

TECHNICAL SPECIFICATIONS

# neo:X+ 8x10 HDBaseT Video & Audio Matrix

8 HDMI INPUTS | 8 HDBASET CLASS C OUTPUTS | 2 HDMI OUTPUTS | FULL AUDIO MATRIX



### ULTRA (Class C + DSC) Cat5e/6 Cable Performance Chart

| Cat5e cable 4K |            | Cat6 4K    |            | Cat5e/6 cable HD |             |             |             |             |             |              |              |              |              |              |              |
|----------------|------------|------------|------------|------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0m (0ft)       | 10m (32ft) | 20m (65ft) | 30m (98ft) | 40m (131ft)      | 50m (164ft) | 60m (197ft) | 70m (230ft) | 80m (262ft) | 90m (295ft) | 100m (328ft) | 110m (360ft) | 120m (393ft) | 130m (427ft) | 140m (459ft) | 150m (492ft) |



### FULL INTEGRATED AUDIO MATRIX

With 10 built-in audio output zones and 4 audio input zones, the neo:X+ offers a full audio matrix, featuring intuitive audio control options such as lip sync delay and zone locking plus ARC (audio return channel).



### REMOTE MONITORING

Keep in contact with the matrix at any time, from anywhere with our cloud management service. Simply log into our cloud portal and see helpful diagnosis information. All of this is free of charge with every matrix!



### WEB INTERFACE

An end-user friendly interface including a remote that can simply be accessed via [www.gotomymatrix.com](http://www.gotomymatrix.com) in your browser, or download the Android app on any device connected to the same network.



### libCEC

With CEC you can use your normal TV remote to control and select source devices. Being the world experts in CEC technology means we give you maximum control of your devices.



### SET TOP BOX IP CONTROL

You can now control set top boxes via CEC! Working with Sky HD, Sky Q, Tivo/Virgin, Dish Hopper and Kodi, this type of IP Based control is a first for a matrix and removes the need for any IR control in your system.



### BUILT IN BRITAIN

All of our matrix range is not only designed but manufactured and supported by ourselves, all from our 24,000 sq ft facility in Poole, Dorset in the UK.



### 3 YEAR WARRANTY

A standard 3 year warranty is included as standard, whereby if at any point during the warranty the unit becomes faulty you can return it back to us for repair. However, you may wish to take advantage of our advanced warranty or extended 5 year warranty options.

## KEY FEATURES

- Ultra HD 4K Video Transmission (upto 340Mhz), 1080p, 3D
- Extend 4K up to 100\* meters
- Extend 1080p up to 150\* meters
- 8 x HDMI Inputs
- 4 Audio Input Zones
- 8 x HDBaseT Class C + DSC (Ultra) Outputs
- 2x HDMI Outputs
- 10 Audio Output Zones
- Amazon Alexa Voice Control
- libCEC for HDMI-CEC Bi-Directional Control
- Bi-Directional IR Control
- Set Top Box IP Control
- Responsive Web Interface
- DSC support - for HDR and 4K/60 4:4:4 , 8 bit or 4K/60 4:2:2, 1 2bit over HDBaseT™
- ARC (Audio Return Channel)
- Audio breakout of input sources

\* 4K up to 100 meters over Cat6 or 70 meters over Cat5e cable. 1080p up to 150 meters long range on request (100 meters as standard)

## KIT INCLUDES:

- neo:X+ Chassis (3U size)
- 8x neo:Ultra PoH Receivers
- Country Specific Power Cord
- 8x Infrared Blaster Cable Pack
- Rack Ears
- Context Sensitive 8 Button IR Remote
- Installation Guide



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|--|--|
| <b>SKU:</b>                              | P8-HDBT2-U-FFMJ1210-KIT  |
| <b>HDMI Inputs:</b>                      | 8  |
| <b>HDBaseT Outputs:</b>                  | 8x HDBaseT Class C + DSC   |
| <b>HDMI Outputs:</b>                     | 2  |
| <b>Audio Inputs:</b>                     | 4 Zones (Optical Audio or Digital Coax)  |
| <b>Audio Outputs:</b>                    | 10 Zones (Stereo L/R, Optical Audio or Digital Coax)   |
| <b>Max HDBaseT Cable Distance 4K:</b>    | 100* meters  |
| <b>Max HDBaseT Cable Distance 1080p:</b> | 150* meters  |
| <b>HDBaseT Recommended Cable:</b>        | Cat5e or greater (Cat5e up to 70m for 4K. Cat6 or greater will achieve full rated distances)   |
| <b>Colour Supported:</b>                 | 4K: 12bit, 1080p: 12bit  |
| <b>TMDS Clock Speed:</b>                 | 600Mhz   |
| <b>Max Bandwidth:</b>                    | 18Gbps   |
| <b>Encryption:</b>                       | HDCP 1.4 and HDCP 2.2  |
| <b>Supported Video Resolutions:</b>      | All 4K formats up to 4:4:4 @ 60Hz including 4:2:2 60Hz HDR 10, 720p, 1080i, 1080p (+3D)  |
| <b>Supported Audio Formats:</b>          | 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 |
| <b>PoH (Power over HDBaseT):</b>         | 8x neo:Ultra PoH Receivers Included  |
| <b>Infrared:</b>                         | Bi-Directional   |
| <b>CEC Control:</b>                      | Full   |
| <b>Voice Control:</b>                    | Alexa  |
| <b>Set Top Box IP Control:</b>           | Yes  |
| <b>Monitoring:</b>                       | Real Time Remote Monitoring Portal   |
| <b>Third Party Control Support:</b>      | Yes - Including Control4, Crestron, Elan g!, RTI, Savant, URC  |
| <b>ARC (Audio Return Channel):</b>       | Yes  |
| <b>DSC (Display Stream Compression):</b> | Yes  |
| <b>Power Supply:</b>                     | 1 x IEC C14 Inlet - 100-240V 4.0/2.0A 50/60Hz  |
| <b>Power Consumption:</b>                | Max 2Amps @ 240V   |
| <b>ESD Protection:</b>                   | ± 8kV (Air-gap discharge) ± 4 kV (Contact discharge)   |
| <b>Surge Protection:</b>                 | IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 25A (8/20µs)  |
| <b>Material:</b>                         | Brushed Aluminium (Anodised)   |
| <b>Product Dimensions:</b>               | 44 x 13.2 x 31.6 cm (Matrix)   |
| <b>Product Weight:</b>                   | 4.83 kg (Matrix)   |
| <b>Operating Temp Range:</b>             | 0 to +35°C (32 to +95°F)   |
| <b>Operating Humidity Range:</b>         | 5 to 90% RH (no condensation)  |
| <b>Manufactured In:</b>                  | Great Britain by Pulse-Eight   |
| <b>Certification:</b>                    | CE, FCC, RoHS  |

\* 4K up to 100 meters over Cat6 or 70 meters over Cat5e cable. 1080p up to 150 meters long range on request (100 meters as standard)

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