



2021

PRODUCT
PORTFOLIO

100%
of Pulse-Eight's audio and
video distribution products
are made in our own facility
in Great Britain

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ABOUT PULSE-EIGHT

Located in the UK, Pulse-Eight is a multi-award winning, industry leading developer and manufacturer of Audio/Video (AV) control and distribution solutions for professional installation markets.

MADE IN BRITAIN

Since 2010, Pulse-Eight has embraced a passion for AV product design, while investing significantly to provide a full UK based turnkey design and manufacturing capability. Pulse-Eight has developed significant experience in electronic, mechanical and software engineering, combining to produce 'best in class' solutions through its internalised R&D capability and state-of-the-art 24,000sqft factory, located in Poole, Dorset, UK.

FULLY CERTIFIED

Pulse-Eight is a certified and leading contributor to many major technology platforms, working closely with organisations such as the HDBaseT Alliance. Pulse-Eight were the first organisation in the world to develop and commercialise a fully certified 18Gbps 4K 4:4:4 signal solution over HDBaseT, undoubtedly benchmarking Pulse-Eight as one of the leading developers and manufacturers of high-quality AV transmission devices deployed over structured cabling infrastructures.

WORKING WITH YOU

Pulse-Eight, through greater understanding of its market and customers, has demonstrated the ability to push innovation past the basics of video processing. Already the worldwide market leader in the development of advanced CEC control devices, Pulse-Eight are now leading the way with new embedded technologies which easily substantiate 'best in class' classifications of many products released to the market. The whole organisation embraces superior motivation to provide holistic solutions that provide a better overall experience both for the professional installer and end-user.



neoX+








VIDEO & AUDIO MATRIX



The neo:X+ Video & Audio Matrix has it all - with both audio and video inputs and video and audio outputs. Featuring 8 HDMI inputs, 8 HDBaseT Outputs and 2 HDMI outputs alongside 10 audio output zones (with the options of Stereo L/R, Optical and Digital Coax) and 4 audio Inputs (with the option of Optical and Digital Coax).

The neo:X+ goes the distance, supporting full 4K/60, 4:4:4, 8bit or 4K/60 4:2:2, 12bit up to 100 meters (320 feet) and 1080p up to 150 meters (490 feet). With audio breakout, Dolby Digital compliance and multiple video control methods.

KEY FEATURES:

- 
AUDIO & VIDEO
- 
HDBaseT™ DIAGNOSTICS
- 
FULL 4K 18GBPS
- 
LIP SYNC DELAY
- 
ZONE LOCKING
- 
RECEIVERS INCLUDED
- 
3RD PARTY CONTROL
- 
3 YEAR WARRANTY

THE MASTERS OF AUDIO & VIDEO DISTRIBUTION



GO THE DISTANCE WITH DSC

DSC (Display Stream Compression) enables full 4K video transmission over further distances using HDBaseT, with zero latency or tearing. Implementing this technology, the neo:X+ supports 4K/60, 4:4:4 or 4K/60 4:2:2 up to 100 meters and supports 1080p up to an impressive 150 meters! **1080p 150 meters long range on request (100 meters as standard)*



AUDIO ROUTING CONTROL

With the integrated audio matrix functions, the neo:X+ can handle routing of audio to external speakers within the install. Using smart TV apps? No problem, utilising ARC (Audio Return Channel), the supplied neo:Ultra Receivers can extract the audio and route it through the matrix and out of the audio output zones. There's no need to worry about lip sync issues either as you can set the audio delay function up to a 340ms per zone. Both systems also feature zone locking settings whereby you can lock the routing of the audio to one or more audio outputs no matter what source changes occur.



MAXIMUM FLEXIBILITY

The neo:X+ audio and video matrix supports a variety of control methods, including CEC, IR, Alexa voice control, web interface and set top box IP control. Having these options allows the installer and the end user to agree on what is best for their requirement. The full neo matrix range is also fully compatible with all major control systems including AMX, Crestron, Control 4, ELAN g1, RTI and URC. All CEC features are exposed in the drivers which allows you to create powerful control experiences and ensure full compatibility with home automation products.



EXPANDED WEB INTERFACE

Pulse-Eight's Web Interface's admin area has been created for the sole purpose of tweaking the system's settings to requirement during installation. The neo:X+ has expanded functionalities such as zone locking, lip sync delay and volume control. Within the interface you can also change the audio mode to either 'Source mode' to link to a single source (you can add multiple audio output zones) or 'Sink Mode' to link directly to a video output to route the source's audio instantly.

neoX+

NEO:X+ 8X10 VIDEO & AUDIO MATRIX KIT



- Extend 1080p 150m*
- Extend Full 4K 100m
- Monitor
- 18Gbps 4K
- 10 Audio Out Zones
- 4 Audio Inputs



TECHNICAL SPECIFICATION:

SKU: P8-HDBT2-U-FFMJ1210-KIT
HDMI Inputs: 8
Audio Inputs: 4
HDBaseT Outputs: 8x HDBaseT Class C+DSC (Ultra)
HDMI Outputs: 2
Audio Output Zones: 10
Max HDBaseT Cable Distance 4K: 100 meters
Max HDBaseT Cable Distance 1080p: 150* meters
HDBaseT Recommended Cable: Cat5e or greater
Ethernet Passthrough: Yes - 10/100
Serial Control: Yes - RS-232
IP Control: Yes
IR Control: Bi-Directional
HDMI-CEC Control: Full
Voice Control: Yes - Alexa Skill
Web Interface: Yes + Android App available
Monitoring: Real Time Remote Monitoring Portal
Automatic EDID Management: Yes

*1080p 150 meters long range on request (100 meters as standard)

KIT INCLUDES:

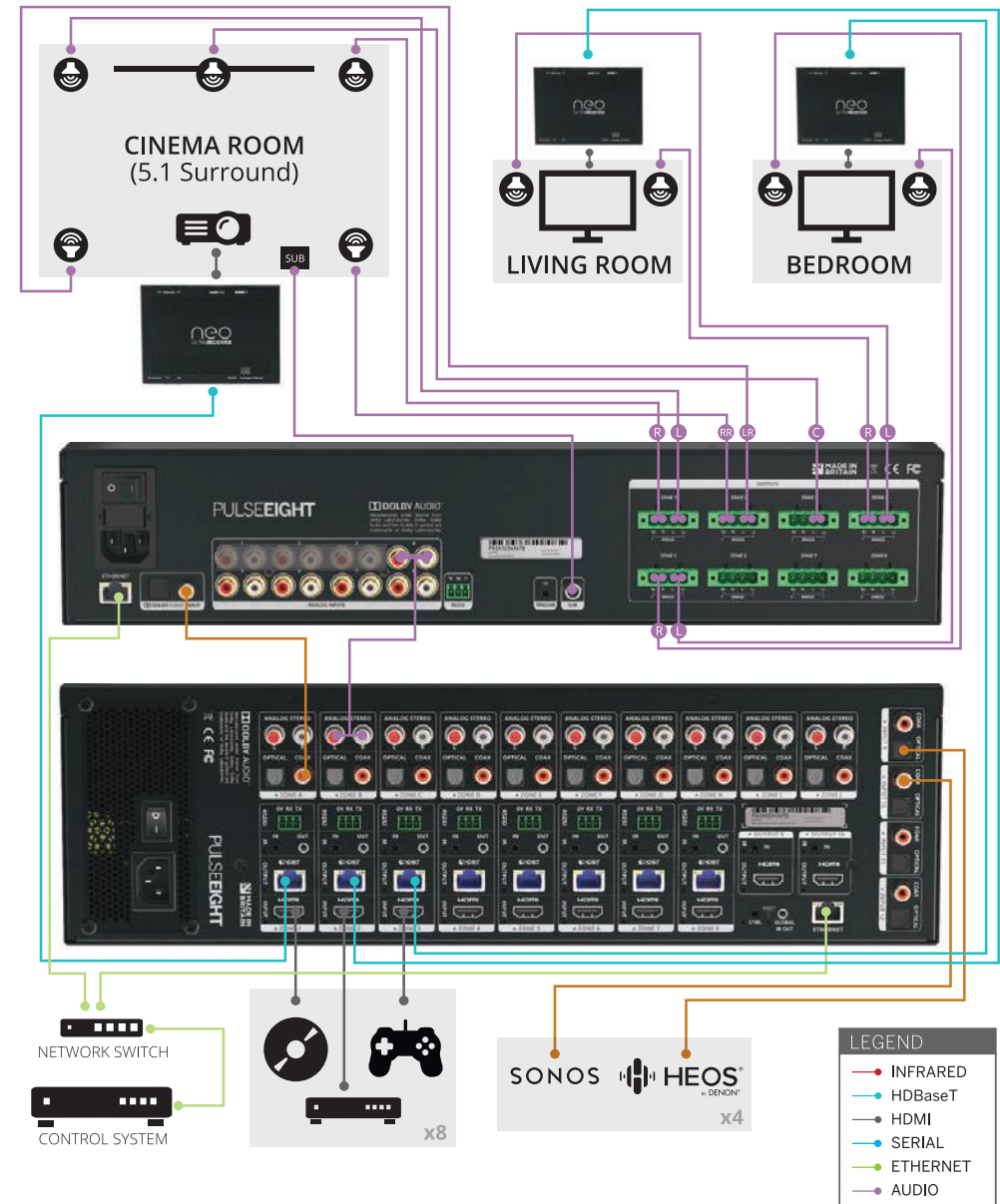
neo:X+ Chassis | 8x neo:Ultra PoH Receivers | Rack Ears
 8x Infrared Blaster Cable Pack | 8x Receiver Wall Brackets
 Country Specific Power Cord | Installation Guide
 Context Sensitive 8 Button IR Remote (for setup)

8 Receivers Included

Third Party Control: Yes - Drivers available
ARC (Audio Return Channel): Yes
DSC (Display Stream Compression): Yes
PoH: 8x neo:Ultra PoH Receivers included
Encryption: HDCP 1.4 and HDCP 2.2
Maximum Pixel Clock: 600Mhz
Maximum Bandwidth: 18Gbps
Maximum Video Resolution: 4K/60Hz 4:4:4
Power Consumption: Max 2Amps @ 240V
Power Supply: IEC C14 Inlet - 100-240V 4.0/2.0A 50/60Hz
Material: Brushed Aluminium (Anodised)
Product Dimensions: 44 x 13.2 x 31.6 cm - 3U (Matrix)
Product Weight: 4.83 kg (Matrix)
Operating Temp Range: 0 to +35°C (32 to +95°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Safety & Emissions: CE, FCC, RoHS
Manufactured In: Great Britain by Pulse-Eight



CONCEPT WIRING DIAGRAM: NEO:X+ AND PROAMP8



LEGEND	
—	INFRARED
—	HDBaseT
—	HDMI
—	SERIAL
—	ETHERNET
—	AUDIO

COMPATIBLE CONTROL SYSTEMS

Drivers available for our neo matrix range include:



neo HDBaseT™ VIDEO MATRIX RANGE



The neo HDBaseT™ video matrix range, available in 4x4 and 8x10 variants, is the perfect blend of simplicity and sophistication. Created by our passionate in-house engineering team for the sole purpose of seamlessly distributing video. By utilising the latest HDBaseT™ technology, our neo matrix systems push the boundaries of both performance and reliability.

Each neo matrix is fully manufactured in our state-of-the-art production facility within our head office in Poole on England's south coast. By retaining the entire design and assembly processes in-house we keep full control, ensuring we produce systems to the highest possible quality.

KEY FEATURES:

- 
CEC CONTROL
- 
**HDBaseT™
DIAGNOSTICS**
- 
**REMOTE
MONITORING**
- 
**WEB
INTERFACE**
- 
**RECEIVERS
INCLUDED**
- 
**3RD PARTY
CONTROL**
- 
**3 YEAR
WARRANTY**
- 
**BUILT IN
BRITAIN**



ULTIMATE CONTROL OF YOUR SOURCE DEVICES

Our neo video matrix range features unrivalled control options including set-top box IP, infrared, HDMI-CEC, voice control and web interface/remote app - the choice is yours! Pulse-Eight's flagship control technology, CEC, allows any supported TV to send key presses from the original TV remote through the HDBaseT™ link and the matrix will route these messages to the connected source devices, gone are the days of 5 remote controls in one room.



REMOTE MONITORING

It's important that you get video all the time, to enable this your system keeps in contact with our cloud management service. You can tell if this is working with the Monitored LED on the front of the matrix. If you get stuck, you can log into our cloud portal and see helpful diagnosis information, fix problems remotely or see where you may have gone wrong in the installation. All of this is free of charge. If the matrix has a problem, we get alerted too and we can get in contact to arrange to give you a step by step guide to get you up and running again, if required.



THIRD PARTY CONTROL

We are truly passionate about the AV industry and for that reason we understand that every installation is unique and some may have additional hardware to integrate. When we established our matrix range we had the aim to create systems that could easily work as a stand-alone unit but could also work with control systems. With drivers for such processors as RTI, Control4, Crestron, Elan (plus many more) we can ensure a neo matrix will be the perfect fit whatever the requirement.



EVERYTHING YOU NEED IN THE BOX

We believe in supplying all the hardware you need for the installation in a single box. With every neo matrix you will find the system itself alongside the required PoH receivers, rack ears, IR blaster cables (if you wish to use them) and an IR card remote to help with initial setup. When you see the price of our systems all of this is included as we only sell our matrix systems as a kit, giving you the best possible value for money.

neo: PROFESSIONAL

NEO:4 PROFESSIONAL 4X4 VIDEO MATRIX KIT



TECHNICAL SPECIFICATION:

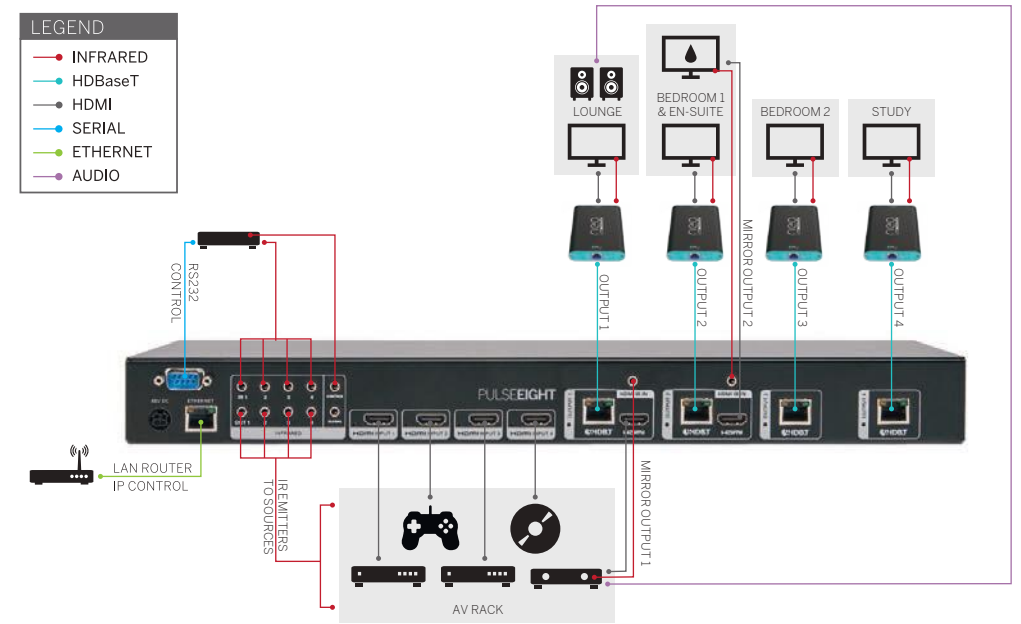
SKU: P8-HDBT-L-FFMS44-22-KIT
HDMI Inputs: 4
Audio Outputs: 0
HDBaseT Outputs: 4x HDBaseT Class B (lite)
HDMI Outputs: 2 (Mirror)
Max HDBaseT Cable Distance 4K: 40 meters
Max HDBaseT Cable Distance 1080p: 70 meters
HDBaseT Recommended Cable: Cat5e or greater
Ethernet Passthrough: No
Serial Control: Yes - RS-232
IP Control: Yes
IR Control: Bi-Directional
HDMI-CEC Control: Full
Voice Control: Yes - Alexa Skill
Web Interface: Yes + Android App available
Monitoring: Real Time Remote Monitoring Portal
Automatic EDID Management: Yes
Third Party Control: Yes - Drivers available

KIT INCLUDES:
 neo:4 Professional Chassis | 4x neo:Lite PoH Receivers
 4x Infrared Blaster Cable Pack | Installation Guide
 Country Specific Power Supply and Cord | Rack Ears
 Context Sensitive 4 Button IR Remote (for setup)



ARC (Audio Return Channel): No
DSC (Display Stream Compression): No
PoH: 4x neo:Lite PoH Receivers included
Encryption: HDCP 1.4 and HDCP 2.2
Maximum Pixel Clock: 340Mhz
Maximum Bandwidth: 10.2Gbps
Maximum Video Resolution: 4K/60Hz 4:2:0
Colour Supported: 4K: 8bit, 1080p: 12bit
Power Consumption: 120W
Power Supply: 48V @ 2.5Amps
Material: Smooth Textured Powder Coated Steel
Product Dimensions: 43 x 4.5 x 14 cm - 1U (Matrix)
Product Weight: 2.05 kg (Matrix)
Operating Temp Range: 0 to +35°C (32 to +95°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Safety & Emissions: CE, FCC, RoHS
Manufactured In: Great Britain by Pulse-Eight

CONCEPT WIRING DIAGRAM: NEO:4 PROFESSIONAL



CONCEPT SOLUTIONS: NEO:4 PROFESSIONAL

SOLUTION 1

SOURCE IN A ROOM
Use an additional neo:Lite HDMI Extender set to loop back to the matrix

SOLUTION 2

HOME THEATRE PC
Add a USB-CEC Adapter between the matrix and the PC via a HDMI input

SOLUTION 3

EXTRA ZONE
Use a HDMI mirror output with a neo:Lite Extender set (mirrored from the HDBaseT output)

COMPATIBLE CONTROL SYSTEMS

Drivers available for our neo matrix range include:



neo: BASIC

NEO:4 BASIC 4X4 VIDEO MATRIX KIT



TECHNICAL SPECIFICATION:

SKU: P8-HDBT-L-FFMB44-KIT
HDMI Inputs: 4
Audio Outputs: 0
HDBaseT Outputs: 4x HDBaseT Class B (lite)
HDMI Outputs: 0
Max HDBaseT Cable Distance 4K: 40 meters
Max HDBaseT Cable Distance 1080p: 70 meters
HDBaseT Recommended Cable: Cat5e or greater
Ethernet Passthrough: No
Serial Control: Yes - RS232 Port
IP Control: Yes
IR Control: Bi-Directional
HDMI-CEC Control: Basic Functions
Voice Control: No
Web Interface: Yes + Android App available
Monitoring: Real Time Remote Monitoring Portal
Automatic EDID Management: Yes
Third Party Control: Yes - Drivers available

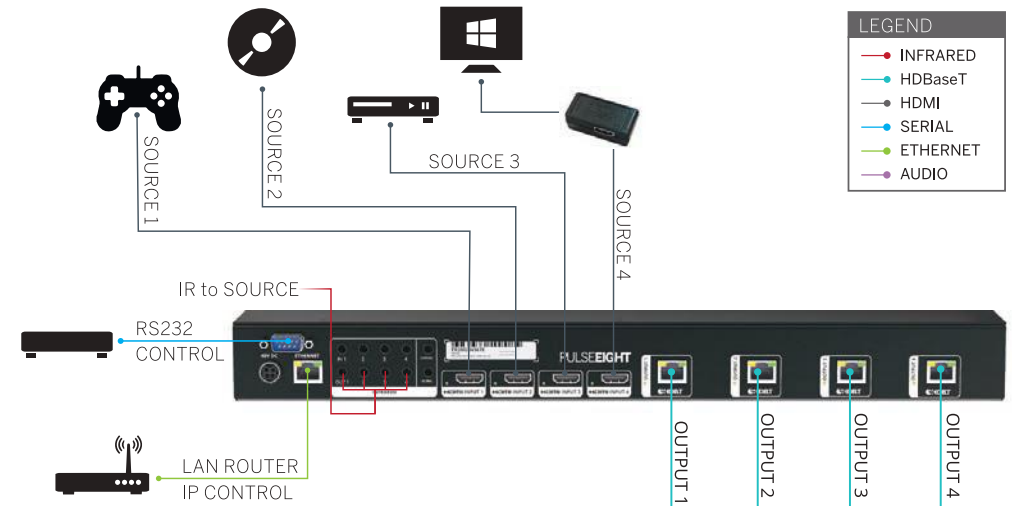
KIT INCLUDES:

neo:4 Basic Chassis | 4x neo:Lite PoH Receivers
 4x Infrared Blaster Cable Pack | Installation Guide
 Country Specific Power Supply and Cord | Rack Ears
 Context Sensitive 4 Button IR Remote (for setup)



ARC (Audio Return Channel): No
DSC (Display Stream Compression): No
PoH: 4x neo:Lite PoH Receivers included
Encryption: HDCP 1.4 and HDCP 2.2
Maximum Pixel Clock: 340Mhz
Maximum Bandwidth: 10.2Gbps
Maximum Video Resolution: 4K/60Hz 4:2:0
Colour Supported: 4K: 8bit, 1080p: 12bit
Power Consumption: 120W
Power Supply: 48V @ 2.5Amps
Material: Smooth Textured Powder Coated Steel
Product Dimensions: 43 x 4.5 x 14 cm - 1U (Matrix)
Product Weight: 2.05 kg (Matrix)
Operating Temp Range: 0 to +35°C (32 to +95°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Safety & Emissions: CE, FCC, RoHS
Manufactured In: Great Britain by Pulse-Eight

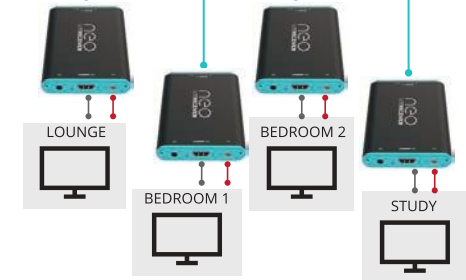
CONCEPT WIRING DIAGRAM: NEO:4 BASIC



LEGEND	
	INFRARED
	HDBaseT
	HDMI
	SERIAL
	ETHERNET
	AUDIO

COMPATIBLE CONTROL SYSTEMS

Drivers available for our neo matrix range include:



IDENTIFYING IR BUDS

IR EMITTER

The grey ended bud is placed over the IR window on the source device. Many of our products feature a matching grey port for easy installation.

IR RECEIVER

The black ended bud is to be placed on the TV's underside, designed especially for a discreet look on modern TVs.



HDMI™ HDBaseT™ HDCP 2.2

CONTROL YOUR WAY



MONITOR & TEST



INCLUDED FREE WITH EVERY NEO VIDEO MATRIX

A WORLD OF CONTROL

Pulse-Eight's neo matrix range offers unrivalled video control options, we believe the installer and end user should be able to select the most appropriate control method for that particular installation.



CEC

Imagine being able to control all of your devices (Sky, Blu-Ray Player etc) all from your original TV remote control... CEC control does just that. Most TVs now support CEC and, using our very own libCEC, you can just use your normal TV remote to select and control any connected source devices, even if the source does not support CEC itself.



SET TOP BOX IP CONTROL

We have implemented IP control with dynamic forwarding. Meaning that you can now control set top boxes via CEC. Working with Sky HD, Sky Q, Virgin TiVo, Dish Hopper and Kodi, this type of IP based control is a first for a matrix and removes the need for any IR control.



ALEXA VOICE CONTROL

With the neo Alexa skill enabled on your Amazon Echo or Dot you can use commands to turn a certain TV on or off or to control or switch source devices. Imagine being able to control your TV without having to lift a finger - the matrix will make your requests happen.



WEB INTERFACE

Our interface is a free function of all neo matrix systems - simply download the Android app or visit www.gotomymatrix.com to access. With drag and drop source switching plus a virtual remote displaying all the most important functions of a TV remote, the interface controls it all!



neo: TAP

Now compatible with iPhone XS/XR models running iOS11 or higher

The neo:Tap Virtual Remote Launcher* is designed to give the end user quick access to the neo TV Remote Control app for the room they are in. Completely wireless, works with most NFC enabled mobile devices and created by us to work seamlessly with the neo matrix range. No need to open apps...**Just tap!**

*neo:Tap sold separately

TOOLS FOR ON AND OFF SITE

We work closely alongside installers to ensure we do everything we possibly can to help every install run as planned. We know installs can sometimes encounter issues at setup and some can run fine until something unexpected happens (such as a builder drilling through a cable), we have refined tests and data listings to help you solve problems whenever they occur.



WEB INTERFACE

WWW.GOTOMYMATRIX.COM

While on-site our web interface is the one-stop location for the entire setup, alongside the settings, our interface features intuitive diagnostic tools to not only help during install but also for final testing to give you peace of mind that everything is in order before leaving site.

Interface Features:

- Cable Link Noise Test
- HDBaseT Link Test
- Full EDID Profile Control
- Alexa Voice Setup
- Network Settings
- CEC Control (on/off)
- Custom IR Profile Control
- Audio Routing (neo:X and X+ only)
- LED Adjustment
- System Hardware Details
- Reboot Function



MONITORING PORTAL

MONITORING.PULSE-EIGHT.COM

Our monitoring portal is the one-stop location to find all the information about your installed systems without needing to visit the site - check up on your installs from anywhere at any time!

Monitoring Features:

- System Health Information
- Temperature History Graph
- Network Configuration List
- Temperature History Graph
- Cable Link Quality Check
- Reboot Function
- Update System
- Driver Download



ProAmp

MULTI-ZONE POWER AMPLIFIER



Pulse-Eight's ProAmp8 is a powerful and versatile 8-Zone Power Amplifier that delivers excellent audio performance with robust and reliable Class D amplification in a compact form factor. The ProAmp8 is the all-in-one ideal solution for both surround sound and distributed audio systems.

The ProAmp8 offers a wide range of feature sets such as: full audio DSP and EQ settings, Multi-Zone Mode and Dolby Digital 5.1/3.1/2.1 Surround Sound Mode. This level of versatility allows for a home theatre alongside a multi-room whole-house distributed audio system all in one box. The amplifier is the perfect partner to Pulse-Eight's ProAudio DSP pre-amp range and latest neo matrices.

KEY FEATURES:

- 
EQUALISER CONTROL
- 
SUBWOOFER
- 
AUDIO DELAY
- 
DOLBY 5.1 SUPPORT
- 
WEB INTERFACE
- 
3RD PARTY CONTROL
- 
3 YEAR WARRANTY
- 
BUILT IN BRITAIN

THE ALL-IN-ONE SOLUTION FOR AMPLIFICATION



DRIVEN BY ICEpower

Each zone of the ProAmp Power Amplifier is driven by ICEpower modules, delivering up to 100 watts of high-quality sound per channel. Through ground-breaking innovation and worldclass knowledge, ICEpower has developed superior sound solutions for professional audio industries and end users all over the world.



FLEXIBLE CONFIGURATION

The ProAmp8 can be configured to either Stereo Multi-Zone Mode or Dolby Multi-Channel Mode. Stereo Multi-Zone enables 8 zones of stereo audio whereas Dolby Multi-Channel Mode allows a ground-breaking solution of a 5.1 Dolby surround setup alongside an additional 5 zones of stereo audio. This level of versatility allows for a 5.1 "home theatre" alongside a multi-room whole-house distributed audio system all in one box and eliminating the AVR.



THIRD PARTY CONTROL

We truly understand the AV market and work closely with industry professionals to ensure our products provide everything the end-user requires. For this reason we love to integrate the ability to work with third party control systems and provide drivers and API protocols for all major control brands.



ENERGY EFFICIENT

ProAmp has been designed for low-energy consumption, so when the amplifier is in standby and not in use it will 'auto-sense' which zones are in use and will power down those zones. With fast wake up times, the ProAmp will 'auto-sense' and power up within 1 second. The parameters of the sense levels and idle timeouts can be adjusted through the web interface.



EXPANDED WEB INTERFACE

Pulse-Eight have created a brand new custom Web Interface's for the ProAmp, the user-end enables controls for day-to-day use such as muting and volume control and the admin area is designed specifically for initial professional setup including full Dolby Mode settings and room acoustic adjustments.

ProAmp8

8 ZONE POWER AMPLIFIER



TECHNICAL SPECIFICATION:

SKU: P8-PROAMP8
Audio Inputs: 9
Stereo L/R Audio Inputs: 8
Digital Audio Inputs: 1 (Dolby 5.1 Supported)
Audio Outputs Zones: 8
Active Subwoofer: 1x Line-Level Active Output
12V Triggers: 1
Serial Control: Yes - RS232 Phoenix
TCP/IP Control: Yes
Auto-Sense Wake-Up: <1 second (from standby)
Third Party Control: Yes - Drivers available
Rated Power @4Ω load: 100 watts per channel @1% THD+N / 80 watts per channel @0.1% THD+N
Rated Power @8Ω load: 50 watts per channel @1% THD+N
Rated Bridged Power @8Ω load: 200 watts @1% THD+N / 160 watts @0.1% THD+N
Configuration Modes: Stereo Multi-Zone Mode or Dolby Multi-Channel Mode

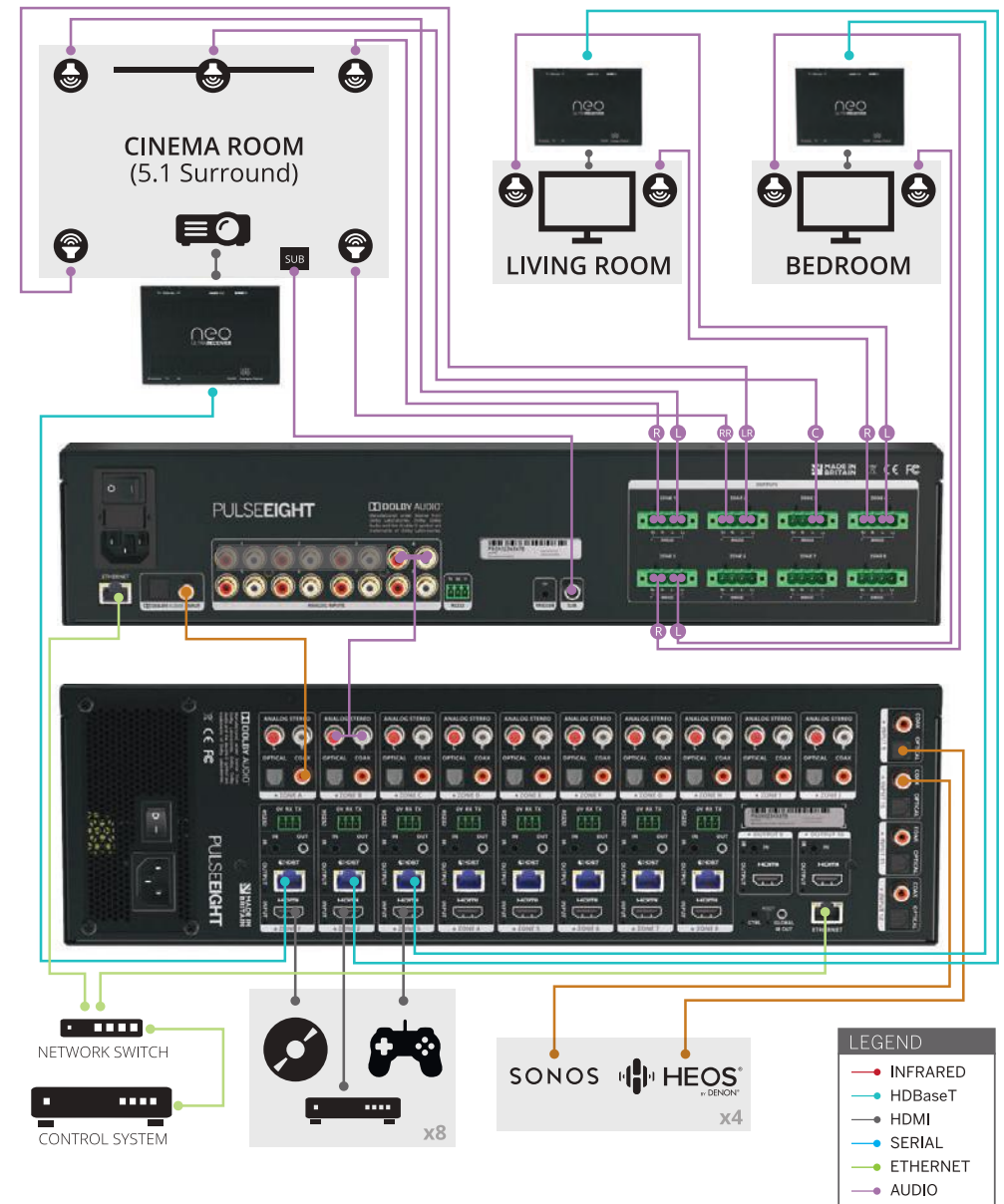
KIT INCLUDES:
 ProAudio8 Chassis | Power Cord | Rack Mounting Kit

Material: Brushed Aluminium (Anodised)
Product Dimensions: 44 x 8 x 22 cm - 2U
Operating Temp Range: 0 to +45°C (32 to 113°F)
Storage Temp Range: -20°C to 70°C (-4°F to 158°F)
Humidity Range: 5 to 90% RH (no condensation)
Safety & Emissions: CE, FCC, RoHS
Manufactured In: Great Britain by Pulse-Eight

Dolby Audio Mode:
Audio Delay: Up to 50ms per zone
Volume Adjustments: -99.5dB to +24dB
Equalizer: +/- 12dB
Bass & Treble: +/- 12dB
Line Level Output: Line level subwoofer
Volume Range: 0 - 100. Adjustable
Mute: On / Off
Bass & Treble: +/- 12dB
Stereo Channel Up-mix: Auto of stereo digital audio



CONCEPT WIRING DIAGRAM: PROAMP8 AND NEO:X+



COMPATIBLE CONTROL SYSTEMS

Drivers available for our ProAmp8 include:



ProAudio™








AUDIO MATRIX RANGE



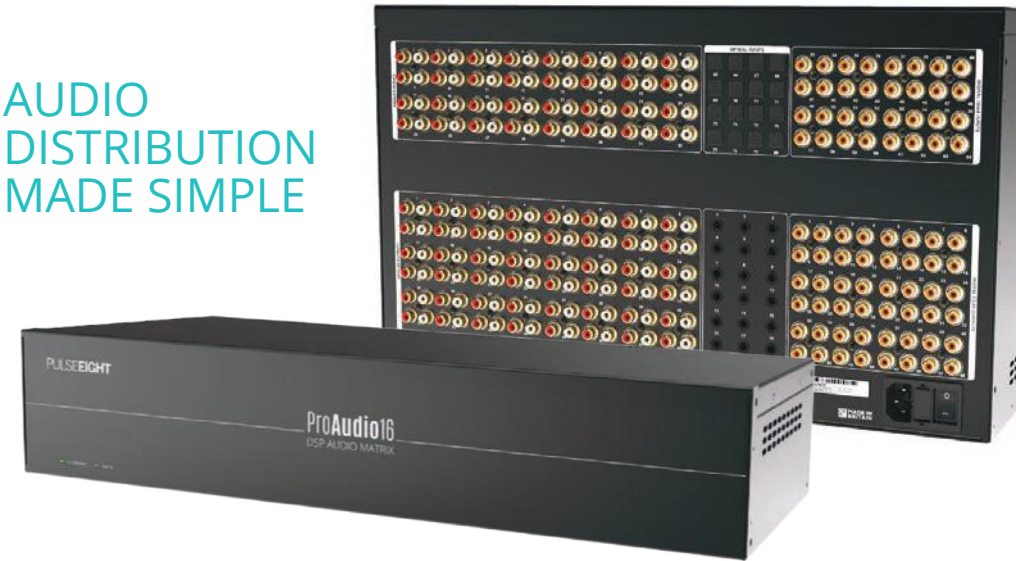
Pulse-Eight's ProAudio™ range of DSP pre-amp audio matrices offers innovative features and unmatched capabilities within the range. Designed exclusively by our own engineering team, the ProAudio systems are a versatile and cost-effective multi-zone audio system.

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. Cutting edge features such as lip sync delay, 5 band DSP attenuator per zone, zone locking, adjustable gain settings and automatic audio conversion, to name a few, and works seamlessly with all major control systems.

KEY FEATURES:

- 
5 BAND EQUALIZER
- 
SUBWOOFER CONTROL
- 
LIP SYNC DELAY
- 
ZONE LOCKING
- 
DOWNMIXING
- 
3RD PARTY CONTROL
- 
3 YEAR WARRANTY
- 
BUILT IN BRITAIN

AUDIO DISTRIBUTION MADE SIMPLE



MAXIMUM AUDIO CONTROL

The ProAudio series provides maximum sound control including bass, treble and a 5 band DSP attenuator available for each zone. Audio and tone control is adjustable in 0.5dB steps, and all allow direct or relative adjustments (eg: Set the volume to an absolute -12.5dB, or increase it by 3.0dB). The tone controls have a range of +/-20dB. To balance the different levels of audio coming from different pieces of equipment, each audio input has a full range gain adjustment. The adjustment range is: +24dB to -99.5dB, or full mute, in 0.5dB increments.



SUBWOOFER CONTROL

With low pass and high pass filter settings adjustable from 50Hz to 300Hz, selectable 12db/24db per octave slope with Butterworth or Linkwitz-Riley filters and selectable polarity for each zone, the ProAudio provides easily adaptable subwoofer control.



DOORBELL/PAGING FEATURES

The connections on the reverse of the system provides the ability to connect doorbell/pager inputs to any output zone and to automatically lower the current volume and push through the doorbell/pager signal. This can also be adapted for fire/evacuation messages.



AUTOMATIC AUDIO CONVERSION

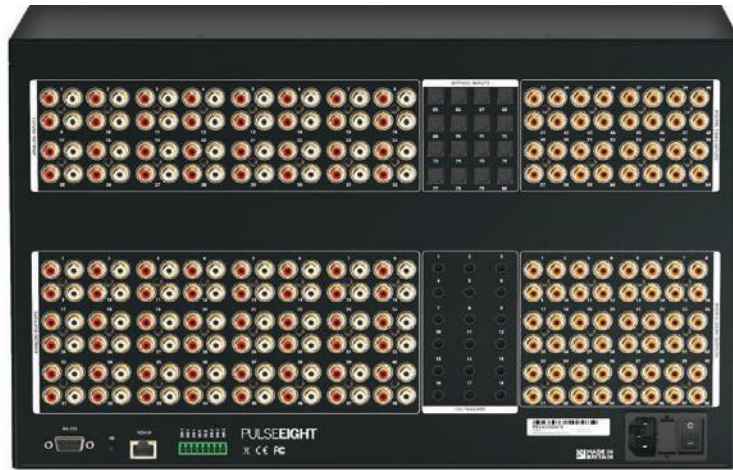
It makes no difference whether your audio comes in through the analogue inputs, digital coax inputs or digital optical inputs, all inputs can be converted to analogue to provide full flexibility. For hallways, and outdoor speakers, where stereo is not particularly useful, each zone can be mixed from stereo to mono using a variety of different methods.



KEEP IT SIMPLE SERIAL™

Available through the TCP/IP port or the RS-232 port, our K.I.S.S.™ is one of the easiest to use, serial port protocols, on the market. Yet the extensive bi-directional command set allows total control over the ProAudio™.

ProAudio3248



- 80 Audio Inputs
- 48 Audio Out Zones
- Lip Sync Delay
- Zone Lock
- Third Party Control
- Made In Britain



TECHNICAL SPECIFICATION:

SKU: P8-PROAUDIO3248
Audio Inputs: 80
Stereo L/R Audio Inputs: 32
Optical Audio Inputs: 16
Digital Coax Audio Inputs: 32
Audio Outputs: 48
Stereo L/R Audio Outputs: 48
Optical Audio Outputs: 48
12V Triggers: 18
Serial Control: Yes - RS232
TCP/IP Control: Yes
Third Party Control: Yes - Drivers available
Lip Sync Delay: Up to 170ms per zone
Volume Adjustments: 20db to +20db 0.5db steps
Equalizer: 5 band EQ per zone
Subwoofer Control: Yes
Treble: -20db to +20db 0.5db steps
Equalizer: 5 band EQ per zone

Input Gain Control: 24db to +24db
Output Gain Control: -24db to +24db
Transfer Rates: 13.2Mb/s
Audio Modes: PCM, DD5.1, DTS, All modes
Coax Input Levels: 200mV-7.0V (PC card compatible)
Coax Output Level: 500mV nominal into 75 ohms
Freq. Response: 5Hz-20KHz @ +/-0.1dB S.N
Ratio: > 85dB, 5Hz-20KHz
Input Impedance: 10K ohms
Power Supply: 12V / 60W
Material: Brushed Aluminium (Anodised)
Product Dimensions: 44 x 26 x 25 cm - 6U
Product Weight: 5 kg
Operating Temp Range: -10 to +70°C (14 to +158°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Safety & Emissions: CE, FCC, RoHS
Manufactured In: Great Britain by Pulse-Eight

KIT INCLUDES:

ProAudio3248 Chassis | Power Cord | Rack Mounting Kit



ProAudio32

DSP PRE-AMP AUDIO MATRIX



- 80 Audio Inputs
- 32 Audio Out Zones
- Lip Sync Delay
- Zone Lock
- Third Party Control
- Made In Britain



TECHNICAL SPECIFICATION:

SKU: P8-PROAUDIO32
Audio Inputs: 80
Stereo L/R Audio Inputs: 32
Optical Audio Inputs: 16
Digital Coax Audio Inputs: 32
Audio Outputs: 32
Stereo L/R Audio Outputs: 32
Optical Audio Outputs: 32
12V Triggers: 12
Serial Control: Yes - RS232
TCP/IP Control: Yes
Third Party Control: Yes - Drivers available
Lip Sync Delay: Up to 170ms per zone
Volume Adjustments: 20db to +20db 0.5db steps
Equalizer: 5 band EQ per zone
Subwoofer Control: Yes
Treble: -20db to +20db 0.5db steps
Equalizer: 5 band EQ per zone

Input Gain Control: 24db to +24db
Output Gain Control: -24db to +24db
Transfer Rates: 13.2Mb/s
Audio Modes: PCM, DD5.1, DTS, All modes
Coax Input Levels: 200mV-7.0V (PC card compatible)
Coax Output Level: 500mV nominal into 75 ohms
Freq. Response: 5Hz-20KHz @ +/-0.1dB S.N
Ratio: > 85dB, 5Hz-20KHz
Input Impedance: 10K ohms
Power Supply: 12V / 60W
Material: Brushed Aluminium (Anodised)
Product Dimensions: 44 x 22 x 25 cm - 4U
Product Weight: 4 kg
Operating Temp Range: -10 to +70°C (14 to +158°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Safety & Emissions: CE, FCC, RoHS
Manufactured In: Great Britain by Pulse-Eight

KIT INCLUDES:

ProAudio32 Chassis | Power Cord | Rack Mounting Kit



ProAudio1632

DSP PRE-AMP AUDIO MATRIX



- 40 Audio Inputs
- 32 Audio Out Zones
- Lip Sync Delay
- Zone Lock
- Third Party Control
- Made In Britain



TECHNICAL SPECIFICATION:

SKU: P8-PROAUDIO1632
Audio Inputs: 40
Stereo L/R Audio Inputs: 16
Optical Audio Inputs: 8
Digital Coax Audio Inputs: 16
Audio Outputs: 32
Stereo L/R Audio Outputs: 32
Optical Audio Outputs: 32
12V Triggers: 12
Serial Control: Yes - RS232
TCP/IP Control: Yes
Third Party Control: Yes - Drivers available
Lip Sync Delay: Up to 170ms per zone
Volume Adjustments: 20db to +20db 0.5db steps
Equalizer: 5 band EQ per zone
Subwoofer Control: Yes
Treble: -20db to +20db 0.5db steps
Equalizer: 5 band EQ per zone

KIT INCLUDES:

ProAudio1632 Chassis | Power Cord | Rack Mounting Kit



ProAudio16

DSP PRE-AMP AUDIO MATRIX



- 48 Audio Inputs
- 16 Audio Out Zones
- Lip Sync Delay
- Zone Lock
- Third Party Control
- Made In Britain



TECHNICAL SPECIFICATION:

SKU: P8-PROAUDIO16
Audio Inputs: 48
Stereo L/R Audio Inputs: 16
Optical Audio Inputs: 16
Digital Coax Audio Inputs: 16
Audio Outputs: 16
Stereo L/R Audio Outputs: 16
Optical Audio Outputs: 16
12V Triggers: 0
Serial Control: Yes - RS232
TCP/IP Control: Yes
Third Party Control: Yes - Drivers available
Lip Sync Delay: Up to 170ms per zone
Volume Adjustments: 20db to +20db 0.5db steps
Equalizer: 5 band EQ per zone
Subwoofer Control: Yes
Treble: -20db to +20db 0.5db steps
Equalizer: 5 band EQ per zone

KIT INCLUDES:

ProAudio16 Chassis | Power Cord | Rack Mounting Kit



ProAudio8

DSP PRE-AMP AUDIO MATRIX



TECHNICAL SPECIFICATION:

SKU: P8-PROAUDIO8

- Audio Inputs:** 24
- Stereo L/R Audio Inputs:** 8
- Optical Audio Inputs:** 8
- Digital Coax Audio Inputs:** 8
- Audio Outputs:** 8
- Stereo L/R Audio Outputs:** 8
- Optical Audio Outputs:** 8
- 12V Triggers:** 0
- Serial Control:** Yes - RS232
- TCP/IP Control:** Yes
- Third Party Control:** Yes - Drivers available
- Lip Sync Delay:** Up to 170ms per zone
- Volume Adjustments:** 20db to +20db 0.5db steps
- Equalizer:** 5 band EQ per zone
- Subwoofer Control:** Yes
- Treble:** -20db to +20db 0.5db steps
- Equalizer:** 5 band EQ per zone

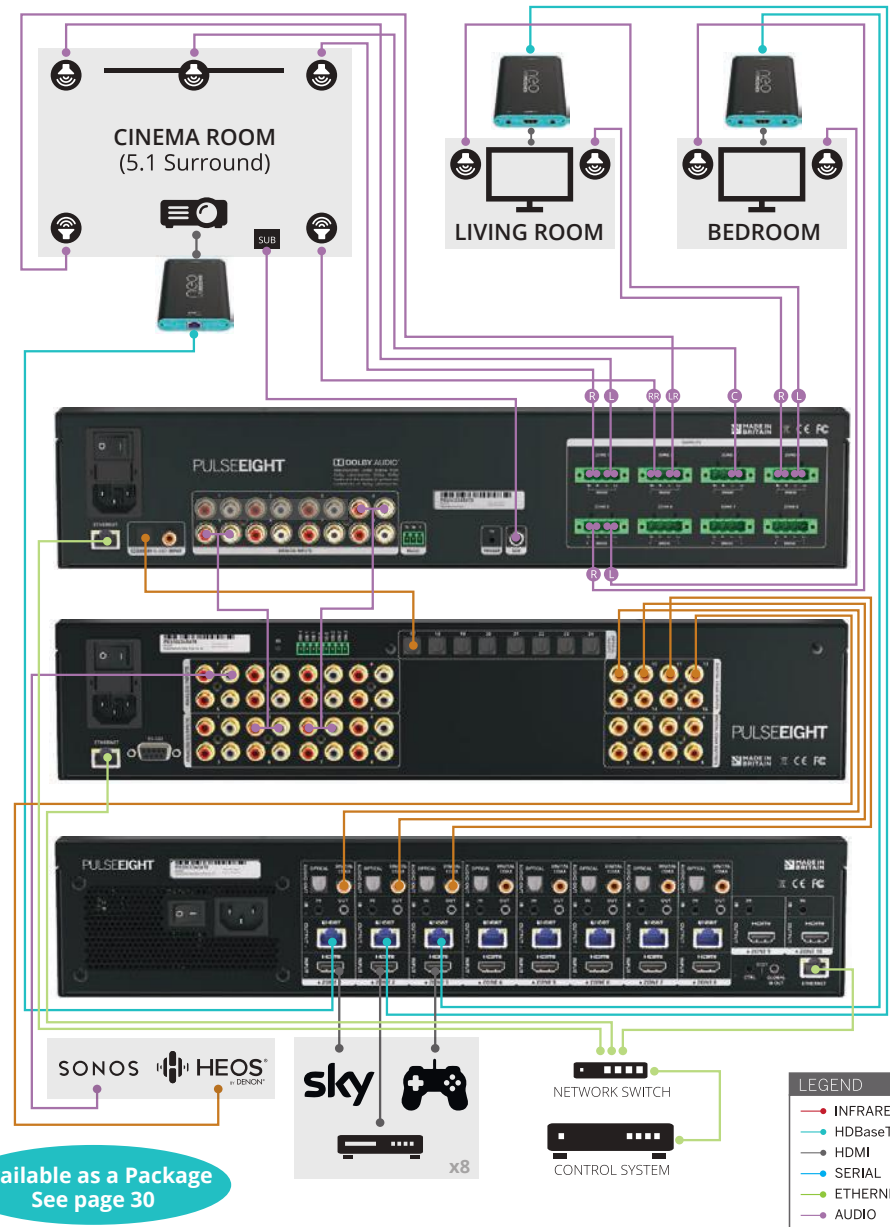
KIT INCLUDES:

ProAudio8 Chassis | Power Cord | Rack Mounting Kit

- Input Gain Control:** 24db to +24db
- Output Gain Control:** -24db to +24db
- Transfer Rates:** 13.2Mb/s
- Audio Modes:** PCM, DD5.1, DTS, All modes
- Coax Input Levels:** 200mV-7.0V (PC card compatible)
- Coax Output Level:** 500mV nominal into 75 ohms
- Freq. Response:** 5Hz-20KHz @ +/-0.1dB S.N
- Ratio:** > 85dB, 5Hz-20KHz
- Input Impedance:** 10K ohms
- Power Supply:** 12V / 60W
- Material:** Brushed Aluminium (Anodised)
- Product Dimensions:** 44 x 8 x 22 cm - 2U
- Product Weight:** 2 kg
- Operating Temp Range:** -10 to +70°C (14 to +158°F)
- Storage Temp Range:** -20°C to 60°C (-4°F to 140°F)
- Humidity Range:** 5 to 90% RH (no condensation)
- Safety & Emissions:** CE, FCC, RoHS
- Manufactured In:** Great Britain by Pulse-Eight



CONCEPT WIRING DIAGRAM: PROAUDIO8, NEO:8a AND PROAMP8



Available as a Package
See page 30

COMPATIBLE CONTROL SYSTEMS

Drivers available for our ProAudio range include:



PERFECT PACKAGES



We have combined products to create powerful packages for all of your audio and video distribution requirements. Our PPV packages combine our neo video matrices alongside ProAudio DSP pre-amps plus our ProAmp power amplifiers for complete audio and video distribution working side-by-side. Our PPP packages focus purely on audio with packages featuring our powerful ProAudio systems alongside ProAmp power amplifiers for large scale audio distribution.

AUDIO PACKAGES



1x ProAudio8 + 1x ProAmp8
PPP8 Package

Package Allows 24 input choices (8 total) both digital and analogue and either 8 zones of distributed DSP corrected audio or a 5.1 theatre zone and 5 zones of stereo audio plus 12V triggers multiple subwoofer options and RS232 and IP control.



1x ProAudio16 + 2x ProAmp8
PPP16 Package

Package Allows 46 input choices (16 total) both digital and analogue and either 16 zones of distributed DSP corrected audio or two 5.1 theatre zones and 10 zones of stereo audio plus 12V triggers multiple subwoofer options and RS232 and IP control.

VIDEO & AUDIO PACKAGES



1x neo:8a, 1x ProAudio8 + 1x ProAmp8
PPV8A Package

Package allows 10 zones of 4K/60Hz 4:2:0 HDBaseT Video plus 24 audio input choices, both digital and analogue, and a choice of either 8 zones of distributed audio or a 5.1 theatre zone and 5 zones of DSP corrected audio plus 12V triggers, multiple subwoofer options and RS232 and IP control.



1x neo:X+, 1x ProAudio16 + 2x ProAmp8
PPVX Package

Package Allows 10 zones of 4K/60Hz 4:4:4 UHD HDBaseT Video with ARC and Ethernet plus 40x audio input choices both digital and analogue to a choice of either 16 zones of distributed audio or two 5.1 theatre zones and 10 zones of DSP corrected audio plus 12V triggers, multiple subwoofer options and RS232 and IP control.



1x ProAudio1632 + 4x ProAmp8
PPP1632 Package

Package Allows 40 input choices (16 total) both digital and analogue and either 32 zones of distributed DSP corrected audio or four 5.1 theatre zone and 20 zones of stereo audio plus 12V triggers multiple subwoofer options and RS232 and IP control.



1x ProAudio32 + 4x ProAmp8
PPP32 Package

Package Allows 80 input choices (32 total) both digital and analogue and either 32 zones of distributed DSP corrected audio or four 5.1 theatre zone and 20 zones of stereo audio plus 12V triggers multiple subwoofer options and RS232 and IP control.

neo HDMI EXTENDER RANGE



Our neo range of HDMI over HDBaseT™ extender sets offer the very best in performance and flexibility. With the aim to keep our HDMI extension solutions simple, instead of hundreds of variants, we created just three tiers, each more capable than the last.

The neo:Lite Extender Kit can extend 4K up to 40 Meters and 1080p to 70 Meters over a single CAT cable. For those times when 70metres is not quite enough, the neo:Pro Extender Set extends 4K up to 70 meters and 1080p up to 100 meters. The neo:Ultra is our top of the range extender set reaching distances of 150* meters for 1080p and up to 100 meters for 4K (4:4:4 8Bit or 4K/60HDR 4:2:2).

**1080p 150 meters long range on request (100 meters as standard)*

KEY FEATURES:



PoH AS STANDARD



4K + 1080P SUPPORTED



LOW PROFILE



LED INDICATORS



BI-DIRECTIONAL INFRARED



3 YEAR WARRANTY



BUILT IN BRITAIN



HDMI EXTENSION WITH A DIFFERENCE



BI-DIRECTIONAL IR

Not just source control, sometimes your control system needs to use IR to control the TV or perhaps another item of equipment in the room, with bi-directional IR, you can connect the supplied IR buds to devices to control remote and local devices



PoH (POWER OVER HDBaseT)

Each neo HDMI receiver can be powered via the HDBaseT link. Simply connect a CAT cable between the receiver and transmitter and the video and power will all be transferred, no need for a power supply on the receiver, just the single cable will do it all.



IN-BUILT TOOLS

All of our Extender Sets feature IR activity sensors where an LED indicates that an IR signal is being received - no more guessing if the IR is connected correctly, simply check the LED. The neo:Lite has an additional Link Quality LED which illuminates to show the cable link cannot support 4K. All 3 of our Extender Sets feature LEDs on the HDBaseT connection to show if PoH and the video link are being transferred.



DSC (DISPLAY STREAM COMPRESSION)

The neo:Ultra Extender features DSC, a VESA approved compression that ensures full 4K with zero latency and a visually lossless picture. With DSC you can finally extend 4K 4:4:4/60Hz over a HDBaseT link up to 100 meters and 1080p up to 150 meters.

**1080p 150 meters long range on request (100 meters as standard)*



ARC (AUDIO RETURN CHANNEL)

With ARC on the neo:Ultra Extender, audio from the sink device (TV) can be sent back to the transmitter enabling audio breakout - perfect when using the TV's in-built apps but require the audio through external speakers. What's more is ARC uses the same cable as the HDBaseT link so no additional wires required.

neo:Ultra

HDBaseT™ CLASS C + DSC HDMI EXTENDER SET



TECHNICAL SPECIFICATION:

SKU: P8-HDBT2-U-EXSET
Transmitter Inputs: 1x HDMI
Transmitter Outputs: 1x HDBaseT Class C + DSC
Receiver Inputs: 1x HDBaseT Class C + DSC
Receiver Outputs: 1x HDMI
Max HDBaseT Cable Distance 4K: 100 meters
Max HDBaseT Cable Distance 1080p: 150* meters
HDBaseT Recommended Cable: Cat5e or greater
Ethernet Passthrough: Yes
Serial Control: RS232 via 3.5mm (adapter required)
IR Control: Bi-Directional
HDMI-CEC Control: Full
ARC (Audio Return Channel): HDMI & Toslink 3.5mm
DSC (Display Stream Compression): Yes
PoH: Yes
LED Indicators: Yes

Encryption: HDCP 1.4 and HDCP 2.2
Maximum Pixel Clock: 600Mhz
Maximum Bandwidth: 18Gbps
Maximum Video Resolution: 4K/60Hz 4:4:4
Colour Supported: 4K: 12bit, 1080p: 12bit
Power Consumption: Transmitter: 7.3W / Receiver: 8W
Power Supply: 1 x 48V @ 0.5A (Transmitter only)
Wall Mountable: Yes - Bracket Included
Material: Aluminium
Product Dimensions: 10.5 x 14.8 x 1.3 cm each
Product Weight: 0.17 kg each
Operating Temp Range: 0 to +35°C (32 to +95°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Safety & Emissions: CE, FCC, RoHS
Manufactured In: Great Britain by Pulse-Eight

KIT INCLUDES:

neo:Ultra PoH Receiver | neo:Ultra Transmitter | IR Blaster Cable Pack | Wall Brackets | Installation Guide | Power Supply (Transmitter)
 * Receivers and Transmitters also sold separately

neo:Pro

HDBaseT™ CLASS C HDMI EXTENDER SET



TECHNICAL SPECIFICATION:

SKU: P8-HDBT2-P-EXSET
Transmitter Inputs: 1x HDMI
Transmitter Outputs: 1x HDBaseT Class C
Receiver Inputs: 1x HDBaseT Class C
Receiver Outputs: 1x HDMI
Max HDBaseT Cable Distance 4K: 70 meters
Max HDBaseT Cable Distance 1080p: 100 meters
HDBaseT Recommended Cable: Cat5e or greater
Ethernet Passthrough: Yes
Serial Control: RS232 via 3.5mm (adapter required)
IR Control: Bi-Directional
HDMI-CEC Control: Full
ARC (Audio Return Channel): HDMI only
DSC (Display Stream Compression): No
PoH: Yes
LED Indicators: Yes

Encryption: HDCP 1.4 and HDCP 2.2
Maximum Pixel Clock: 340Mhz
Maximum Bandwidth: 10.2Gbps
Maximum Video Resolution: 4K/60Hz 4:2:0
Colour Supported: 4K: 8bit, 1080p: 12bit
Power Consumption: Transmitter: 7.3W / Receiver: 8W
Power Supply: 1 x 48V @ 0.5A (Transmitter only)
Wall Mountable: Yes - Bracket Included
Material: Aluminium
Product Dimensions: 10.5 x 14.8 x 1.3 cm each
Product Weight: 0.17 kg each
Operating Temp Range: 0 to +35°C (32 to +95°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Safety & Emissions: CE, FCC, RoHS
Manufactured In: Great Britain by Pulse-Eight

KIT INCLUDES:

neo:Pro PoH Receiver | neo:Pro Transmitter | IR Blaster Cable Pack | Wall Brackets | Installation Guide | Power Supply (Transmitter)
 * Receivers and Transmitters also sold separately

*1080p 150 meters long range on request (100 meters as standard)

neo:Lite

HDBaseT™ CLASS B HDMI EXTENDER SET



- Extend 1080p 70m
- Extend 4K 40m
- Bi-Directional IR
- PoH Receiver
- 3 Year Warranty
- Made In Britain



TECHNICAL SPECIFICATION:

SKU: P8-HDBT-L-EXSET

Transmitter Inputs: 1x HDMI

Transmitter Outputs: 1x HDBaseT Class B

Receiver Inputs: 1x HDBaseT Class B

Receiver Outputs: 1x HDMI

Max HDBaseT Cable Distance 4K: 40 meters

Max HDBaseT Cable Distance 1080p: 70 meters

HDBaseT Recommended Cable: Cat5e or greater

Ethernet Passthrough: No

Serial Control: No

IR Control: Bi-Directional

HDMI-CEC Control: Full

ARC (Audio Return Channel): No

DSC (Display Stream Compression): No

PoH: Yes

LED Indicators: Yes

KIT INCLUDES:

neo:Lite PoH Receiver | neo:Lite Transmitter | IR Blaster Cable Pack | Installation Guide | Power Supply (Transmitter)

* Receivers and Transmitters also sold separately

Encryption: HDCP 1.4 and HDCP 2.2

Maximum Pixel Clock: 340Mhz

Maximum Bandwidth: 10.2Gbps

Maximum Video Resolution: 4K/60Hz 4:2:0

Colour Supported: 4K: 8bit, 1080p: 12bit

Power Consumption: Transmitter: 3W / Receiver: 5.5W

Power Supply: 1 x 48V @ 0.5A (Transmitter only)

Wall Mountable: Yes - bracket sold separately

Material: Extruded Aluminium

Product Dimensions: 11.5 x 8.2 x 1.8 cm each

Product Weight: 0.17 kg each

Operating Temp Range: 0 to +40°C (32 to +104°F)

Storage Temp Range: -20°C to 60°C (-4°F to 140°F)

Humidity Range: 5 to 90% RH (no condensation)

Safety & Emissions: CE, FCC, RoHS

Manufactured In: Great Britain by Pulse-Eight

COMING SOON

HDBaseT™ Spec 3.0

UNCOMPRESSED & UNCOMPROMISED 4K/60Hz 4:4:4



- 1:1 UNCOMPRESSED HDMI 2.0 (18Gbps)
- 1GB ETHERNET
- BI-DIRECTIONAL VIDEO & AUDIO
- SUPPORTS TX & RX FUNCTIONS
- HDBaseT BACKWARD COMPATIBLE (HDBaseT 1&2)
- USB EXTENSION



*Design subject to change.

ACCESSORIES

SOLUTION RANGE



Modern day installations are not always plain sailing and when a minor issue occurs you need a simple fix that will sort the problem in a permanent and stable way. We have worked closely with installers to create a range of such products. From lip sync to mixed resolution deployments, we create products that will solve the commonly found issues that our installers often face.

Our accessory solutions include HDMI Splitters, 4K Downscaler, Opto-Coupling Cable, Audio Delay Device, Audio Extender Set and our ever-popular DACs (Digital to Analogue Converter). All of our accessories are designed in-house by us, to work seamlessly alongside our matrices and extenders but also can work independently if required.

SOLUTIONS FOR:



LIP SYNC ISSUES



AUDIO EXTENSION



DOWN SCALING



MULTI RESOLUTIONS



AUDIO CONVERSION



CEC CONTROL



TECHNICAL SPECIFICATION:

SKU: P8-HDBT-L-SP4

Inputs: 1x HDMI

Outputs: 4x HDBaseT Class B

Max HDBaseT Cable Distance 4K: 40 meters

Max HDBaseT Cable Distance 1080p: 70 meters

HDBaseT Recommended Cable: Cat5e or greater

Ethernet Passthrough: No

Serial Control: No

IR Control: Return IR

HDMI-CEC Control: Full

Voice Control: Yes - Alexa Skill

IP Control: Yes

Web Interface: Yes + Android App available

Monitoring: Real Time Remote Monitoring Portal

ARC (Audio Return Channel): No

DSC (Display Stream Compression): No

PoH: Requires neo:Lite PoH Receivers (sold separately)

Encryption: HDCP 1.4 and HDCP 2.2

Maximum Pixel Clock: 340Mhz

Maximum Bandwidth: 10.2Gbps

Maximum Video Resolution: 4K/60Hz 4:2:0

Colour Supported: 4K: 8bit, 1080p: 12bit

Power Consumption: 48V @ 0.5A

Power Supply: 1 x 48V @ 0.5A (Transmitter only)

Material: Anodized Aluminium

Product Dimensions: 18.6 x 4.3 x 22 cm

Product Weight: 1.32 kg

Operating Temp Range: 0 to +35°C (32 to +95°F)

Storage Temp Range: -20°C to 60°C (-4°F to 140°F)

Humidity Range: 5 to 90% RH (no condensation)

Safety & Emissions: CE, FCC, RoHS

Manufactured In: Great Britain by Pulse-Eight

KIT INCLUDES:

neo:1-4 HDBaseT Splitter | Country Specific Power Cord | Power Supply

* neo:Lite PoH Receivers Required - Sold Separately





1-4 HDMI SPLITTER



The ideal solution for splitting a single HDMI input to 4 HDMI outputs simultaneously. With automatic EDID management, IR and CEC control. Supports high-speed HDMI 2.0a and/or HDMI 2.0b Ultra HD 4K/60Hz, 4:4:4 (18Gbps).

TECHNICAL SPECIFICATION:

- SKU:** P8-HDMI2-SP4
- Inputs:** 1x HDMI
- Outputs:** 4x HDMI
- Ethernet Passthrough:** No
- Serial Control:** No
- IR Control:** Return IR
- HDMI-CEC Control:** Full
- Voice Control:** Yes
- IP Control:** No
- Web Interface:** Yes
- Monitoring:** Yes
- ARC (Audio Return Channel):** No
- DSC (Display Stream Compression):** No
- Encryption:** HDCP 1.4 and HDCP 2.2
- Maximum Pixel Clock:** 600Mhz
- Maximum Bandwidth:** 18Gbps
- Maximum Video Resolution:** 4K/60Hz 4:4:4
- Colour Supported:** 4K: 12bit, 1080p: 12bit
- Power Consumption:** 5V @ 2Amps
- Power Supply:** 5V DC Barrel Jack 2.1mm
- Material:** Anodized Aluminium
- Product Dimensions:** 43 x 4.3 x 14 cm
- Product Weight:** 0.9 kg
- Operating Temp Range:** 0 to +35°C (32 to +95°F)
- Storage Temp Range:** -20°C to 60°C (-4°F to 140°F)
- Humidity Range:** 5 to 90% RH (no condensation)
- Safety & Emissions:** CE, FCC, RoHS
- Manufactured In:** Great Britain by Pulse-Eight

KIT INCLUDES:

neo:1-4 HDMI Splitter | Country Specific Power Supply



1-2 HDMI SPLITTER



Distribute high speed HDMI 2.0a and/or HDMI 2.0b Ultra HD 4K, 4:4:4 (18Gbps) video to 2 outputs simultaneously. Automatic EDID management simplifies installation, automatically copying capabilities from output 1 display

TECHNICAL SPECIFICATION:

- SKU:** P8-HDMI2-SP2
- Inputs:** 1x HDMI
- Outputs:** 2x HDMI
- Ethernet Passthrough:** No
- Serial Control:** No
- IR Control:** Return IR
- HDMI-CEC Control:** Output 1 only
- Voice Control:** No
- IP Control:** No
- Web Interface:** No
- Monitoring:** No
- ARC (Audio Return Channel):** No
- DSC (Display Stream Compression):** No
- Encryption:** HDCP 1.4 and HDCP 2.2
- Maximum Pixel Clock:** 600Mhz
- Maximum Bandwidth:** 18Gbps
- Maximum Video Resolution:** 4K/60Hz 4:4:4
- Colour Supported:** 4K: 12bit, 1080p: 12bit
- Power Consumption:** 5V @ 2Amps
- Power Supply:** 5V DC Barrel Jack 2.1mm
- Material:** Extruded Aluminium
- Product Dimensions:** 11.5 x 1.8 x 8.2 cm
- Product Weight:** 0.14 kg
- Operating Temp Range:** 0 to +35°C (32 to +95°F)
- Storage Temp Range:** -20°C to 60°C (-4°F to 140°F)
- Humidity Range:** 5 to 90% RH (no condensation)
- Safety & Emissions:** CE, FCC, RoHS
- Manufactured In:** Great Britain by Pulse-Eight

KIT INCLUDES:

neo:1-2 HDMI Splitter | Country Specific Power Supply





HDMI UHD 18Gbps DOWNSCALER



Our 6G (18Gbps) HDMI 4K downscaling solution can convert your 4K content to 1080p in real time with no latency or tearing. Ideal as a quick fix to your mixed resolution deployments, and its low profile means it sits perfectly behind the TV.

KEY FEATURES:

- Seamlessly downscapes 4K UHD signals to 1080p
- Designed for installation with mixed resolution TVs
- Simple set up using HDMI input and output
- Rotation dial switch for selecting downscale mode
- Discreet design, only 1.8cm high
- Optional optical port for using S/PDIF audio output

OVERVIEW:



TECHNICAL SPECIFICATION:

SKU: P8-HDMI2-4KDS
Inputs: 1x HDMI
Outputs: 1x HDMI, 1x Optical (Toslink)
Scale Video Down from: 3840x2160p @24/25/30/60Hz to 1920x1080p @ 24/25/30/60Hz
Output Impedance: 100Ω
Encryption: HDCP 1.4 and HDCP 2.2
Audio Input Format: 5.1 Dolby Digital or 2ch Stereo PCM
Audio Output Format: 5.1 Dolby Digital or 2ch Stereo PCM
Maximum Pixel Clock: 600Mhz
Maximum Bandwidth: 18Gbps
Maximum Video Resolution: 4K/60Hz 4:4:4
Power Supply: 5V DC
Product Dimensions: 7.8 x 2.4 x 7.8 cm
Product Weight: 0.1 kg
Operating Temp Range: 0 to +35°C (32 to +95°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Manufactured In: Great Britain by Pulse-Eight

HDMI™ HDCP2.2



DIGITAL AUDIO OVER CAT5e/6 EXTENDER



Digital audio over extreme distances can be tricky in isolation, our audio extender uses a standard Cat5e/6 cable to seamlessly transmit S/PDIF (Toslink) audio. The perfect solution to extending audio signals up to distances of 200m over a single cable.

KEY FEATURES:

- Supports coaxial or S/PDIF digital audio signals
- Supports Stereo and Multichannel digital audio
- Supports 2ch PCM audio inputs
- 5.1 Compressed audio supported
- Extension length up to 200m
- Extends via a single CAT5e or CAT6 cable

OVERVIEW:



TECHNICAL SPECIFICATION:

SKU: P8-AE-CAT-EXSET
Transmitter Inputs: Digital Coax or Optical (S/PDIF)
Transmitter Outputs: Cat5e/Cat6
Receiver Inputs: Cat5e/Cat6
Receiver Outputs: Digital Coax or Optical (S/PDIF)
Recommended Cable: Cat5e or greater
Maximum Cable Length: 200 meters
Audio Format Input: 5.1 Dolby Digital / 2ch Stereo PCM
Audio Format Output: 5.1 Dolby Digital / 2ch Stereo PCM
Power Consumption: Max 5W
Power Supply: 5V DC
Material: Anodized Aluminium
Product Dimensions: 6.3 x 2.2 x 6.2 cm each
Product Weight: 0.10 kg each
Operating Temp Range: 0 to +35°C (32 to +95°F)
Operating Humidity Range: 5 to 90% RH (no condensation)
Safety & Emissions: CE, FCC, RoHS
Manufactured In: Great Britain by Pulse-Eight

MADE IN BRITAIN

MADE IN BRITAIN



DOLBY DIGITAL DOWNMIXER DAC



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. Stereo output signals can then be fed to external devices.

KEY FEATURES:

- Both inputs and outputs for coaxial and optical connections
- Ensures a reliable transition from modern digital source devices
- Decodes connected digital S/PDIF coaxial or TOSLINK optical digital audio sources to standard analogue stereo L/R audio

OVERVIEW:



INPUT SIDE



OUTPUT SIDE

TECHNICAL SPECIFICATION:

SKU: P8-DDAC
Inputs: Digital Coax or Optical (S/PDIF)
Outputs: Stereo L+R (Phono)
Distortion: <0.001% @ 1kHz at 2V RMS
Signal to Noise Ratio: > 90dB (20Hz - 20kHz)
Output Impedance: 500Ω
Frequency Response: < +/-0.5dB"
Encryption: HDCP 1.4 and HDCP 2.2
Power Consumption: Max 5W
Power Supply: 5V DC
Material: Anodized Aluminium
Product Dimensions: 7.8 x 2.4 x 6.2 cm
Product Weight: 0.1 kg
Operating Temp Range: 0 to +35°C (32 to +95°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Manufactured In: Great Britain by Pulse-Eight



HDMI DOWNMIXER DAC



The P8-HDMI DAC video scaler and digital 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.

KEY FEATURES:

- In line downmix of incoming Dolby Digital to stereo PCM audio over HDMI
- 3.5mm audio breakout
- Downscale 4K/30p > 1080/24p, to enable 1080p screens to view 4K sources through a video matrix
- Upscale 1080/24p > 4K/30p, for 4K screens

OVERVIEW:



INPUT SIDE



OUTPUT SIDE

TECHNICAL SPECIFICATION:

SKU: P8-HDMI DAC
Input: 1x HDMI
Output: 1x HDMI
Scale Video Up from: 1920x1080p @ 24/25/30Hz to 3840x2160p @ 24/25/30Hz
Scale Video Down from: 3840x2160p @ 24/25/30Hz to 1920x1080p @ 24/25/30Hz
Audio Output Format: Passthrough / 2ch PCM with Downmix selected
Audio Input Format: 5.1 Dolby Digital / 2ch Stereo PCM
Power Consumption: Max 5W
Power Supply: 5V DC
Material: Anodized Aluminium
Product Dimensions: 6.8 x 2.1 x 7.7 cm
Product Weight: 0.105 kg
Operating Temp Range: 0 to +35°C (32 to +95°F)
Storage Temp Range: -20°C to 60°C (-4°F to 140°F)
Humidity Range: 5 to 90% RH (no condensation)
Manufactured In: Great Britain by Pulse-Eight

PULSEEIGHT
AUDIO DELAY DEVICE



The P8-AD340 is a perfect solution to lip sync problems, with 20~ millisecond increments options from its 16-way selector you can delay the audio from 20-340ms. Delay stereo audio with a simple L/R phono input and output connection.

KEY FEATURES:

- The perfect solution to lip sync problems
- 20~ millisecond increments from its 16-way selector
- Delay the audio from 20-340ms
- Simple L/R phono input and output connection
- Compact design

OVERVIEW:



INPUT SIDE

OUTPUT SIDE

TECHNICAL SPECIFICATION:

- SKU:** P8-AD340
- Inputs:** Stereo L/R (Phono)
- Outputs:** Stereo L/R (Phono)
- Audio Input Format:** 2ch Stereo / Analogue line level
- Audio Output Format:** 2ch Stereo / Analogue line level
- Lip Sync Delay:** Up to 340ms
- Power Consumption:** Max 5W
- Power Supply:** 5V DC
- Material:** Anodized Aluminium
- Product Dimensions:** 6.2 x 2.3 x 7.7 cm
- Product Weight:** 0.10 kg
- Operating Temp Range:** 0 to +35°C (32 to +95°F)
- Storage Temp Range:** -20°C to 60°C (-4°F to 140°F)
- Operating Humidity Range:** 5 to 90% RH (no condensation)
- Safety & Emissions:** CE, FCC, RoHS
- Manufactured In:** Great Britain by Pulse-Eight

PULSEEIGHT
USB-CEC ADAPTER



Our USB - CEC Adapter works by connecting your home theatre PC to your home entertainment system's CEC bus. Everything you need is included with your order, to take full advantage of this product you will need to use one of the latest versions of Kodi from Kodi.tv.

ZOOM ROOMS INTEGRATION

You can conserve energy by turning off CEC-supported TVs in Zoom Rooms during non-work hours.

Specify a schedule for the devices in your Zoom Rooms so that they shut off or dim during times when the Zoom Room is not in use.

Connects between your TV and Zoom Room hardware, plug and play no software installation required.

** Internal CEC adapter for Intel Nuc also available*

- KIT INCLUDES:**
USB - CEC Adapter | 10cm HDMI Cable | 15cm USB Cable

TECHNICAL SPECIFICATION:

- SKU:** P8-USBCECv1
- Inputs:** HDMI
- Outputs:** HDMI
- Data Connection:** USB
- Product Dimensions:** 5 x 2.4 x 1.7 cm
- Product Weight:** 0.1 kg
- Material:** Plastic
- Manufactured In:** Great Britain by Pulse-Eight

CONCEPT WIRING GUIDE:





OPTO-COUPLING IR CABLES

AVAILABLE IN MONO>STEREO OR STEREO>STEREO OPTIONS



Avoid manually coupling IR transmitter and receiver buds together, provide a secure direct connection between IR control systems, such as Control4 and our neo series of matrices. Our generic Mono to Stereo solution will convert any IR signals between a mono transmitter and a stereo receiver.

KEY FEATURES:

- Avoids the requirement to manually couple IR transmitter and receiver buds together
- Provides a secure direct connection between IR control systems, such as Control4 or Elan g! and our neo series of matrices.
- Converts IR signals between a stereo transmitter and a mono receiver.

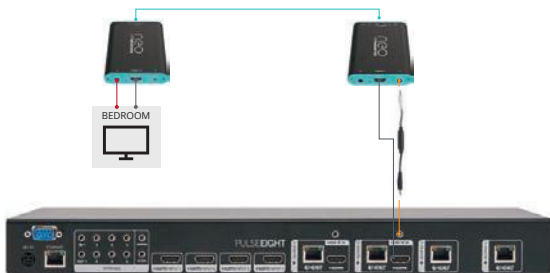
TECHNICAL SPECIFICATION:

- SKU:** P8-IR-OPTOCABLE
- Total Length:** 1m (other lengths available)
- Input:** IR Output from Control System/B&O TV
- Output:** IR Input to Matrix
- Max Input Voltage on Mono Jack:** 13V
- Max Frequency:** 100kHz
- Supported Control Systems:** Control4, RTI, Elan
- Operating Temp Range:** 0 to +35°C (32 to +95°F)
- Storage Temp Range:** -20°C to 60°C (-4°F to 140°F)
- Humidity Range:** 5 to 90% RH (no condensation)
- Manufactured In:** Great Britain by Pulse-Eight

ALSO AVAILABLE IN STEREO>STEREO FORMAT

CONCEPT WIRING GUIDES:

LINK EXTENDER TO MATRIX HDMI OUTPUT (Stereo>Stereo Variation)



LINK MATRIX AND A CONTROL SYSTEM (Stereo>Mono Variation)



WORKS WITH ALL MAJOR CONTROL BRANDS



OPTICAL HDMI CABLES



Removable adapter only available on 30 & 50 meter HDMI 2.0 variants

Run extended video lengths at higher resolutions than existing HDMI cable solutions up to 8K video at 48Gbps.

KEY FEATURES - HDMI 2.0 Cables:

- CPR EU Certified LSZH (Low Smoke Zero Halogen)
- 18Gbps Bandwidth
- HDR10/HDR10+/HLG/Dolby Vision
- 4K 4:4:4 UHD (3840 x 2160) at 60Hz resolution
- HDMI 2.0 Standards
- HDCP 2.3/CEC/ARC



SKU	DESCRIPTION
HDMI 2.0 Cables	
P8-OPT-HDMI AA-10	10 meter - HDMI-HDMI
P8-OPT-HDMI AA-15	15 meter - HDMI-HDMI
P8-OPT-HDMI AA-20	20 meter - HDMI-HDMI
P8-OPT-HDMI AD-30	30 meter - HDMI-HDMI Cable with removable adapter including pulling accessory
P8-OPT-HDMI AD-50	50 meter - HDMI-HDMI Cable with removable adapter including pulling accessory

KEY FEATURES - HDMI 2.1 Cables:

- CPR EU Certified LSZH (Low Smoke Zero Halogen)
- 48Gbps Bandwidth
- HDR10/HDR10+/HLG/Dolby Vision
- 8K 4:4:4 UHD (7680 x 4320) at 60Hz resolution
- HDMI 2.1 Standards
- HDCP 2.3/CEC/ARC/eARC



SKU	DESCRIPTION
HDMI 2.1 Cables	
P8-OPT2.1-HDMI AA-10	10 meter - HDMI-HDMI
P8-OPT2.1-HDMI AA-15	15 meter - HDMI-HDMI
P8-OPT2.1-HDMI AA-20	20 meter - HDMI-HDMI



AVAILABLE EXCLUSIVELY THROUGH DISTRIBUTORS

Find your local distributor at www.pulse-eight.com



SUPPORTED RESOLUTIONS & FORMATS

Product		Video Resolutions						HDCP		Video Distances							
		4K/60Hz 4:4:4	4K/60Hz 4:2:2	4K/60Hz 4:2:0	HDR 10 @ 60Hz	HDR 10 @ 24Hz	720p	1080i	1080p (+3D)	HDCP 2.2	HDCP 1.4	4K		1080p			
												100 meters	70 meters	40 meters	150* meters	100 meters	70 meters
Matrix	neo:X+ Matrix	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	neo:8a Matrix			●		●	●	●	●	●			●				●
	neo:4 Professional			●		●	●	●	●	●			●				●
	neo:4 Basic			●		●	●	●	●	●			●				●
Extender	neo:Ultra Ex Set	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	neo:Pro Ex Set			●		●	●	●	●	●			●	●		●	●
	neo:Lite Ex Set			●		●	●	●	●	●			●				●
Splitter	neo:1-4 HDBT Split			●		●	●	●	●	●			●				-
	neo:1-2 HDMI Split	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-
	neo:1-4 HDMI Split	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-	-

*1080p 150 meters long range on request (100 meters as standard)



SUPPORTED AUDIO FORMATS:

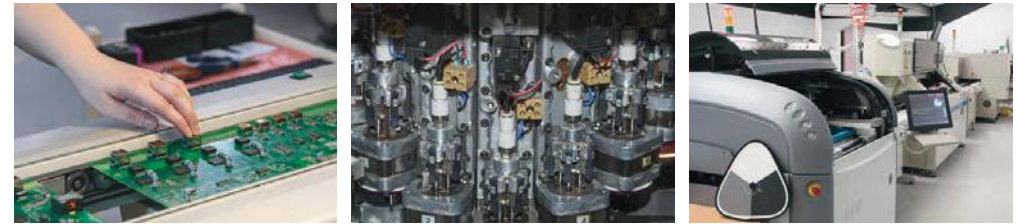
All products support the following

LPCM 2.0, LPCM 5.1
 LPCM 6.1, LPCM 7.1
 Dolby Digital 2.0
 Dolby Digital 5.1
 Dolby Digital EX 6.1
 Dolby Digital Plus 7.1
 Dolby TrueHD 5.1
 Dolby TrueHD 7.1
 Dolby Atmos 5.1.2

Dolby Atmos 5.1.4
 Dolby Atmos 7.1.2
 Dolby Atmos 7.1.4
 Dolby Atmos 9.1.2
 DTS 5.1, DTS-HD Master 5.1
 DTS-HD Master 7.1
 DTS 96/24 5.1
 DTS-ES Discrete 6.1
 DTS-ES Matrix 6.1



WARRANTY INFORMATION



Owning our own design, R&D and manufacturing facility in Britain gives us the unique opportunity to fully manage our entire production process ensuring the very best products are created for you and your clients. However from time to time things do go wrong therefore we back all of our products with a 3 year warranty that will cover all parts and labour should anything go wrong.

This warranty gives you the confidence that should the product develop a fault, we will support you. If a fault develops in the first 12 months, and our dedicated customer service team cannot resolve the issue, we will express ship you an advanced replacement unit reducing any potential downtime for you and your client to a minimum. After the first 12 months, should a product develop a fault in the second or third year, it will be returned to us for repair or replacement.

WANT TO OFFER EVEN MORE PEACE OF MIND TO YOUR CLIENTS?

3 Year Advanced Warranty Upgrade*

Offers you and your clients three years parts and labour guarantee however you will receive three years advanced replacement should the product develop a fault we are unable to resolve.

5 Year Extended Warranty Upgrade*

Offers you and your clients advanced replacement for three years parts and labour guarantee as above but additionally two more years return to base warranty.

Talk to your Pulse-Eight representative for warranty upgrade pricing

* Warranty upgrade only available for products purchased directly from Pulse-Eight



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