

neo:

PROFESSIONAL

P8-HDBT-L-FFMS44-22-KIT TECHNICAL SPECIFICATION

VIDEO DISTRIBUTION WITH BUILT IN CONTROL

Our flagship 4x4 HDBaseT matrix with 2 mirrored HDMI ports, includes 4 HDBaseT 70m Class B (Lite) PoH receivers.

neo:4 Professional represents the culmination of 4 years of hardware and software development at Pulse-Eight, our HDBaseT video matrix solutions are in tune with the times, designed to offer you exactly what you the professional AV installer and the end user needs.



DESIGNED
BUILT
SUPPORTED
IN THE UK



WEB
INTERFACE



REMOTE
MONITORING



libCEC



HDBaseT™
DIAGNOSTICS



4K + 1080P
SUPPORTED



PoH AS
STANDARD



3 YEAR
WARRANTY



WORKS WITH
ALEXA

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

C4DBT™
ASB

4K ULTRA HD

HDCP2.2

+44 (0)1202 413610 pulse-eight.com/neo

KEY FEATURES

- Ultra HD 4K Video Transmission (upto 340Mhz), 1080p, 3D
- 4x HDMI Inputs
- 4x HDBaseT Class B (Lite) Outputs
- 2x HDMI Outputs (Mirrored)
- HDMI-CEC Bi-Directional Control
- Bi-Directional IR Control
- Responsive Web Interface
- Automatic EDID Management
- Three year standard warranty



MATRIXOS

At the core of neo is MatrixOS the beating heart of our 340Mhz video processing unit. Providing you with instant access to all of your connected source devices in stunning Ultra HD 4K, 1080p or 3D. This powerhouse helps to create a "just works" solution, from dynamically generating EDIDs (to ensure the best video quality to every TV) right through to handling software updates for the HDBaseT link. With one goal in mind. Giving you the best possible video distribution system in the world.

CONTEXTUAL IR

4 in, 4 out, that's 16 possible combinations of your video. Historically matrixes have offered remotes with 8 or 16 buttons, requiring multiple presses to get video to the TV your watching. We thought this was an odd solution, given you already know which room you are in, so should the matrix! Our designers did away with this old concept and instead created Contextual IR, this reduces the number of buttons to just 4, one for each possible input. Whatever room your in, select 1, 2, 3, 4 and watch that source instantly.

HDMI-CEC

But then we asked, why use IR at all? Most TVs now support CEC, we are world experts in CEC technology with our libCEC and USB-CEC Adapters, so we've baked that technology into neo. Now you can just use your normal TV remote and press the "Source" key, each of your input devices will be listed and just select the one you want and the matrix will route the video automatically, even if the source does not support CEC itself. If however, the source device does support CEC, then you can continue to control it via your remote control as neo will automatically relay the necessary messages to your source device.

WEB INTERFACE

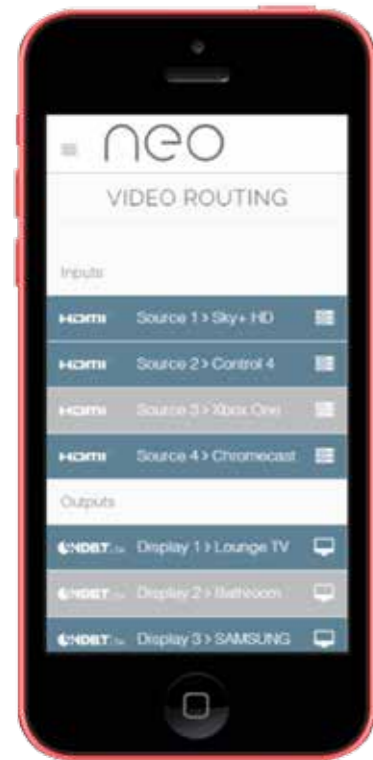
We want to give you the best experience possible, to do this, we think it's important you can access neo from any device, be it mobile, tablet or desktop PC and in any browser. We've done this with our responsive design, so it works with you and not the other way round. Our web interface is built directly on top of our REST/API, this means that whatever you can do on your phone, you can get your control system to do also and vice versa. There are no hidden tricks or special codes that require a magic moon dance to work. All of our documentation is free and available on our monitoring site.

MONITORING

It's important that you get video all the time, to help us do that every neo professional matrix 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, your installer or yourself can log into our cloud portal and see helpful diagnosis information (if you let them), fix problems remotely or tell you where you may have gone wrong in the installation and best of all this is free of charge and included with every matrix.

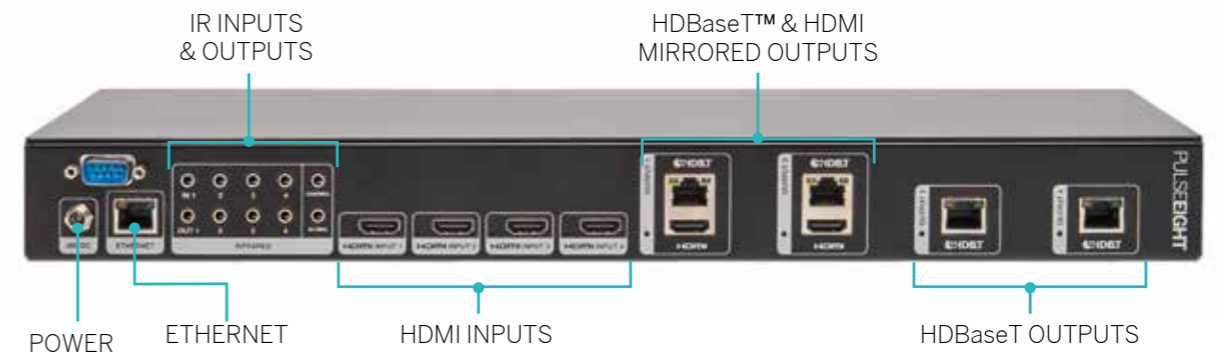
WORKS WITH ALEXA

With the neo Alexa skill enabled on your Amazon Echo or Amazon Dot you can use voice commands to control devices connected to a neo:4 Professional matrix. Fully certified by Amazon, this integration is native to Alexa and requires no configuration.



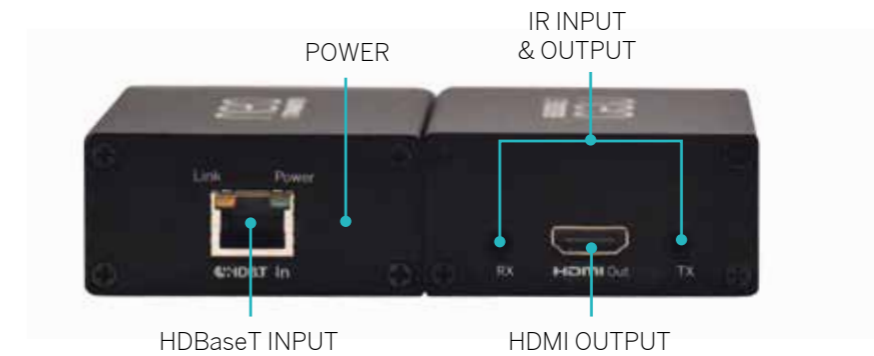
With MatrixOS you can control your matrix from any mobile device that is connected to the same network, simply by visiting www.gotomymatrix.com

COMPATIBLE DRIVERS



neo:4 PROFESSIONAL MATRIX

Input	4x HDMI 2.0a 4x IR Receiver	Control	1x Ethernet (IP Control Port) 1x RS232
Output	4x HDBaseT™ Class B (Lite) 2x HDMI 2.0a (Mirrored) 4x IR Emitter	Dimensions	(W) 43 cm / (H) 4.5 cm / (D) 14 cm
		Weight	2.05 kg



neo:LITE HDBaseT™ RECEIVERS

Input	1x HDBaseT™ Class B (Lite) 1x IR Receiver	Dimensions	(W) 10 cm / (H) 3.3 cm / (D) 6.5 cm
Output	1x HDMI 2.0a 1x IR Emitter	Weight	177g

IN THE BOX

neo:4 Professional Chassis	Country Specific Power Cord
P8-HDBT-L-RX-S 4x neo:Lite Receiver	P8-IRPACK 4x Infrared Blaster Cable Pack
Rack Mounting Kit	Installation Guide
48V External Power Supply with locking connector	P8-4REMOTE Context Sensitive 4 Button IR Remote

TECHNICAL DATA

Dimensions (WxHxD):	43 cm / 4.5 cm / 14 cm
Weight:	2.05kg
Material:	Smooth textured powder coated steel
Operating Temperature Range:	0 to +35°C (32 to +95°F)
Operating Humidity Range:	5 to 90 % RH (no condensation)
Power Supply:	Captive locking DC jack - 48V @ 2.5Amps
Power Consumption:	120W
Video Input:	4x HDMI 2.0a
Clock Speed:	Input: 340Mhz, Output: 340Mhz
Video Output:	4x HDBaseT Class B (Lite) 2x HDMI 2.0a (Mirrored)
Colour Supported:	4K/24bit, 1080p/36bit
3D Supported:	Up to 1080/24p - Frame packing/sequential (Blu-ray), Interlaced stereoscopic (satellite/cable broadcasts)
Additional:	HDMI 2.0a 3840 x 2160p 60Hz YCC 4:2:0 format pass-through
Encryption:	HDCP and HDCP 2.2
Supported Video Resolutions:	720p, 1080i, 1080p (+3D), 4k (30Hz) 4:4:4, 4k (50/60Hz) 4:2:0
Supported Audio Formats:	PCM 2.0, 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
ESD Protection:	± 8kV (Air-gap discharge) ± 4 kV (Contact discharge)
Surge Protection:	IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 25A (8/20µs)
Certification:	CE, FCC, RoHS

PULSE-EIGHT RESERVES THE RIGHT TO CHANGE PRODUCTS, INFORMATION AND SPECIFICATIONS WITHOUT NOTICE.

Products and specifications discussed herein are for reference purposes only. All information discussed herein is provided on an "AS IS" basis, without warranties of any kind. This document and all information discussed herein remain the sole and exclusive property of Pulse-Eight Limited. No license of any patent, copyright, mask work, trademark or any other intellectual property right is granted by one party to the other party under this document, by implication, estoppel or otherwise. Pulse-Eight products are not intended for use in life support, critical care, medical, safety equipment, or similar applications where product failure could result in loss of life or personal or physical harm, or any military or defence application, or any governmental procurement to which special terms or provisions may apply. All brand names, trademarks and registered trademarks belong to their respective owners.

© 2017 Pulse-Eight Limited. All rights reserved.



Pulse-Eight Limited . 8-12 Alder Hills . Poole . Dorset . BH12 4AL . UK
 sales@pulse-eight.com | +44 (0)1202 413610
 pulse-eight.com