routing path		
🖤 System Health			
R Cloud Connection	Inputs	Outputs	
>_ Network Settings	HOTHI 1> Sky TV	entrer 1) Output 1	ί. -
0¢ Routing Control	Hoomaa 2> Input 2 -	CHORTURE 2> SAMSUNG	
49 Audio Control			
Front Panel	HCIONARIA 3 > Input 3		-
G Hardware Details	HCCP98 43 Input 4		
	Hacima 5 x legal 5	HOMM 5> Output 5	0 0 0
	HCOPIE 6 > toput 6	HCami HCami 6) Output 6	•
	A227.04 rights reserved (June) (June)		



3. Next, on the neo:XSR web UI, go to Video Routing and under the Output section, click on the icon.

000					e eelt i i Puisfeight
1100		Output 2		*	1. (Alteriowerse) (1.
Concernation of the second	VIDEO & AUDIO ROUTIN				
 Video Routing 	select a port to see its routing path	Name	SAMSUNG		
Tystem Heath		Video From	Sky TV		
Is Cloud Connector	Ingland				
+_ Network Settings	HOMI 15 Sky TV	Mirrot	Nothing		ę
AC Renderg Control		EDID	EDID O	retails.	
48 Audio Controli					Ψ
· Pront Panel		Hidden	Source Fit	termy	
Ge Hardware Details		Enable IR 12V			
		Link Status	HDBaseT (Active) Remote Module De	etaðs -	
		O Link Quality	Poor O Cable Length < 20m		
	POONE	Video Signal	2160p HOMI (scrambled)		
		Linked Device	Not Linked Not Linkes Not Linkes		
		1	PROAMP8 PIISN1190983	index.	
		1			
	© 2023 All rights second (Dated (Admin)				

4. Once the Output window is up, select the ProAmp8 on the Linked Device section and select Input 9 (as reflected as the Input on the ProAmp8).

neo				PULSEEIGHT
	VIDEO & AUDIO ROUTINI	Output 2	,	
et Video Routing	select a port to see its routing path	Name	SAMSUNG	
· Bystem Heath		Video From	Sky TV +	
B Cloud Connection	Inputs	Microe	Nothing	
 Network Skittings 	HOPHI 1>SkyTV			P
6\$ Resulting Contrict	HOME 2 Finple 2 HOOPHIL	EDID	EDID Ortails	• P
Audio Control Pront Paniel	Homi as local a	Hidden	Source Filtering	
G Hardware Details	Hoopian Hoopian Hoopian	Enable IR 12V		
	HOCEPINI HOCEPINI HOCEPINI HOCEPINI Streput 5:	Link Status	HDBatteT (Active) Remote Module Details	0 0 0
	Hami Biligath	O Link Quality	Poor O Cable Length < 20m	φ
		Video Signal	2160p HOMI (scrambled)	
		Linked Device	PROAMP3 PBSN1196983 Not Linke Not Linked Ingol 2 Prod 6 Prod 6 Prod 6 Prod 6 Prod 6 Prod 6 Prod 6 Prod 6 Prod 6 Prod 6	
	C 2023 Ad right inversed Dated (Prime)			



5. To make sure it is working, login into the ProAmp8 web UI (Go to http://gotomymatrix.com/ and choose ProAmp8).

Then click the Configuration tab and click on the icon to check if it is Output 2. Make sure they are connected to the neo:XSR correct output (which is Output 2 in this case).

6. The output volume control should be working over CEC once both sides can see the connection.

in Configuration		Input 9 Name Input 9		PULSEEIGH
Configuration				
P Datey Audio **	puts			
	puts			
System Heath		Connected Device FF645 P8SN1254714 - Output 1 (digital aud	•	
				(
Cloud Connection		Units O	Save changes	
- Mitwork Settings			40 2> Output 2	
Front Parset			Hi 3) Output3	1
Hardware Details	4) Input 4			
-	CER 5 > Input 5			
-	🚛 6) Iroput 6			
-	age- 7 > toput 7			
-	🚛 8 > Input 8			
76				
	store Vetarter On Startsar			



UPDATING MATRIX FIRMWARE

You can update the firmware on your Neo Matrix by logging into Cloud Monitoring. To update your product, go to 'My Products' and find the Video Matrix you want to change. '**Updates**' can be found on the bottom left side.

	Cloud Monitori							PULSE	
	Dashboard Account	My Installs My Products	Docur	nentation & Drivers	Web S	hop			
	Input 4 (Sky)	Inputs							
	Input 5 (C4 Audio)	1) Sky		2) Apple TV		35 Input 3		4) Sky	T.
	Input 6 (Input 6)	1) biek	40	stration is		Si input S	40	4/38/9	40
	Input 7 (Fire TV Stick)	5) C4 Audio	Ð	6) Input 6	T)	7) Fire TV Stick		8) Input 8	D.
	Input 8 (Input 8)	9) Input 9		10) input 10		11) Input 11	æ	12) Input 12	æ.
	Input 9 (Input 9)								
	Input 10 (Input 10)								
	Input 11 (Input 11)	Outputs		20.000		-		0.000	
	Input 12 (Input 12)	1) Minas Tirith	au.	2) Output 2		3) Bathroom		4) Office	
	Outputz	5) Output 5	Ð	6) Output 6	Ð	7) Living Room		8) Output 8	
	Output 1 (Minas Tirith)	9) Output 9	di te	10) Output 10	ø				
	Output 2 (Output 2)	1,000,000							
	Output 3 (Bathroom)	EXTERNAL NETWO				0/07514 0014			
	Output 4 (Office)	EXTERNAL NETWO	JRK DE	TAILS		SYSTEM COM	MANUS		
	Output 5 (Output 5)	IP Address		3.135.77.174		Expected Next Pho	ne Home: 3	21/10/2022 09:46:55	
	Output 6 (Output 6)	Constant of the second s				in 0 days, 1 hours, 5	8 minutes,	27 seconds	
1	Output 7 (Living Room)	LOCAL NETWORK	CONFI	GURATION		100 M			10.00
	Output 8 (Output 8)	No. of Concession, Name	100			Reboot		Reboot	unit
	Output 9 (Output 9)	IP Address	-	92.168.1.203 (Static)					
	Output 10 (Output 10)	Subnet Mask		92.168.1.1					
	HEALTH	Primary DNS		92.168.1.1					
	UPDATES	Secondary DNS	1	18.0.0					
	MANAGEMENT	MAC Addresss		0:15:82-11:8D:AA					
	PDU								
	CERTIFICATION								
	INSTALLATION REPORT								

Click here to see what firmware the unit is currently running (circled in orange), as well as a drop down menu with a list of available firmware for this model. To change the firmware, simply select the firmware you want the matrix to use from the dropdown menu. When the unit calls home again (every hour), it will download and install the firmware. Please keep in mind that the unit will reboot during the updating process.

Cloud Monitorin	g Service		PULSE EIGHT
🚔 Dashboard Account -	My Installs My Products Docu	mentation & Drivers - Web Shop	
(2317) P8RND			
CONFIGURATION	SOFTWARE		
OVERVIEW	Current Firmware Version: 3.10,5		
PORT DETAILS	UPDATES		
inputs			
Input 1 (Dead port)	Major Software Rele	ases	
Input 2 (Apple TV)			er functionality, it is your responsibility to approve the
Input 3 /Input 3/	deployment of new major releases	to your unit as changes may impact third party driv	ers or system integration.
Input 4 (Sky)	Release: 3.10 *		
Input 5 (C4 Audio)	(0.10 ·		
Input 6 (Input 6)	1.		
Input 7 (Fire TV Stick)	Hotfix Updates		
Input 8 (Input 8)	Updates are delivered automatical		
Input 9 (Input 9)	You can read about our update and	release policy for more information.	
Input 10 (Input 10)	Automatic Updates	Update From	Update Until
Input 11 (Input 11)			1.1
Input 12 (Input 12)		Anytime	Anytime
Outputs			
Output 1 (Minas Tirith)			
Output 2 (Output 2)			
Output 3 (Bathroom)			
Output 4 (Office)			
Output 5 (Output 5)			
Output 6 (Output 6)			

IMPORTANT: If your unit is on an older firmware and you are trying to update it we would advice not to jump to the newest update if your current firmware is more than two versions old. Please do not update more than two available versions in one go. Once the newer firmware has been applied you can then progress to the next one. For example: If your firmware is on 3.1, we would advice updating to 3.3, then 3.5 rather than going straight from 3.1 to 3.5 To clarify this is no more than 2 available versions. For example it is safe to update from 3.5 to 3.9 as 3.6-3.8 was not officially released and therefore will not cause any issues to your update.



If you want the update to apply to the unit sooner rather than waiting for the unit to next phone home, you can 'send a monitoring pulse' by logging into gotomymatrix.com and sending the Pulse from the Cloud Connection menu on the left once you have logged into the admin section (If you have not previously accessed this area, please consult your Pulse-Eight installation guide for the password.)

By pressing the 'send monitoring pulse now' button, the unit will immediately phone home and the update will be applied.

NGO		● ●●IIII Pulseeight
ADMINISTRATION	MONITORING	
W Video Routing	keep your system up to date and get notified automatically if a problem occurs	
 System Health 	System Status Healthy	
A Cloud Connection		
>. Network Settings	Last Monitoring Pulse Sent Thu Jul 13 2023 09 47 53 (JMT+0000 (Malaysia Time)	
as Routing Control	Installer M	Save Changes
Audio Control		
Front Panel	Send Monitoring Pulse Now	
a Hardware Details.	CLOUD CONNECTION connection to the device cloud	
	Connection Status Connected	
	Alma This system can automatically integrate with Alma Value Services.	
	© 2023 All rights reserved [Deer] [Admin]	

Alternatively you can contact Pulse-Eight support who offer 24 hour support Monday-Friday and they can apply the firmware update for you.

WARNING: While the update is being applied, please DO NOT turn off or reboot your unit or network connection. As part of the process, the unit will reboot itself. If the unit loses power or a network connection during the update, the update may fail or the unit's existing firmware may be lost.



TROUBLESHOOTING

Should you encounter installation difficulties or issues with device communication, the following checklist of common issues and causes should help resolve your issues. If you still continue to experience issues, please contact your local representative for further assistance.

No or Poor Picture Quality

- Connected and powered? Double check that all HDMI[®], Ethernet and power cables are firmly connected to the correct ports and all devices are correctly powered.
- Cable length? Are you approaching the maximum distance of the Cat cable (e.g. 40m) if so, try adjusting the picture resolution/format, or try using an additional extender kit on the HDMI[®] output to go further distance. Cables bundled together may cause cross-talk and further degrade signal quality.
- Signal strength? The use of cable joins, stranded patch panels, wall outlands and stranded patch leads as interconnects between them can significantly reduce signal strength. Use solid core straight through connections wherever possible.
- If you reduce the resolution of the source (e.g. from 4K to 1080p), do you get a picture? If so, this suggests a conflicting resolution between source and display or a bandwidth capacity issue with your cable. Check all inputs and outputs share the same resolution capabilities.
- Picture 'snow' / HD 'noise' signifies a failure to fully establish a signal and can often be caused by poorly terminated RJ45 connectors or excess cable lengths. Ensure your cable is correctly wired to 568B standards.
- Pink or off-colour picture? This could be caused by an invalid EDID or the source device failing to read the EDID from the matrix. Try re-booting matrix and all source devices to force the re-reading of the EDID.
- Cable quality and condition HDMI[®] cable/connectors can easily be damaged and the quality of material can vary. Always use good quality leads and cables and try swapping cables that are known to be working into the solution to see if this improves your image.

EDID Handshake

There may be times you will need to perform an EDID Handshake on your Matrix. This is often after a new piece of equipment has been introduced to your setup or any changes have occurred. To do an EDID Handshake:

- 1. Turn off the Matrix and all Sources
- 2. Turn on all TVs, and make sure these are not set to standby
- 3. Wait 45 seconds
- 4. Power on Matrix and wait for x3 Green Lights on the front panel
- 5. Wait a further 45 seconds
- 6. Turn on all sources

No Sound on Speaker

Make sure that you are setting the matrix to Sink or Source mode and that the wiring is correct.

For a Linked Device (ProAmp8), check the following:

- 1. When you first install the matrix, the unit is in Sink mode passive. You need to change it to 'active' to get control of volume.
- 2. Make sure the port is linked to the correct one (please see step 5 in the Linked Device section).
- 3. Toggle the ARC settings between HDMI[®], Optical & Disabled (please see step 6 in the Linked Device section).

Note: This occurs only when using S/PDIF & Digital Coax outputs.



Infrared Not Functioning

- 1. Make sure to use the compatible IR flasher/receiver for this video matrix.
- 2. Check and see if the LED beside the IR port is lighting up. It signifies whether the IR connection is working.
- 3. If the IR bud is not receiving or transmitting, test it out with a different port or swap with another IR bud to deduce the problem

INote: Do not mix and match 12V or 5V to different video matrixes as they could cause irreparable damage.

IR Control

- Are the IR emitters and receivers correctly positioned to allow infrared signals to be transmitted and received? Emitters should be fixed firmly over infrared sensors of sources. Receivers should be attached or next to displays ensuring a clear line of sight to the remote control used to operate. Each IR port has an LED, when correctly installed the LED will flash red/green when IR is transmitting or receiving.
- Is your remote control powered and sending a signal? As IR is invisible to the naked eye, a good trick to check whether your remote is transmitting a signal is by viewing the remote handset sensor through a digital camera/ camera phone. The sensor should flash when a button on the handset is held down and this is not supported by all phone cameras.
- IR signal dropout can be experienced due to exterior emissions of infrared radiation. Ensure emitters and receivers are away from direct sunlight. Halogen lighting and plasma screens may also interfere with IR signals.

Can't See Other Unit When Going to Link The Devices

- 1. Make sure both neo:X+ and the ProAmp8 are connected to the local network. The system needs to detect each other to make the linking possible.
- 2. If both units are on the latest firmware and it's still not visible, please try the following:
 - a hard refresh (CTRL + R or CTRL F5)
 - run on another web browser
 - Or, clear the cache for your web browser.

Linked Device Option Is Not Available or Visible

Update both ProAmp8 & neo:XSR to the latest firmware and perform a power cycle (reboot both).



Back Panel LED Values

There are several debug LEDs next to the input and output ports that can help with any further troubleshooting.



A IR:

OFF - No IR. GREEN (Flashing) - IR signal present, either Receiver (in) or Flasher (out). RED - IR signal present on emitter port (OUT).

B HDBT RJ45 Left:

OFF - No HDBT Link. AMBER - HDBT Link established.

HDBT RJ45 Right:

OFF - No Video GREEN (Blink) - Video Present (No HDCP). GREEN (Solid) - Video Present (HDCP).

G HDBT Output:

OFF - No HDBT RX connected. GREEN - HDBT RX connected / PoH enabled.

D HDMI[®] Input:

OFF - No Signal. GREEN - HDMI[®] +5V and Signal.

B HDMI[®] Output:

OFF - No Signal. GREEN - HDMI[®] Hotplug.

🕞 ETH RJ45 Left:

OFF - No ethernet. AMBER (Blinking) - Activity on Network.

ETH RJ45 Right:

OFF - No Ethernet. GREEN - Connected to Network.



SUPPORTED 4K RESOLUTIONS

The neo:XSR has an 18Gbps backplane that allows it to accept and route HDMI[®] 2.0 formats within the matrix.

Below is the list of 4K/UHD resolution formats supported over the HDBaseT 2.0 outputs by using Display Stream Compression (DSC), a highly-advanced compression standard providing true visually-lossless performance with zero latency.

RESOLUTION	FRAME RATE (FPS)	CHROMA	DEEPCOLOUR/ BIT DEPTH	HDR	HDBASET 2.0
			8 Bit	No	Yes
		4:2:0	10 Bit	Yes	Yes
			12 Bit	Yes	Yes
			8 Bit	No	Yes
	24, 35, 30	4:2:2	10 Bit	Yes	Yes - with DSC
			12 Bit	Yes	Yes - with DSC
		4:4:4	8 Bit	No	Yes
			10 Bit	Yes	Yes - with DSC
3840x2160(UHD)			12 Bit	Yes	Yes - with DSC
	50, 60	4:2:0	8 Bit	No	Yes
			10 Bit	Yes	Yes - with DSC
			12 Bit	Yes	Yes - with DSC
		4:2:2	8 Bit	No	Yes - with DSC
			10 Bit	Yes	Yes - with DSC
			12 Bit	Yes	Yes - with DSC
		4:4:4	8 Bit	No	Yes - with DSC

MANUAL VERSION HISTORY

- V1.0 14th September 2023. The first version of the user manual.
- V1.1 9th February 2024. Minor update on the Safety Precaution and Intallation section.



WARRANTY PROCEDURE

The following policies covers all Pulse-Eight products.

Unless otherwise instructed, please do not open any of our products. Doing so will invalidate your warranty. As part of the troubleshooting procedure, you may be instructed to open the device, but you can only proceed with this once consent has been given.

To open a support ticket, please visit: www.pulse-eight.com/support.

Please Note: Warranty cover for ALL products starts from date of receipt of goods NOT date of installation. Should we find that your product does need replacing, we will send your replacement directly to the distributor you purchased from, if not purchased directly from Pulse-Eight.

From 1st April 2022, any products purchased will have new warranty lengths. The length of warranty is determined by the type of product purchased. Our cover can be broken down into 3 categories:

Gold, Silver, and Bronze.

GOLD: Pulse-Eight Audio and Video Matrices

- 5-year warranty as standard
 - 3-year advanced replacements
 - 2-year return to base for repair

SILVER: Pulse-Eight Amps, Extender Sets, and Accessories

- 3-year warranty as standard
 - 1-year advanced replacements
 - 2-year return to base for repair

BRONZE: IR, Cables, Brackets, and our Tech Tools

• 1-year advanced replacements

Pulse-Eight Current Product—Within the advanced replacement warranty year(s)

- 1. Contact support via phone or a support ticket. Pulse-Eight will try to help troubleshoot and resolve the issue remotely.
- 2. If unable to resolve the fault remotely and the unit needs replacing an advanced replacement will be raised with the installer who purchased it. If you purchased from a distributor you will need to return to your distributor and they will contact Pulse-Eight to get the RMA raised. All distributor advanced replacements will be sent to the distributor and cannot be sent directly to their installer.

Pulse-Eight Current Product—Within return to base warranty

- 1. Contact support via phone or a support ticket. Pulse-Eight will try to help troubleshoot and resolve the issue remotely.
- 2. If unable to resolve the fault remotely and the unit needs to be repaired, an RMA will be raised with the installer if purchased direct from Pulse-Eight. Or if purchased from a distributor, the installer will be directed back to their distributor who will raise an RMA.

Pulse-Eight Products Purchased Before 1st April, 2022.

Please visit: Warranty Page. Or Contact support via phone, opening a support ticket or emailing support@pulse-eight.com.



WARRANTY TERMS & CONDITIONS

IMPORTANT INFORMATION ABOUT YOUR RIGHTS AND OBLIGATIONS, AS WELL AS LIMITATIONS AND EXCLUSIONS THAT MAY APPLY TO YOU. YOUR RIGHTS AND THIS LIMITED WARRANTY

This Limited Warranty gives you specific legal rights. You may also have other legal rights that vary by state, province, or jurisdiction. The disclaimers, exclusions, and limitations of liability under this Limited Warranty will not apply to the extent prohibited by applicable law. For a full description of your legal rights, you should refer to the laws applicable in your jurisdiction and you may wish to contact a relevant consumer advisory service.

1. WHAT THIS LIMITED WARRANTY COVERS; PERIOD OF COVERAGE

Pulse-Eight Limited ("Pulse-Eight"), 8-12 Alder Hills, Poole, BH12 4AL, UK, warrants to the owner of the enclosed product that the product contained in this box ("Product") will be free from defects in materials and workmanship for a period of three years from the date of delivery following the original purchase (the "Warranty Period"), or if this product has been professionally installed, the warranty start date is from the date your installer purchased the item, not your system commissioning date. Please check with your installer for their purchase date. If the Product fails to conform to this Limited Warranty during the Warranty Period, Pulse-Eight will, at its sole discretion, either (a) repair or replace any defective Product or component; or (b) accept the return of the Product and refund within 45 days of return the money actually paid by the original purchaser for the Product. Repair or replacement may be made with a new or refurbished product or components, at Pulse-Eight's sole discretion.

If the Product or a component incorporated within it is no longer available, Pulse-Eight may replace the Product with a similar product of similar function, at Pulse-Eight's sole discretion. This is your sole and exclusive remedy for breach of this Limited Warranty. Any Product that has either been repaired or replaced under this Limited Warranty will be covered by the terms of this Limited Warranty for the longer of ninety (90) days from the date of delivery or the remaining Warranty Period. This Limited Warranty is transferable from the original purchaser to subsequent owners, but the Warranty Period will not be extended in duration or expanded in coverage for any such transfer.

2. TOTAL SATISFACTION RETURN POLICY

If you are the original purchaser of the Product and you are not satisfied with this product for any reason, you may return it in its original condition within thirty (30) days of the original purchase and receive a full refund. If this is a professionally installed product, you must check with your installer regarding their own returns policy.

3. WARRANTY CONDITIONS; HOW TO GET SERVICE IF YOU WANT TO CLAIM UNDER THIS LIMITED WARRANTY

Before being able to claim under this Limited Warranty, the owner of the Product must (a) notify Pulse-Eight of the intention to claim by emailing support@pulse-eight.com during the Warranty Period and providing a description of the alleged failure, and (b) comply with Pulse-Eight's return shipping instructions, and (c) ship the Product at owner's cost (except where prohibited by applicable law) to Pulse-Eight for repair or replacement. Pulse-Eight will have no warranty obligations with respect to a returned Product if it determines, in its reasonable discretion after examination of the returned Product that the Product is an Ineligible Product (defined below). Pulse-Eight will bear all costs of return shipping to the owner, except with respect to any Ineligible Product, for which the owner will bear all shipping costs.

4. WHAT THIS LIMITED WARRANTY DOES NOT COVER

This warranty does not cover the following (collectively "Ineligible Products"): Products marked as "sample" or sold "AS IS"; or Products that have been subject to: (a) modifications, alterations, tampering, or improper maintenance or repairs; (b) handling, storage, installation, testing, or use not in accordance with the Installation Guide or other instructions provided by Pulse-Eight; (c) abuse or misuse of the Product; (d) breakdowns, fluctuations, or interruptions in electric power or the telecommunications network; or (e) Acts of God, including lightning, fire, flood, tornado, earthquake, or hurricane. This warranty does not cover consumable parts, including batteries unless damage is due to defects in materials or workmanship of the Product, or software (even if packaged or sold with the product). Pulse-Eight recommends that you use only authorized service providers for maintenance or repair. Unauthorized use of the Product or software can impair the Product's performance and may invalidate this Limited Warranty. Pulse-Eight does not warrant that operation of the Product will be error-free or uninterrupted or that the Product will in every case process all data correctly.



5. DISCLAIMER OF WARRANTIES

Except as stated above in this limited warranty, and to the maximum extent permitted by applicable law, Pulse-Eight disclaims all express, implied, and statutory warranties and conditions with respect to the product, including the implied warranties of merchantability, fitness for a particular purpose. To the maximum extent permitted by applicable law, also limits the duration of any implied warranties or conditions to the duration of this limited warranty.

6. LIMITATION OF DAMAGES

In addition to the above warranty disclaimers, in no event will Pulse-Eight be liable for any consequential, incidental, exemplary, or special damages, including any damages for lost data or lost profits, arising from or relating to this limited warranty or the product, and Pulse-Eight's total cumulative liability arising from or related to this limited warranty or the product will not exceed the amount actually paid for the product by the original purchaser.

7. LIMITATION OF LIABILITY

Pulse-Eight disclaims all liability of any kind of Pulse-Eight's suppliers. The Pulse-Eight online services ("services") may provide you with information ("product information") regarding your product's performance and/or peripherals connected to your product ("product peripherals"). The type of product peripherals that may be connected to your product may change from time to time. Without limiting the generality of the disclaimers above, all product information is provided for your convenience, "as is", and "as available". Pulse-eight does not represent, warrant, or guarantee that product information will be available, accurate, or reliable. You use all product information, the services, and the product at your own discretion and at risk. You will be solely responsible for (and Pulse-Eight disclaims) any and all loss, liability, or damages, including to your HVAC system, plumbing, home, product, product peripherals, computer, mobile device, and all other items and pets in your home, resulting from your use of the product information, services, or product. The product information provided by the services is not intended as a substitute for direct means of obtaining the information.

8. VARIATIONS THAT MIGHT APPLY TO THIS LIMITED WARRANTY

Some jurisdictions do not allow limitations on how long an implied warranty lasts or exclusions/limitations on incidental or consequential damages, so some of the limitations set out above may not apply to you.

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