

Contents

04	OneIP Video Over IP Solution
08	18Gbps Video Matrices
12	Video Matrices
17	Video Matrix Comparison
18	ProAudio Audio Matrices
24	ProAmp Power Amplifier
26	HDMI Extender Sets
28	HDMI Splitters

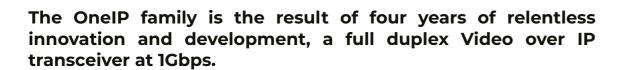
Audio Accessories

DnelP

VIDEO OVER IP

CUTTING EDGE AV OVER IP TECHNOLOGY





With our OneIP Transceiver, you get a true dual functionality device. Unlike other transceivers on the market, OneIP can receive and transmit HDMI® sources at the same time, whilst still utilising a more cost effective, simpler to install, 1GbE infrastructure. For more dedicated locations, our Transmitter or Receiver only device can allow you to design your system, your way.

Realise the full capabilities of your devices with full HDMI 2.0 support. Enjoy pristine 4K@60Hz 4:4:4 video, ensuring every detail is displayed with breath-taking clarity whilst maximising interoperability across devices with built-in video scaling for seamless integration with any display.



18GBPS HDMI® 2.0



IGBE NETWORKING



FULL DUPLEX TRANSCEIVER



5 YEAR WARRANTY



VIDEO OVER IP









INPUT



1 HDMI® OUTPUT



AUDIO BREAKOUT

MONITORING

$\bigcirc \bigcirc \bigcirc$

AV OVER IP TRANSCEIVER P8-ONEIP-1G-4K-TZ

Our full-duplex transceiver enables both transmit and receive functions simultaneously creating full flexibilty and future-prrofing. Utilizing a cost-effective 1Gb managed ethernet network, extend your video content across your entire project, no matter the distance over low cost category 5e cable.

KEY FEATURES

- Full duplex transceiver
- HDMI 2.0 18Gbps
- 1Gb managed ethernet network
- Supports 10 & 12-bit HDR sources
- Optical audio breakout
- PoE+ and Ethernet pass-through
- Source video scaling (up or down)
- Third Party Control
- 5 year warranty





PoE+















5 YEAR

MONITORING

KEY FEATURES

- HDMI 2.0 18Gbps
- 1Gb managed ethernet network
- Supports 10 & 12-bit HDR sources
- PoE+
- Bi-directional IR control
- Source video scaling (up or down)

AV OVER IP TRANSMITTER

P8-ONEIP-1G-4K-TX

The OneIP Transmitter is the perfect pairing for the OneIP Receiver or Transceiver when there is no local output required. As with the full OneIP range, the transmitter can be used on a 1Gb managed ethernet network for seamless integration.

- Third Party Control
- 5 year warranty





OUTPUT



HDMI® 2.0







AV OVER IP RECEIVER

P8-ONEIP-1G-4K-RX

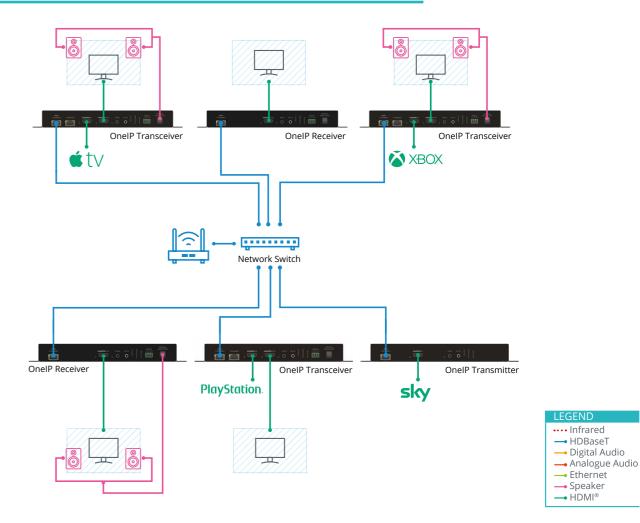
Our standalone AV over IP Receiver is the perfect partner for the OneIP Transmitter and Transceiver for when there is no local input requirement.

KEY FEATURES

- HDMI 2.0 18Gbps
- 1Gb managed ethernet network
- Supports 10 & 12-bit HDR sources
- PoE+
- Bi-directional IR control
- Source video scaling (up or down)
- Third Party Control
- 5 year warranty

ONEIP

CONCEPT WIRING GUIDE



HDBaseT

18Gbps MATRIX SOLUTIONS



DESIGNED TO
MEET ALL YOUR
VIDEO AND
AUDIO NEEDS

The neo:X+ and neo:XSR represent the flagship of Pulse-Eight video distribution products. Each matrix supports 18Gbps HDMI® 2.0 resolutions up to and including 4K@60Hz 4:4:4 and we use HDBaseT's officially supported DSC technology to achieve remarkable picture quality and interoperability.

Support for Dolby audio downmixing and ARC (audio return channel), amongst a host of other audio manipulation features. It all comes together to make the neo:X range a truly flexible and powerful partner in AV projects.





4K@60HZ 4:4:4



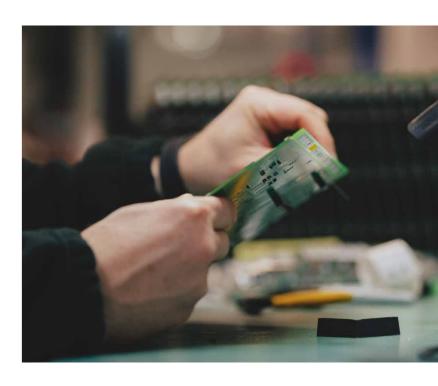
HDBaseT DIAGNOSTICS



CLOUD MONITORING



5 YEAR WARRANTY



HDBaseT

4K MATRIX SOLUTIONS









2 HDMI®

OUTPUTS





OUT ZONES



EXTEND 4K **UP TO 100M**

neo

8X10 VIDEO & AUDIO MATRIX P8-HDBT2-U-FFMJ1210

Our 18Gbps, 4K@60Hz 4:4:4, 8x10 Video Matrix with a full, integrated audio matrix.

The neo:X+ goes the distance, extend video up to 100 meters (330 feet). With audio breakout, Dolby Digital compliance and multiple video control methods.

KEY FEATURES

- Supports 4K@60Hz 4:4:4 video
- Extend full 4K up to 100m
- Full, integrated audio matrix control
- HDBaseT diagnostics built-in
- CEC, IR or Web Remote Control
- Cloud monitoring

- ARC (audio return channel)

6X6 VIDEO & AUDIO MATRIX

The neo:XSR Video & Audio Matrix has it

all - with multiple video inputs and both

HDMI® inputs, 4 HDBaseT outputs and 2

HDMI® outputs alongside 6 audio output zones (with the options of Optical and

video and audio outputs. Featuring 6

- DSC visually lossless compression
- 5 Year warranty

P8-HDBT2-L-FFMJ66

Digital Coax).





KEY FEATURES













EXTEND 4K UP TO 100M





- Supports 4K@60Hz 4:4:4 video

- Extend full 4K up to 100m

- 6 source audio breakouts













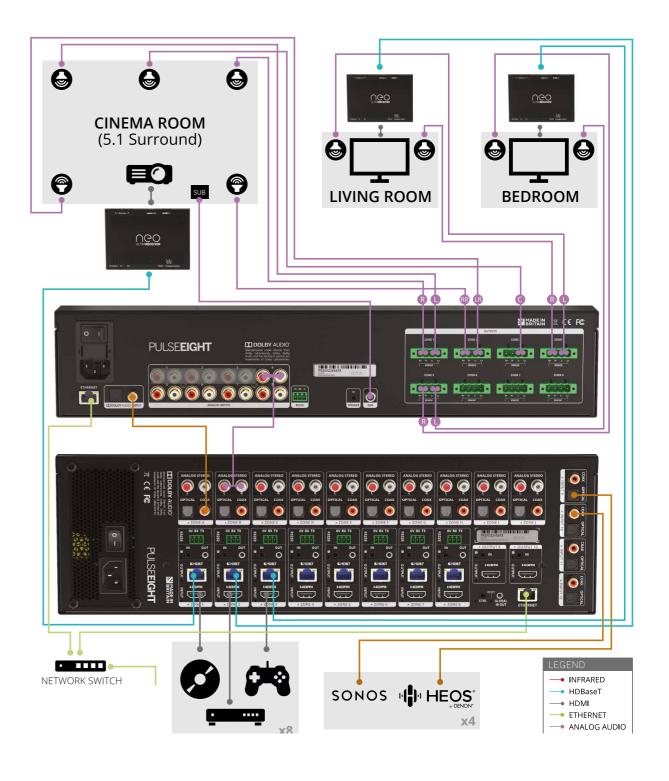
- CEC, IR or Web Remote Control
- Cloud monitoring

- ARC (audio return channel)

- DSC visually lossless compression
- 5 Year warranty

NEO:X+ 4K VIDEO MATRIX & PROAMP8

CONCEPT WIRING GUIDE





DRIVERS AVAILABLE FOR: REI CRESTRON HOME Control (4) SAVANT

H D B a s e T

MATRIX SOLUTIONS



SIMPLE YET
SOPHISTICATED
VIDEO MATRIX
SOLUTIONS

The award winning neo HDBaseT matrix range is the perfect blend of simplicity and sophistication, created by our passionate in-house engineering and production team for the sole purpose of seamlessly distributing video.

Designed with a core set of features to cover the majority of projects, the neo range represents unprecedented value. We recognise what's important to integrators, therefore we made sure our HDBaseT diagnostics and cloud monitoring are still included as standard.

12





4K@60HZ 4:2:0



HDBaseT DIAGNOSTICS



CLOUD MONITORING



5 YEAR WARRANTY



MATRIX SOLUTIONS





INPUTS



OUTPUTS





BREAKOUTS









EXTEND 4K UP TO 40M

KEY FEATURES

- Supports 4K@60Hz 4:2:0 video
- Extend 4K up to 40m
- Extend 1080p up to 70m
- Source Audio Breakouts
- HDBaseT diagnostics built-in
- CEC, IR or Web Remote Control

neo:

8X10 VIDEO MATRIX

P8-HDBT-L-FFMN810A

The neo:8a is our flagship 4K 4:2:0 fixed format 8x10 HDBaseT matrix with added audio breakout.

The neo:8a can extend 4K up to 40 metres and 1080p up to 70 metres.

- Cloud monitoring
- 5 Year warranty











BREAKOUTS





EXTEND 1080P UP TO 70M

- Source Audio Breakouts

- HDBaseT diagnostics built-in

- CEC, IR or Web Remote Control

EXTEND 4K UP TO 40M

KEY FEATURES

- Supports 4K@60Hz 4:2:0 video
- Extend 4K up to 40m
- Extend 1080p up to 70m

UGO:

6X8 VIDEO MATRIX P8-HDBT-L-FFMN68A

The neo:6a is our 6x8 matrix supporting 4K 4:2:0 with added HDMI audio breakout

The neo:6a can extend 4K up to 40 metres and 1080p up to 70 metres.

- Cloud monitoring
- 5 Year warranty





4 HDMI®

INPUTS

KEY FEATURES

- Extend 4K up to 40m

- Extend 1080p up to 70m





2 HDMI®

OUTPUTS





- Mirror HDMI outputs

- HDBaseT diagnostics built-in

- CEC, IR or Web Remote Control

EXTEND 1080P

UP TO 70M



EXTEND 4K UP TO 40M



4X4 VIDEO MATRIX

P8-HDBT-L-FFMS44-22

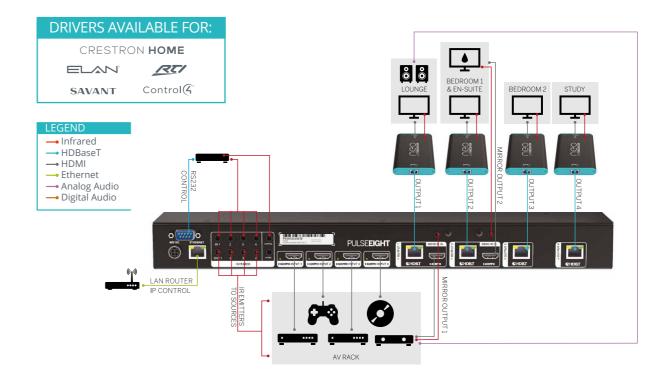
The neo:4 is our 4x4 HDBaseT matrix with additional 2 mirrored HDMI ports.

- Cloud monitoring
- 5 Year warranty

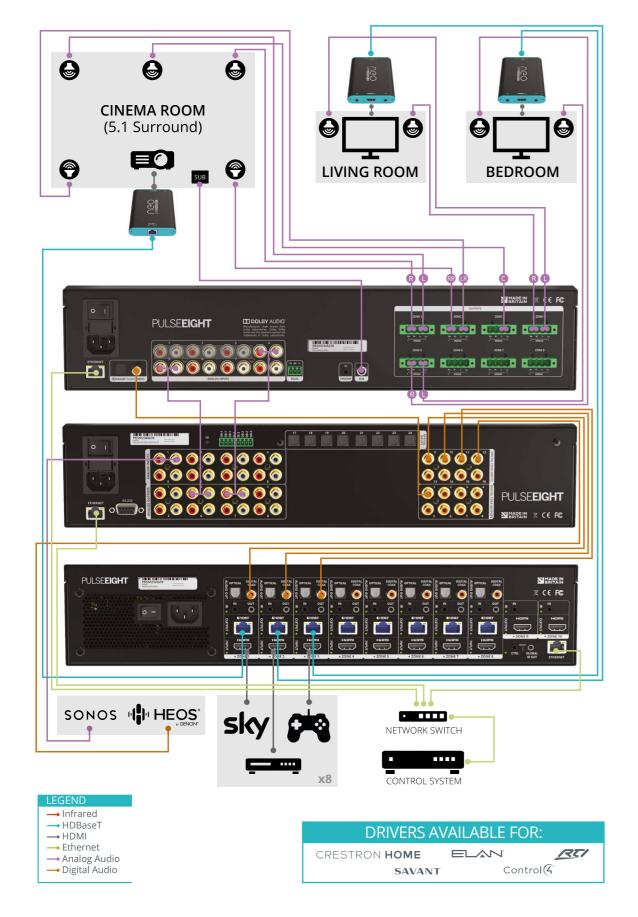
NEO:4 VIDEO MATRIX

- Supports 4K@60Hz 4:2:0 video

CONCEPT WIRING GUIDE



CONCEPT WIRING GUIDE

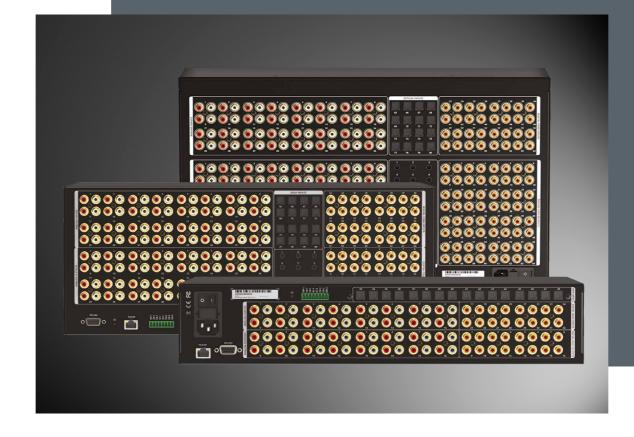


COMPARISON CHART

Product		neoX+	neo:XSR	neo:8a	neo:6a	neo:4		
SKU		P8-HDBT2-U-FFMJ1210	P8-HDBT2-U-FFMJ66	P8-HDBT-L-FFMN810	P8-HDBT-L-FFMN68	P8-HDBT-L-FFMS44-22		
Port Con	nections							
HDMI Inputs		8	6	8	6	4		
Audio Inp	outs	4	-	-	-	-		
HDBaseT Outputs		8	4	8	6	4		
HDMI Outputs		2	2	2	2	2 (mirrored)		
Audio Outputs		10	6	8	6	-		
Video Resolutions		*D	enotes products that use	e Display Stream Compre	ession (DSC) to compress	4K@60Hz 4:4:4 signals		
4K@60Hz 4:4:4		•*	•*					
4K@60Hz 4:2:2		•*	•*					
4K@60Hz 4:2:0		•	•	•	•	•		
4K/HDR 10@60Hz		•*	•*					
4K/HDR 10@24Hz		•	•	•	•	•		
1080p		•	•	•	•	•		
720p		•	•	•	•	•		
HDBaseT	Video Distances							
4K	100 metres	•						
46	40 metres	•	•	•	•	•		
1090p	100 metres	•						
1080p	70 metres	•	•	•	•	•		
Features								
Ethernet Pass-through		10/100	-	-	-	-		
IR Control		Bi-directional	Bi-directional	Bi-directional	Bi-directional	Bi-directional		
HDMI-CEC Control		Yes	Yes	Yes	Yes	Yes		
Web Interface		Yes	Yes	Yes	Yes	Yes		
Cloud Monitoring		Yes	Yes	Yes	Yes	Yes		
Automatic EDID		Yes	Yes	Yes	Yes	Yes		
Third Party Control		Yes	Yes	Yes	Yes	Yes		
HDMI ARC (Audio Return Channel)		Yes	Yes	-	-	-		
PoH (Power over HDBaseT)		Yes	Yes	Yes	Yes	Yes		
Maximum Pixel Clock		600Mhz	600Mhz	340Mhz	340Mhz	340Mhz		
Maximum Bandwidth		18Gbps	18Gbps	10.2Gbps	10.2Gbps	10.2Gbps		
Max Power Consumption				2Amps @ 240V				
Power Rating		100-240V 4.0/2.0A 50/60Hz						
Product \	Weight & Dimensio	ns						
Product Weight		4.83kg	3.9kg	3.78kg	3.78kg	1.15kg		
Height		13cm (3U)	8.9cm (2U)	9cm (2U)	9cm (2U)	4.3cm (1U)		
Width		44cm	44cm	44cm	44cm	44cm		
Depth		32cm	32cm	30.5cm	30.5cm	14cm		

DSP AUDIO MATRIX SOLUTIONS







Packed with features such as lip sync delay, 5 band DSP per zone, adjustable gain, zone locking, automatic audio conversion and third party control, our ProAudio range is unrivalled.

ProAudio has been designed for the custom install AV market, in many cases the need for an audio receiver can be eliminated by using the audio features of the ProAudio Series.



FULL DSP



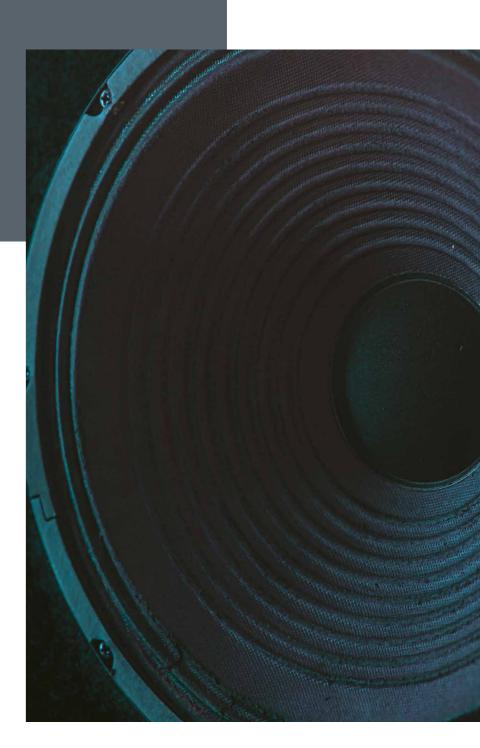
LIP SYNC CONTROL



THIRD PARTY
CONTROL



5 YEAR WARRANTY



DSP AUDIO MATRIX



Pro**Audio**3264

DSP AUDIO MATRIX P8-PROAUDIO3264



80 AUDIO

INPUTS





64 AUDIO OUTPUTS

24 12V TRIGGERS

KEY FEATURES

- 32 Stereo L/R Inputs
- 32 Digital Coax Inputs
- 16 Optical Inputs

- 64 Stereo L/R Outputs
- 64 Digital Coax Outputs
- 24 12V Triggers

- 1 Ethernet
- 1 RS232 Serial
- 5 Year warranty



Pro**Audio**3248

DSP AUDIO MATRIX P8-PROAUDIO3248







INPUTS

OUTPUTS

18 12V TRIGGERS

KEY FEATURES

- 32 Stereo L/R Inputs
- 32 Digital Coax Inputs
- 16 Optical Inputs

- 48 Stereo L/R Outputs
- 48 Digital Coax Outputs

20

- 18 12V Triggers

- 1 Ethernet
- 1 RS232 Serial
- 5 Year warranty

00000000000000000 00000000 00000000000000000 0000000 00000000 O : PULSEEIGHT

KEY FEATURES

- 32 Stereo I /R Inputs
- 32 Digital Coax Inputs
- 16 Optical Inputs

KEY FEATURES

- 8 Optical Inputs

- 16 Stereo L/R Inputs

- 16 Digital Coax Inputs

- 32 Stereo L/R Outputs

- 32 Stereo L/R Outputs

- 32 Digital Coax Outputs

- 12 12V Triggers

- 32 Digital Coax Outputs
- 12 12V Triggers

Pro**Audio**32

DSP AUDIO MATRIX P8-PROAUDIO32







TRIGGERS

80 AUDIO INPUTS OUTPUTS

- 1 Ethernet
- 1 RS232 Serial
- 5 Year warranty



Pro**Audio**1632

DSP AUDIO MATRIX P8-PROAUDIO1632







40 AUDIO

32 AUDIO

TRIGGERS

- -1 Ethernet
- 1 RS232 Serial
- 5 Year warranty

ProAudio16RS

DSP AUDIO MATRIX P8-PROAUDIO16RS









48 AUDIO INPUTS

32 AUDIO OUTPUTS

8 REMOTE SOURCE INPUTS

KEY FEATURES

- 16 Stereo L/R Inputs
- 16 Digital Coax Inputs
- 8 Optical Inputs
- 32 Stereo L/R Outputs

- 8 CAT5e (Remote Source) Inputs

- 32 Digital Coax Outputs
- 1 Ethernet
- -1 RS232 Serial
- 5 Year warranty

DSP AUDIO MATRIX



- 16 Stereo L/R Outputs

- 16 Digital Coax Outputs

- 1 Ethernet

KEY FEATURES

- 16 Stereo L/R Inputs
- 16 Digital Coax Inputs
- 16 Optical Inputs

Pro**Audio**16

DSP AUDIO MATRIX
P8-PROAUDIO16







48 AUDIO INPUTS

OUTPUTS

THIRD PARTY CONTROL

- 1 RS232 Serial
- 5 Year warranty

KEY FEATURES

- 8 Stereo L/R Inputs
- 8 Digital Coax Inputs
- 8 Optical Inputs

Pro**Audio**8

DSP AUDIO MATRIX P8-PROAUDIO8







24 AUDIO INPUTS

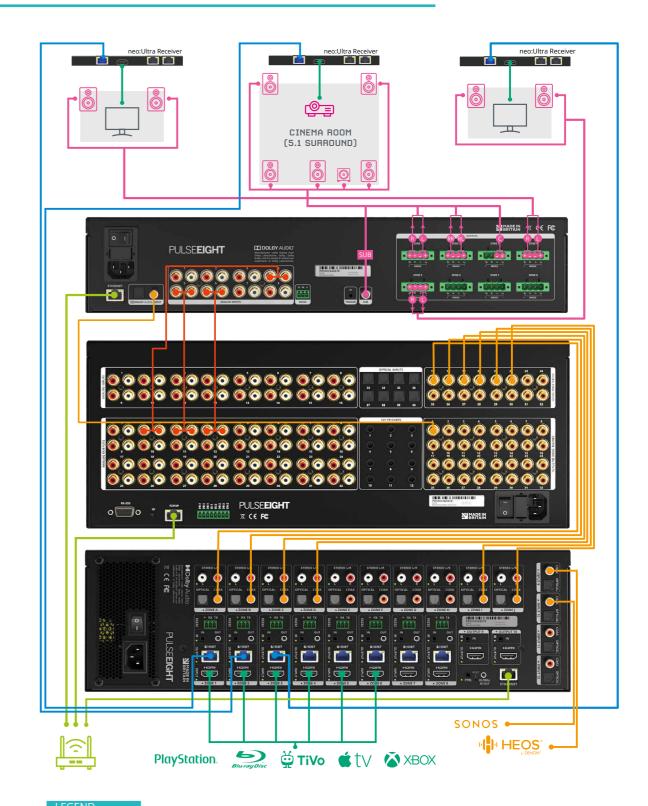
JDIO 8 AL UTS OUT

8 AUDIO THIRD PARTY CONTROL

- 1 RS232 Serial
- 5 Year warranty

PROAMP8, PROAUDIO1632 & NEO:X+ VIDEO MATRIX

CONCEPT WIRING GUIDE



Infrared HDBaseT Digital Audio Analogue Audio Ethernet Speaker

→ HDMI®

DRIVERS AVAILABLE FOR:

© CRESTRON. ELAN' Control

- 8 Stereo L/R Outputs

- 1 Ethernet

- 8 Digital Coax Outputs

PROAMP AMPLIFIER



ALL IN ONE SOLUTION FOR AMPLIFICATION

ProAmp8

P8-PROAMP8

















mplifier that offers a

Pulse-Eight's ProAmp8 is a powerful and versatile 8-Zone Power Amplifier that offers a wide range of features, such as; full audio DSP and EQ settings, Multi-Zone Mode and Dolby Digital Surround Sound Modes. The ProAmp8 is the perfect partner to Pulse-Eight's ProAudio range and our latest neo:X matrices.

KEY FEATURES

- 100 watts per channel
- 8 Stereo (L/R) analogue inputs
- 1 digital input with Dolby support
- 8 Stereo phoenix connector outputs
- Bridgeable output zones

- Full Dolby Zone DSP and Equaliser (EQ) control
- Fault detection and system reset
- Low-energy consumption
- "Automatic sensing" and 12V Trigger options
- User-friendly WebUI control

HDMI® EXTENDERS

HDMI EXTENSION WITH A **DIFFERENCE**



Our neo range of HDMI® over HDBaseT™ extenders offer the very best in performance and flexibility.

With the aim to keep our HDMI® extension solutions simple, instead of hundreds of variants, we've created simple tiers, each more capable than the last. Features include bi-directional IR, PoH, DSC, CEC, RS232 and ARC, depending on model.



∩eo:lite³

HDMI® EXTENDER SET P8-HDBT3-L-EXSET









RECEIVE

EXTEND 4K UP TO 40M

EXTEND 1080P UP TO 40M

18GBPS

TRANSMIT OR

KEY FEATURES

- Switch between Receiver and Transmitter Mode
- Completely Uncompressed
- Supports 4K@60Hz 4:4:4
- Extend 4K and 1080p up to 40m
- Wall Mountable

- Bi-Directional Infra-Red
- RS232 Phoenix Port
- HDCP 2.2 Compliant



neo:Ultra

HDMI® EXTENDER SET



P8-HDBT2-U-EXSET



UP TO 100M







KEY FEATURES

- Supports 4K@60Hz 4:4:4
- Extend 4K and 1080p up to 100m
- Ultra thin 13mm depth enclosure
- Wall Mountable
- ARC (Audio Return Channel)
- Bi-Directional Infra-Red
- Ethernet 10/100 Connection
- Serial RS232 via 3.5mm
- HDCP 2.2 Compliant



neo:Pro

HDMI® EXTENDER SET P8-HDBT2-P-EXSET









EXTEND 4K UP TO 70M

EXTEND 1080P HDMI® AUDIO UP TO 100M RETURN

4K@60HZ

KEY FEATURES

KEY FEATURES

- Extend 4K to 40m

- Supports 4K@60Hz 4:2:0

- Supports 4K@60Hz 4:2:0
- Extend 4K to 70m and 1080p to 100m
- Ultra thin 13mm depth enclosure
- Wall Mountable

- Wall Mountable

- Low Power

- ARC (Audio Return Channel)
- Bi-Directional Infra-Red
- Ethernet 10/100 Connection
- Serial RS232 via 3.5mm
- HDCP 2.2 Compliant



∩eo:lite

HDMI® EXTENDER SET P8-HDBT-L-EXSET









EXTEND 4K UP TO 40M

EXTEND 1080P UP TO 70M

4K@60HZ 4:2:0

- HDCP Compliant

- PoH Receiver

- Extend 1080p to 70m - Bi-Directional Infra-Red

HDMI®

SPLITTER SOLUTIONS



PoH AS **STANDARD**



LOW PROFILE



3 YEAR WARRANTY



Discover seamless signal distribution with our neo:1-4 HDMI Splitter and neo:1-4 HDBaseT Splitter, designed for reliability, performance, and flexibility. The HDMI Splitter enables effortless duplication of a single HDMI source to up to four local displays, supporting 4K@60Hz 4:4:4 UHD resolutions.

For longer-distance installations, the HDBaseT Splitter extends HDMI signals over Cat cable up to 100m, delivering uncompressed video, multichannel audio, and control signals with zero latency.

ECER PC MARTEIN



INPUT



OUTPUTS





4:4:4



MONITORING

- Rack mountable

00·

P8-HDMI2-SP4

Monitoring Portal.

1-4 HDMI® SPLITTER

With one HDMI® source, you can easily distribute to four simultaneous HDMI®

outputs plus access to our exclusive Cloud

- 3 Year warranty

KEY FEATURES

- Supports 4K@60Hz 4:4:4
- Responsive Web Interface

PULSE**EIGHT**

- Cloud monitoring

- Return IR Control
- CEC Control
- Automatic EDID Management













UP TO 40M

CLOUD



1-4 HDBaseT™ SPLITTER

P8-HDBT-L-SP4

Our neo HDBaseT™ splitter can extend 4K up to 40 meters and 1080p up to 70 metres, with CEC control and IR control.

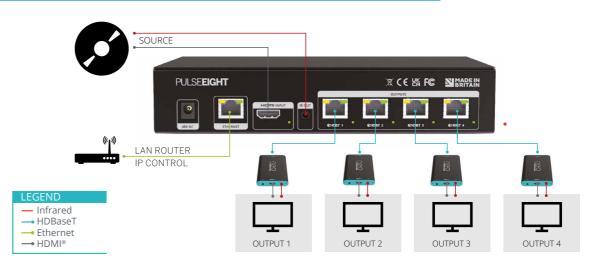
KEY FEATURES

INPUT

- Supports 4K@60Hz 4:2:0
- Extend 4K up to 40m
- Extend 1080p up to 70m
- HDBaseT diagnostics built-in
- Responsive Web Interface
- Cloud monitoring

- PoH (Power over HDBaseT)
- Rack mountable
- 3 Year warranty

CONCEPT WIRING GUIDE



ACCESSORIES

AUDIO SOLUTIONS

AUDIO SOLUTIONS FOR EVERY REQUIREMENT



Modern day installations require innovative solutions and can often push the envelope of what consumer audio and video devices were designed to do. Working closely with installers, we've developed a range of products that provide simple fixes for better integration of complex audio and video distribution systems.

All our accessories come with 3 years warranty and are designed to work seamlessly alongside our matrices and extenders, but also work standalone if required.

DIGITAL AUDIO OVER CAT5E/6 EXTENDER

P8-AE-CAT-EXSET

Digital audio over extreme distances can be tricky in isolation, our audio extender uses a standard CAT cable to seamlessly transmit S/PDIF (Toslink) audio over 200m.





KEY FEATURES

- Extends audio via a single CAT cable
- Supports coaxial or S/PDIF signals
- Stereo and Multichannel digital audio
- 2ch PCM audio inputs
- 5.1 Compressed audio supported
- Extension length up to 200m
- Compact design
- 3 Year warranty

AUDIO DELAY DEVICE

P8-AD340

Delay stereo audio with a simple L/R phono input and output connection. The perfect solution for adjusting lip sync with \sim 20 millisecond increments from its 16-way selector you can delay the audio from 20-340ms.



KEY FEATURES

- The perfect solution to lip sync issues
- 20 millisecond increments
- Delay audio from 20-340ms
- L/R phono input and output connections
- Compact design

- 3 Year warranty

DOLBY® DIGITAL DOWNMIXER DAC (DIGITAL TO ANALOGUE CONVERTER)

P8-DDAC

With our digital to analogue audio converter, audio setups are capable of decoding connected S/PDIF coaxial or TOSLINK optical digital audio sources to standard analogue stereo (L/R) audio.



KEY FEATURES

- Inputs for coaxial and optical
- Analogue stereo (L/R) output
- Decodes connected S/PDIF coaxial or TOSLINK optical digital audio sources
- Compact design
- 3 Year warranty

HDMI® DOWNMIXER DAC (DIGITAL TO ANALOGUE CONVERTER)

P8-HDMIDAC

The HDMI® DAC video scaler and digital to audio converter (DAC) is designed to be placed between a display and a source device. It adjusts resolution and audio from an incoming HDMI source and scales the output to a level compatible with its display capabilities.

PULSEEIGHT HDMIDAC Dolby Digital downmixing with audio breakout Video Downscaler Dolby 5.1 -> 2ch PCM Conversion P4 Dolby Audio Hamir HDMI OUT STEREO OUT DC 5V

KEY FEATURES

- Supports 4K and 1080p
- In line downmix of Dolby Digital to stereo PCM over HDMI®
- 3.5mm audio breakout
- Downscale 4K/30p > 1080/24p

31

- Upscale 1080/24p > 4K/30p,
- Compact design3 Year warranty

210 11 (30p 1000) 2 1p



HEAD OFFICE:

Pulse-Eight Limited 8-12 Alder Hills, Poole, Dorset, BH12 4AL, UK

+44 (0)1202 413610

sales@pulse-eight.com