



PRODUCT GUIDE 2020

Welcome

The passing of a decade is always occasion for reflecting. It began with our range of innovative Cat X mini extenders, which introduced the AV industry to our easy-to-use devices that enhanced the user's experience, whilst making installation simple.

We embark into 2020 with a vision to continue innovating new products, whilst delivering comprehensive service with responsive support. Our focus is to streamline signal distribution, through a new range of single gang keypads, meeting room solutions, AVoIP and video wall controllers, which broadens our footprint within the AV connectivity and distribution sector.

Our dedicated approach to empowering SY staff to fully understand our customer's needs and goals before recommending a solution has strengthened our reputation within the AV industry, and has enabled the Company to continue delivering resilient performance.

I would like to thank our customers for choosing SY, none of our achievements would have been possible without your unwavering support and valuable insights. We are truly grateful to you for giving us the opportunity to grow.

Sirous Yazdanian BSc. MSc.



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Your Connected World

Since our inception in 1983, SY Electronics has built a reputation for delivering flexible yet affordable professional AV solutions. Our philosophy of creating functional and reliable tools appeals to system integrators within the residential, commercial, education, healthcare and corporate AV sectors.

At our core SY is an engineering company and our philosophy is best described in our motto 'Solutions by Design', so we appreciate that when planning installations, every facet must be taken into consideration whether you want to connect, control, scale, switch, distribute, extend, de-embed, split or multiply transmission signals. This is why we continue to foster a "customer-first" mindset throughout the company with a high level of service and support, which AV integrators have come to expect from SY.

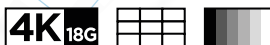
"SY Electronics manufacture and supply equipment we need, but they don't just support us post sales; they are happy to knowledgeably explain how their equipment works in conjunction with how we are trying to use it, and once or twice have even adapted their equipment to better facilitate what we are trying to achieve."

D J Willrich Ltd

Our vision is to continually redefine design innovation, whilst our commitment to value and creating differentiation keeps **SY - The Centre of Your Connected World**.

VIDEO WALL PROCESSORS

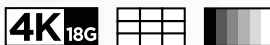
VWP-24-18G



NEW FOR
2020



VWP-29-18G



NEW FOR
2020



High resolution Video-Wall Processors – HDMI 2.0 18G

These Dual input Video-Wall processors can accept a wide range of HDMI inputs up to 4K60 4:4:4. All outputs can be scaled to target displays' optimum resolution. These units can be operated as stand alone or cascaded several times to accommodate very large video-wall configurations.

- **Inputs:** 2x HDMI 2.0 (All resolutions up to 4K60 4:4:4)
- **Outputs:** 4/9x HDMI 2.0 (Resolutions up to 4K60 4:4:4)
- **Bezel compensation** – Quick and easy
- **Screen Stitching** – Second video to any display within VW
- **Dynamic Single or Multiple Video-Wall capability**
- **Cascade or Daisy-Chain** – Can create large VW (8x8)
- **Pre-set configurations** – Simple recall of saved VW effects
- **Extensive EDID and HDCP Management**
- **Test Pattern and OSD labels** to help installation
- **RS232 and TCP/IP control**

MATRIX - HDMI

SMS-44-18G

4K18G



SEAMLESS



NEW FOR
2020



4x4 HDMI 2.0 Seamless Matrix with full Scaler and Video Wall Mode

SMS-44-18G is a powerful 4x4 HDMI 2.0 (4K60 4:4:4) Seamless Matrix, with accurate 4K scaling per output. Benefitting from totally independent input and output resolutions/refresh rates (up to 4K60), affirms optimum display per output at rapid switching speeds, with HDCP control and HDR compatibility. Mixed Video-Wall and Matrix facility ensures maximum flexibility. Both the Front Panel and each input or output can be locked for tamper-proofing. The de-embedded audio outputs can be directed from the video outputs or video inputs. SMS-44-18G can be controlled from Front Panel, IR, RS232, and LAN.

- 4x4 HDMI 2.0 (18G) Seamless Scaler Matrix
- Supports all resolutions up to 4K60 4:4:4 (18G)
- Seamless switching, and full scaler per output
- Flexible Video-Wall capability
- Test Pattern generator per output
- 4x L/R audio embed
- 4x Stereo/Toslink & Balanced Stereo De-embed
- 4x4 IR Matrix
- Extensive EDID and HDCP Management
- Control: Front Panel, IR, RS232, LAN

SMS-88-18G

4K18G



SEAMLESS



8x8 HDMI 2.0 Seamless Matrix with full Scaler and Video Wall Mode

SMS-88-18G is a very powerful 8x8 HDMI 2.0 (4K60 4:4:4) Seamless Matrix, with accurate 4K scaling per output. Benefitting from totally independent input and output resolutions/refresh rates (up to 4K60), affirms optimum display per output at rapid switching speeds, with HDCP control and HDR compatibility. Mixed Video-Wall and Matrix facility ensures maximum flexibility. Both the Front Panel and each input or output can be locked for tamper-proofing. Supports 8x external audio embedding facility, as well as 8x de-embedded L/R audio outputs. SMS-88-18G can be controlled from Front Panel, IR, RS232, and LAN.

- 8x8 HDMI 2.0 (18G) Seamless Scaler Matrix
- Supports resolutions up to 4K60 4:4:4 (18G)
- Seamless switching, and full scaler per output
- Flexible Video-Wall capability
- 8x embed and 8x L/R de-embed facility
- 8x8 IR matrix
- Extensive EDID Management
- Control: Front Panel, IR, RS232, LAN
- Flexible Mixed Video-Wall capability
- Individual input or output locking
- 1U 19" rack mount

MATRIX - HDMI

MS44-18G

4K_{18G}



4x4 HDMI 2.0 Matrix

HDMI 2.0 4K60 4:4:4 (18Gbps) 4x4 Matrix Switcher, allowing any source to any of its four outputs, simultaneously. The compact and versatile MS44-18G possesses digital audio de-embedding, extensive EDID management and can be controlled via Front Panel, IR, RS232 and LAN.

- 4x4 HDMI 2.0 (18G) Matrix
- HDMI 2.0 4K60 4:4:4 and HDCP 2.2 compliant
- 4x coax S/PDIF Audio Outputs
- Supports Dolby True HD & DTS-HD master audio
- Extensive EDID Management
- Control: Front Panel, IR, RS232, and LAN

MS42-18G

4K_{18G}



4x2 HDMI 2.0 Scaler Matrix

A superb HDMI 2.0b 4K60 4:4:4 Scaler Matrix with 18Gbps signal bandwidth, supporting HDR and HLG. Each output can be scaled from 4K to 1080p with HDCP 2.2 to HDCP 1.4 conversion, ensuring compatibility with HD monitors. Audio de-embedding is provided for each output, with stereo L/R, as well as optical Toslink which also supports Dolby Vision. Auto option ensures automatic input selection, as well as facilitating each display to be automatically turned on/off, using CEC or RS232 control.

- 4x2 HDMI 2.0 (18Gbps) Scaler Matrix
- All resolutions up to 4K60 4:4:4 (18G)
- Output Modes: 4K to 1080p scaler, Auto, bypass, HDBT mode
- Optical and L/R de-embedded audio per output
- Extensive EDID management
- Auto Selection and display on/off option
- Control: Front panel, IR, RS232, LAN

MSUHD-88-18G

4K_{18G}



8x8 HDMI 2.0 Matrix with up/down scaler

This 8x8 HDMI 2.0 4K60 4:4:4 Matrix has 4K to HD and HD to 4K scaling for each output. It allows any source (Blu-Ray player, satellite receiver, gaming systems, etc) to be shown on any of the eight displays simultaneously. The output signals are amplified and equalised for the best HDMI signal without loss of quality. With 4K to HD and HD to 4K scaling for each output and a bandwidth speed of 18Gbps, the MSUHD-88 can easily connect both 4K and legacy HD projectors/displays without any compromise.

- 8x8 HDMI 2.0 (18Gbps) Matrix
- HDMI 2.0, 4K60 4:4:4 and HDCP 2.2 compliant
- 4K, 1080p up/down scaler per each output
- 8x L/R and 2x S/PDIF de-embed audio outputs
- Extensive EDID Management
- Control: Front panel, IR, RS232, LAN

MUHD-44**MUHD-88****4K₃₀**

4x4/8x8 UHD Matrix with Audio De-embedders

The MUHD-44/88 is a cost-effective Distribution Matrix, ensuring any source (Blu Ray player, HD DVD player, satellite receiver, game station, etc) to be shown on any of the displays simultaneously. The output signals are amplified and equalised for the best HDMI quality. HDCP and EDID management ensures stable installation, with L/R de-embedded audio per output. Can receive commands via RS232/LAN.

- 4x4/8x8 cost effective HDMI 1.4 matrix
- Supports resolutions up to 4K @60Hz 4:2:0
- Supports HDCP 2.2 with auto detection

- De-embedded L/R audio per output
- Simple interface, Powerful EDID management
- Control: Front Panel, IR, RS232, and LAN

APOLLO 4K+**SEAMLESS**

4K Multi-format Seamless Matrix with Quad/PIP view

The Apollo 4K+ is an advanced HD/UHD Multi-format 4x2 (Input 4x HDMI, 4x YPbPr, 4x AV, 4x VGA/Output, 2x HDMI) Seamless Matrix, Multi-Viewer (versatile PIP and 4K Quad View). The 16 multi-format HDMI, VGA, component and composite inputs can handle all video signals up to 1920x1200 WUXGA. The unit can be controlled easily from the Front Panel, RS232, Ethernet and store up to 20 pre-set configurations. Seamless switching is less than one frame between input groups, quad-view or multi-view. The device can be used as a 4x2 seamless Matrix, 12 input with dual output Multi-format presentation switcher, 4K Quad viewer or a programmable Multi-viewer (up to 4 PIP/POP).

- Seamless 4x2 Matrix with Multi-view and PIP
- 4K Quad-view option
- Programmable Multi-Viewer Video Processor
- Input 4x HDMI, 4x YPbPr, 4x AV, 4x VGA

- Output 2x HDMI
- 2 L/R breakaway de-embedded audio outputs
- Extensive EDID management
- Control: Front Panel, RS232, LAN

MATRIX - HDBT

MUBT-44EC-SET

4K₃₀



4x4 UHD HDBaseT Matrix with HDBT receivers

The MUBT-44EC-Set is a cost-effective 4K30 HDBaseT Distribution Matrix with 3x HDBaseT and 1x HDMI outputs. Supplied complete with HDBaseT receivers and associated accessories. Only the matrix unit needs to be powered, as all the receivers are powered over the Cat 6 (PoC). Inputs can be selected by either the Front Panel buttons, IR, RS232, or Web GUI. The selected source can be routed to any HDBaseT output, as well as the local HDMI output. 4K30 video is transmitted up to 40m, or 1080p @70m. This rack mountable matrix supports bi-directional IR and is HDCP 1.4/2.2 compliant, with comprehensive EDID management.

- 3x HDBaseT and 1x HDMI outputs
- Accepts all resolutions up to 4K @60Hz 4:2:0
- Transmits 4K30 to 40m and 1080p to 70m
- HDBaseT Receivers are powered by the matrix
- Supports HDMI 1.4 & HDCP 2.2

- L/R de-embedded audio
- Supports Bi-directional IR Control
- Extensive EDID management
- Control: Front panel, IR, RS232, LAN

MUBT-88EC-SET

4K₃₀



8x8 UHD HDBaseT Matrix with HDBT receivers

The MUBT-88EC-Set is a cost-effective 4K30 HDBaseT Distribution Matrix with 7 HDBaseT and 1 HDMI outputs, supplied complete with HDBaseT receivers and associated accessories. Only the matrix unit needs to be powered, as all the receivers are powered over the Cat 6 (PoC). Inputs can be selected by either the Front Panel buttons, IR, RS232, or Web GUI. The selected source can be routed to any HDBaseT output, as well as the local HDMI output. 4K30 video is transmitted up to 40m, or 1080p @70m. This rack mountable matrix supports bi-directional IR and is HDCP 1.4/2.2 compliant, with comprehensive EDID management.

- 7x HDBaseT and 1x HDMI outputs
- Accepts all resolutions up to 4K @60Hz 4:2:0
- Transmits 4K30 to 40m and 1080p to 70m
- HDBaseT Receivers are powered by the matrix
- Supports HDMI 1.4 & HDCP 2.2

- L/R de-embedded audio
- Supports Bi-directional IR Control
- Extensive EDID management
- Control: Front panel, IR, RS232, LAN

MUHDBT-44P

4K₃₀



4x4 HDBaseT Matrix with IR and RS232

The MUHDBT-44 Matrix provides 2 mirrored HDMI outputs as well as 8x HDBaseT outputs with bi-directional IR & RS232, as well as PoC. The central RS232 port can distribute commands down any of the HDBT outputs. De-embedded audio per output, as well as extensive EDID management are also effective features. These professional units are well built and can be controlled via Front Panel, IR, RS232 or LAN.

- 4x HDBT + 2x Mirrored HDMI outputs
- Supports resolutions up to 4K @60Hz 4:2:0
- Transmits 4K30 to 40m and 1080p to 70m
- Remote Receivers are powered by the matrix
- Can inject RS232 signals into Receivers via LAN
- Support Bi-directional IR and RS232
- De-embedded audio per output
- Extensive EDID management
- Control: Front panel, IR, RS232, LAN

MUHDBT-88P

4K₃₀



8x8 HDBaseT Matrix with IR and RS232

The MUHDBT-88 Matrix provides 4 mirrored HDMI outputs as well as 8 HDBaseT outputs with bi-directional IR & RS232 as well as PoC. The central RS232 port can distribute commands down any of the HDBT outputs. De-embedded audio per output, as well as extensive EDID management are also effective features. These professional units are well built and can be controlled via Front Panel, IR, RS232 or LAN.

- 8x HDBT + 4x Mirrored HDMI
- Supports resolutions up to 4K @60Hz 4:2:0
- Transmits 4K30 to 40m and 1080p to 70m
- Remote Receivers are powered by the matrix
- Can inject RS232 signals into Receivers via LAN
- Support Bi-directional IR and RS232
- De-embedded audio per output
- Extensive EDID management
- Control: Front panel, IR, RS232, LAN

MATRIX - MODULAR

MMU Series

4K₃₀

SEAMLESS



MMU Series - Available in 8x8, 16x16, 32x32, 64x64 & 144x144 Multi-format Modular 4K30 Matrices

The MMU series of Modular Matrices are HDMI 1.4 4K60 4:2:0 (10.2Gbps) compatible, with a wide range of hot-pluggable input and output cards. These quad cards are available as standard 4K or as 1080p Seamless, which makes them formidable in many applications. The Multi-format transcoding is automatic, allowing any input source format to be connected to any number of different format outputs.

- Supports resolutions up to 4K @60Hz 4:2:0
- Multi-format Transcoding Matrix
- Range of input/output cards - Any to Any: HDMI, DVI, HDBaseT, SDI, VGA, Fibre optic
- Seamless scaling (1080p) card options
- Hot Pluggable quad cards
- Pixel accurate re-clocking
- Extensive EDID management
- Auto switching dual input power
- Control: Front panel, IR, RS232, LAN

Model Numbers:

SY-MMU-88A	8 x 8 UHD Matrix
SY-MMU-1616	16 x 16 UHD Matrix
SY-MMU-3232	32 x 32 UHD Matrix
SY-MMU-6464	64 x 64 UHD Matrix
SY-MMU-144144	144 x 144 UHD Matrix

IO Cards



Input Cards

Model Numbers:

MC4UHD-I	4 way HDMI + Audio
MC4UBT-I	4 way 4K HDBT + RS232 + Audio
MC4UF-I	4 way 4K Fibre
MC4HDS-I	4 way Seamless HDMI + Audio
MC4HBTS-I	4 way Seamless HDBT + RS232 + Audio
MC4FS-I	4 way Seamless Fibre
MC4DVS-I	4 way Seamless DVI
MC4SDS-I	4 way Seamless SDI
MC4VGA-I	4 way Seamless VGA + Audio



Output Cards

MC4UHD-O	4 way HDMI + Audio
MC4UBT-O	4 way 4K HDBT + RS232 + Audio
MC4UF-O	4 way 4K Fibre
MC4HDS-O	4 way Seamless HDMI + Audio
MC4HBTS-O	4 way Seamless HDBT + RS232 + Audio
MC4FS-O	4 way Seamless Fibre
MC4DVS-O	4 way Seamless DVI
MC4SDS-O	4 way Seamless SDI
MC4VGA-O	4 way Seamless VGA + Audio

PRESENTATION SWITCHERS

MSU-121



NEW FOR
2020



12 input Presentation Switcher

A cost effective 4K Presentation Switcher with output scaling resolutions up to 1920x1200. With 10x 4K HDMI as well as 2x VGA inputs, this switcher can accommodate a variety of installations. The MSU-121 is a smart choice for education and corporate environments.

- Inputs: 10x HDMI (4K30) and 2x VGA (1920x1200)
- Scaled Outputs: 2x Mirrored HDMI (1080p Max)
- Supports HDCP 1.4 with cascade management
- Extensive EDID
- De-embedded Audio - Stereo jack + balanced output
- Front panel Lock/Unlock
- Contact closure selection & Tally out
- RS232 and TCP/IP control

SMFS-81-18G

4K18G



SEAMLESS



8 input Multi-Format Seamless Presentation Switcher with Full Up/Down Scaler

This Seamless Multi-Format 18G Switcher has a powerful Scaler engine, with totally independent input and output resolution and refresh rates up to 4K60 4:4:4, and HDCP control. The 6x HDMI, 1x DisplayPort and 1x VGA (or component/composite) inputs are scaled to the mirrored HDMI and HDBaseT output (4K30 to 40m, 1080p to 70m - using Slim70 Edge Rx). The unit allows for de-embedded stereo audio output, as well as embedding any external audio on to the selected input, with line or microphone (phantom power available) facility.

- Seamless switching regardless of input resolution
- 6x HDMI 2.0, 1x DisplayPort 1.2, 1x VGA inputs
- Input and output resolutions up to 4K60
- Output Scaler up to 4K60 4:4:4 (18Gbps)
- HDBaseT output to 70m @1080p or 100m @4K30
- Extensive audio embedding and microphone functions
- Balanced stereo Line out & power amplifier
- Extensive EDID management and HDCP control
- Control: Front panel, IR, RS232, LAN (GUI)

PRESENTATION SWITCHERS

MFS51-18G

4K_{18G}



5 input Multi-Format Presentation Switcher with Full Up/Down Scaler

The MFS51-18G is a powerful & flexible 4K Scaling Presentation Switcher with input resolutions up to HDMI 2.0 4K60 4:4:4 (18G) and output at different resolutions up to 4K30. It offers fast switching between the 3x HDMI, 1x DisplayPort and 1x VGA (or component/composite) inputs with scaled mirrored video outputs as HDMI and HDBaseT (4K30 to 40m, 1080p to 70m - using Slim70 Edge Rx). The unit allows for de-embedded stereo audio output, as well as embedding any external audio on to the selected input with line or microphone (phantom power available) facility.

- Supports inputs up to HDMI 2.0 4K60 (18G)
- 3x HDMI 2.0, 1x DisplayPort 1.2, 1x VGA inputs
- Full up/down scaler to 4K30
- HDCP 1.4 & 2.2 compliant
- HDBaseT output to 70m @1080p or 40m @4K30
- Extensive audio embedding/de-embedding and microphone functions inc. auto ducking
- Auto switch and monitor on/off options
- Easy EDID and HDCP Management
- Control: Front panel, IR, RS232, LAN, Contact closure

MS61-18G

4K_{18G}



Multi-Format Switcher - 3x HDMI, 1x DisplayPort, 1x Type-C, 1x VGA

A cost effective and feature rich 18G Multi-Format Switcher. Featuring 3x HDMI 2.0, 1x DisplayPort, 1x USB-Type-C and 1x VGA input connections. The VGA input can be scaled up to 1920x1200. Using CEC protocol, display functions such as on/off and volume can be adjusted via Front Panel or RS232/LAN commands.

- HDMI 2.0, 4K60 4:4:4 (18Gbps) switcher
- 3x HDMI, 1x DisplayPort, 1x USB-C, 1x VGA
- VGA Scaler up to 1920x1200
- De-embedded L/R and optical audio
- Extensive EDID management
- Display on/off and volume control
- Control: Front panel, IR, RS232, LAN

HDS41A-18G

4K_{18G}

ARC



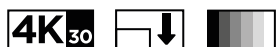
4x1 HDMI 2.0 Switcher with ARC

A 4 input HDMI 2.0 switcher with de-embedded audio and ARC facility (input 4). On Auto Mode, when a new HDMI input is detected, that input is automatically selected. HDMI 2.0, HDCP 2.2 and CEC compliant. This switcher can be controlled from the Front Panel, RS232, or the included IR Controller.

- HDMI 2.0, 4K60 4:4:4 (18Gbps) switcher
- 4x HDMI inputs, and 1x HDMI output
- De-embedded L/R audio
- Auto/Manual selection options
- Extensive EDID management
- Control: Front panel, IR, RS232

MULTI-FORMAT SWITCHERS

MFS31-H



NEW FOR
2020



Dual HDBaseT + HDMI Fast Switcher

The MFS-31H can switch between 2x HDBaseT and 1x HDMI video inputs, to a single HDMI output. The remote transmitters can be powered by MFS31-H (iPoC) using a single Cat 6 cable up to 70m. The unit is feature packed with a Test Pattern Generator, Cat 6 cable length measurement, EDID management, Audio de-embedding and more.

- 2x HDBT inputs with iPoC – 70m @1080p or 40m @4K
- 1x HDMI 2.0 input – All HDMI resolutions to 4K60 4:4:4
- HDMI output – All HDMI resolutions to 4K60 4:4:4
- Input HDMI Scaler – 4K60 4:4:4 to 4K60 4:2:0/1080p
- Test Pattern Generator, EDID management
- De-embedded audio at Receiver
- Bi-directional RS232 and IR
- iPoC – Single 48V PSU with intelligent PoC

MFT-31C



Wall Mounted Multi-Format HDMI and USB-C Switcher Transmitter

A function packed 4K60 4:2:0 Multi-format HDBaseT transmitter, with 2x HDMI and 1x Type-C USB inputs, which can be manually or auto switched. The MFT-31C can be powered by the receiver or can power the receiver by Cat 6 cable.

- 2x HDMI and 1x USB Type-C input
- HDBaseT output to 70m @1080p or 40m @4K30
- Bi-directional PoC
- HDCP 2.2 and CEC compatible
- IR and bi-directional RS232
- Auto Selection and display on/off options
- Extensive EDID management
- UK and Euro double gang options

MFT-31V



Wall Mounted Multi-Format HDMI and VGA Switcher Transmitter

A function packed 4K60 4:2:0 Multi-format HDBaseT transmitter, with 2x HDMI and 1x VGA inputs. The 4K scaler facility ensures optimum display compatibility. The MFT-31V can be powered by the receiver or can power the receiver via Cat 6 cable. The remote display can be manually or automatically switched on/off using CEC or RS232.

- 2x HDMI and 1x VGA input
- HDBaseT output to 70m @1080p or 40m @4K30
- 4K30 Up/Down scaler
- Bi-directional PoC
- HDCP 2.2 and CEC compatible
- IR and bi-directional RS232
- Auto Selection and display on/off options
- UK and Euro double gang options

MULTI-FORMAT SWITCHERS

MFT-62

4K₃₀



6 input 4K Multi-Format Switcher Transmitter

The MFT62 is a compact 4K Multi-Format Switcher with a built-in HDBaseT Transmitter. The unit has 6 Multi-format inputs, matrixed to independent HDBaseT and HDMI outputs. The MFT62-SET is supplied with the HDBT Slim70SE Edge Rx, enabling broadcasts up to 70m @1080p or 40m @4K30 using a single Cat 6 cable. This set-up is well suited to classroom or conference room situations. The inputs can be independently selected for either of the outputs using the Front Panel buttons, IR, RS232 or external contact closures.

- 4x HDMI, 1x DisplayPort, 1x VGA inputs
- Independent HDMI and HDBaseT Matrix outputs
- HDBaseT PoC powers remote Slim 70 Receiver
- HDBaseT output to 70m @1080p or 40m @4K30
- Auto switch and monitor on/off options
- Bi-directional IR and RS232 pass-through
- Independent RS232-CTL for device control
- L/R de-embedded audio
- Extensive EDID Management
- Control: Front Panel, IR, RS232, contact closure

MFT-21

4K₃₀



4K HDMI and VGA Multi-Format Switcher Transmitter

The MFT21-Set is a compact 4K Multi-Format Switcher Transmitter, consisting of 1x HDMI and 1x VGA with HDBaseT output (PoC). The MFT21-SET is supplied with the HDBT Slim70SE Edge Rx, enabling broadcasts up to 70m @1080p or 40m @4K30 using a single Cat 6 cable. Ideal for classroom or conference room environments, where either a HDMI or VGA signal needs connecting to a display, such as a large screen or projector.

- 1x HDMI and 1x VGA input
- HDBaseT PoC powers remote Slim 70 Receiver
- HDBaseT output to 70m @1080p or 40m @4K30
- Bi-directional IR and RS232 pass-through
- Independent RS232-CTL for device control
- L/R de-embedded audio
- Extensive EDID Management
- Control: Front Panel, IR, RS232, contact closure

EXTENDERS - VIDEO OVER IP/FIBRE

E400U

4K₃₀



SEAMLESS



4K HDMI over IP Matrix/Video-Wall solution

An extremely flexible and versatile video-over IP solution offering many features and capabilities, the E400U is the product of choice for a variety of projects. The E400U provides a unified AV platform over IP network with uncompromising flawless video quality - Matrix, Video-Wall, Distribution, KVM. Seamless Switching Matrix topology with a limitless number of sources & displays. Multiple video-walls (up to 8x8) with dynamic multi-region layouts and video rotation can be implemented with ease. Breakaway Audio, RS232, IR and USB capability provides an uncompromised solution. Transmitters and receivers can be powered by the PoE Ethernet Switch for a simple and quick installation. No specialist networking knowledge is required with the Auto-discovery feature and easy to follow video management tool, enabling customisation and large scale implementations with ease. The E400U is the perfect solution for small and large scale installation such as: Sports Bars, Digital Signage, Hospitality, Healthcare, and Command Control.

- Distribute, Matrix, Video-wall & KVM system over IP
- 4K60 4:2:0, 4K30 4:4:4, HDR 10/12 and HDCP 1.4 supported
- Very low video latency and visually loss-less
- Seamless Matrix Switching
- Flexible Matrix mode - Limitless sources and displays
- Video-Wall Mode - up to 8x8 displays
- Receiver up/down Video Scaling/Rotation
- One to One or One to Many Extender - with KVM options
- USB 2.0 KVM function (Keyboard, Mouse, Touch-screen, Storage)
- Wide band IR and Bi-directional RS232 to 115.2Kb
- Flexible and extensive EDID management
- Support LPCM, Dolby HD, DTS and DTS-HD Audio
- PoE - Transmitters and receivers powered by the LAN switch
- Built in web-style configuration
- Simple & easy to install with the PC configuration interface

UFM-4K

4K₃₀



Mini 4K over Fibre Extender

4K mini Fibre extender, using only a single filament with LC-LC connections. Bypass EDID and HDCP 1.4 are supported for up to 300m using any type of fibre (Multi-mode or Single-mode). Maximum distance of 2Km (Single-mode) can be achieved without HDCP encryption.

- Mini Fibre optic extender
- Supports HDM 1.4, 4K60 4:2:0 (10.2Gbps)
- Simplex LC-LC connection (mono fibre)
- 300m extension using Multi-mode or Single Mode
- 2000m using Single-mode (HDCP not supported)
- Pass-through EDID
- Totally immune to EMC and ground noise

UHD-FM

4K₃₀



4K HDMI over Fibre Extender - RS232, USB

4K Fibre extender to 1.4Km with USB and RS232 capability. Both the Transmitter and Receiver units can have up to 4 devices each (Keyboard, Mouse, Touch-screen, Data storage), allowing full control from either end. The RS232 can be set to any baud rate (1200 to 115.2K), with simple pc configuration interface.

- Duplex LC SFP+ Fibre HDMI/KVM extender
- Supports HDM 1.4, 4K60 4:2:0 (10.2Gbps)
- Can extend 4K video to 1400m (Single-mode fibre)
- Accepts 4x USB-A HID device on each side
- Supports, Keyboard, Mouse, Touch-screen, Storage
- Hotkey controllable
- Bi-directional RS232 up to 115.2Kb

EXTENDERS - HDBT

HDBT-70-SLIM PRO SET



NEW FOR
2020



Slim70-Pro - The Professional's Choice

We've taken the most reliable and slimmest 4K HDBT extender set on the market and pumped it full of performance enhancing features. The unit retains all the benefits of our previous generation Slim70-Edge, extending HDMI signals via Cat 6 up to 70m @1080p or 40m @4K, bi-directional IR and 2x RS232. The enhancements now includes support and management of HDCP 1.4 and HDCP 2.2, built-in down-scaler for 4K60 4:4:4 to 4K60 4:2:0/1080p, and Test Pattern Generator with Checkerboard or Solid Colour Patterns for a wide range of resolutions/frame rates. The Video Keep Alive function maintains video output when there is no signal detected, HPD Control stimulates the source to re-communicate with the display, and Audio De-embedding is available via Analogue Stereo L/R or Optical S/PDIF. EDID management, Temperature diagnostics, overheat detection and reporting with auto shut off facility plus the use of a single 48V power supply with iPoC (intelligent PoC) from either side are amongst the many added features. All this functionality is still packed in a small form factor and still the slimmest HDBaseT extender in the world. The Slim70-Pro extender is formidable and one of the most versatile and innovative products we have designed to date.

- Single Cat 6 to 70m @1080p or 40m @4K
- 4K60-1080p Scaler
- HDCP 1.4/2.2 management
- Test Pattern Generator
- Video Keep Alive option
- Audio de-embedder
- Cable length measurement
- Temperature diagnostics, reporting and auto recover
- Extensive EDID management
- HPD control
- Bi-directional IR
- 2x Bi-directional RS232
- 48V PSU with iPoC (intelligent PoC) from either side

HDBT-18G-ARC70



NEW FOR
2020



4K60 ARC HDBaseT Extender - IR, RS232, ARC, Audio de-embed

The HDBT-18G-ARC70 extender set is a perfect solution for high end residential requirements. Capable of extending all HDMI resolutions up to 4K60 4:4:4 (18Gbps) for 40m and 1080p to 70m using a single Cat 6 cable. Supports ARC or external Toslink audio return, as well as de-embedding the audio at the receiver end.

- Supports HDMI 2.0 4K60 4:4:4 (18Gbps)
- HDCP 1.4/2.2 and CEC compliant
- ARC pass-through or Toslink Audio Return
- Transmits 1080p to 70m and 4K60 to 40m
- 1080p to 4K Scaler
- Test Pattern Generator, EDID management
- De-embedded audio at Receiver
- Bi-directional RS232 and IR

HDBT SLIM-70 EDGE SET

4K₃₀



The Ultimate Slim HDBaseT 70m Extender - 2x RS232, IR

The slimmest HDBaseT extender set available on the market, measuring only 108 x 70 x 11.5 mm. Extending HDMI 4K30 UHD video up to 40m and 1080p to 70m, with bi-directional IR, and dual RS232, CEC and PoC over a single Cat 6 cable.

- Slimmest HDBaseT in the world (11.5mm)
- HDMI 1.4, 4K60 4:2:0 (10.2G) & HDCP 2.2
- Transmit 1080p to 70m and 4K30 to 40m
- Dual pass through RS232
- Bi-directional IR
- Single PSU - Powered from Tx or Rx (iPoC)

HDBT-100-SLIM SET

4K₃₀



The Ultimate Slim HDMI HDBaseT 100m Extender - RS232, IR, Ethernet

4K30 HDBaseT extender set with bi-directional IR and RS232, as well as Ethernet. The extender is designed for high noise immunity, extending 4K30 video to 100m and 1080p to 150m over a single Cat 6 cable. Supports bi-directional IR and RS232, as well as CEC and PoC over a single Cat 6 cable.

- Only 12mm thick
- HDMI 1.4, 4K60 4:2:0 (10.2G) & HDCP 2.2
- Transmit 1080p to 150m and 4K30 to 70m
- Bi-directional IR & RS232 pass through
- Dual Ethernet hub on both Tx & Rx (4x RJ45)
- Single PSU - Powered from Tx or Rx (iPoC)

HDBT-ARC70-SLIM

4K₃₀

ARC



Ultra-Thin 4K HDBaseT 70m Extender set with ARC

The slimmest HDBaseT extender set available on the market, measuring only 108 x 70 x 11.5 mm. Extending HDMI 4K30 UHD video up to 40m and 1080p to 70m, with bi-directional IR, and dual RS232, CEC, ARC and PoC over a single Cat 6 cable. Auto-detecting the external audio input on Rx, the ARC function audio is automatically outputted on the Tx side either as L/R or Toslink. No switch setting required.

- Slimmest HDBaseT in the world (11.5mm)
- L/R, Toslink audio embedding or ARC
- L/R or Toslink output on the Tx side
- HDMI 1.4, 4K60 4:2:0 (10.2G) & HDCP 2.2
- Transmit 1080p to 70m and 4K30 to 40m
- Dual pass through RS232
- Bi-directional IR
- Single PSU - Powered from Tx or Rx (iPoC)

EXTENDERS - HDBT

HDBT-ARC100

4K₃₀

ARC



Ultra-Slim 4K ARC HDBaseT 100m Extender - IR, RS232, Ethernet, ARC

A feature rich 4K30 HDBaseT extender set with bi-directional IR and RS232, as well as Ethernet and ARC. The extender is designed for high noise immunity, extending 4K30 video to 100m and 1080p to 150m over a single Cat 6 cable. External Toslink or ARC from the display, can be routed back to the transmitter.

- HDMI 1.4, 4K60 4:2:0 (10.2G) & HDCP 2.2
- Transmit 1080p to 150m and 4K30 to 100m
- Supports ARC, CEC & HDCP 2.2
- Toslink embedding or ARC from Rx side
- De-embedded output on Tx side
- 1x Ethernet port on Tx, 3x Ethernet port on Rx
- Bi-directional IR & RS232 pass through
- Single PSU - Powered from Tx or Rx (PoC)

HDBT-EC

4K₃₀



4K30 HDBaseT 70m Extender - IR

Slim and cost effective HDBaseT extender set, extending HDMI 4K30 UHD video up to 40m and 1080p to 70m, with bi-directional IR and PoC over a single Cat 6 cable.

- HDMI 1.4, 4K60 4:2:0 (10.2G) & HDCP 2.2
- Transmit 1080p to 70m and 4K30 to 40m
- Bi-directional IR
- Single PSU - Powered from Tx or Rx (PoC)
- Compact & light (only 16mm thick)

SPLITTERS - HDBT

HDBT-131EC SET

4K₃₀



4K30 HDBaseT Distribution Splitter - 3x HDBaseT, HDMI Loop out, IR

Cost effective HDBaseT Splitter set, extending HDMI 4K30 UHD video up to 40m and 1080p to 70m. The 3x HDBaseT outputs are PoC enabled (3x Rx and IR buds included) and has a local HDMI loop out with de-embedded audio. Supports CEC, HDCP 2.2 and bi-directional IR.

- HDMI 1.4, 4K30 4:2:0 (10.2G) & HDCP 2.2
- Transmit 1080p to 70m and 4K30 to 40m
- 3x HDBaseT and 1x HDMI loop out

- Bi-directional IR
- De-embedded L/R audio
- Single PSU - Powers all receivers (PoC)

HDBT-282-S

4K₃₀



Dual HDMI to 8+2 HDBaseT Splitter

The HDBT-282-S Splitter is highly configurable and fully RS232 controllable. Transmitting the selected video over 8x HDBaseT and 2x HDMI outputs. The units can power (PoC) the remote receivers (HDBT-70SE-R), extending 4K30 UHD videos up to 40m and 1080p to 70m. Feature rich and fully controllable using independent RS232.

- HDMI 1.4, 4K60 4:2:0 (10.2G) & HDCP 2.2
- 2x Selectable HDMI inputs
- 8x HDBaseT and 2x HDMI loop out
- Transmit 1080p to 70m and 4K30 to 40m
- Bi-directional IR and RS232 pass-through

- Feature rich independent RS232 Control
- De-embedded L/R audio
- Extensive EDID management
- Single PSU - Powers all receivers (iPoC)

SPLITTERS - HDBT

HDBT-231-70

4K₃₀



Dual HDMI to 3+1 HDBaseT Splitter - Single Zone DA

The HDBT-231-70 Splitter is highly configurable and fully RS232 controllable. Transmitting the selected video over 3x HDBaseT outputs, as well as a HDMI loop out. The HDBaseT outputs transmit 4K30 UHD videos up to 40m and 1080p to 70m. The unit can power (PoC) the remote receivers (HDBT-70SE-R). Feature rich and fully controllable.

- HDMI 1.4, 4K60 4:2:0 (10.2G) & HDCP 2.2
- 2x Selectable HDMI inputs
- 3x HDBaseT and 1x HDMI loop out
- Transmits 1080p to 70m and 4K30 to 40m
- Bi-directional IR and RS232 pass-through
- Feature rich independent RS232 Control
- De-embedded L/R audio
- Extensive EDID management
- Single PSU - Powers all receivers (iPoC)

HDBT-231-100

4K₃₀



Dual HDMI to 3+1 HDBaseT Splitter - Single Zone DA

The HDBT-231-100 Splitter is highly configurable and fully RS232 controllable. Transmitting the selected video over 3x HDBaseT outputs, as well as a HDMI loop out. The HDBaseT outputs transmit 4K30 UHD videos up to 70m and 1080p to 100m. The unit can power (PoC) the remote receivers (HDBT-100-R or HDBT-70SE-R). Feature rich and fully controllable.

- HDMI 1.4, 4K60 4:2:0 (10.2G) & HDCP 2.2
- 2x Selectable HDMI inputs
- 3x HDBaseT and 1x HDMI loop out
- Transmits 1080p to 100m and 4K30 to 70m
- Bi-directional IR and RS232 pass-through
- Feature rich independent RS232 Control
- De-embedded L/R audio
- Extensive EDID management
- Single PSU - Powers all receivers (iPoC)

HDBT-662

4K₃₀



Two Zone Multi-Format HDBaseT Switcher DA (2 independent 3+1 zoned outputs)

This feature rich and flexible Multi-format Switcher DA has 4x HDMI, 1x DisplayPort, 1x VGA inputs, as well as a dual Zone outputs. Each Zone comprises of 3x HDBaseT and 1x HDMI outputs (Mirrored), with independent de-embedded audio, IR and RS232 pass-through. Zone 1 HDBaseT output has a 70m (1080p) range, whilst Zone 2 has 100m (1080p).

- HDMI 1.4, 4K60 4:2:0 (10.2Gbps) switcher DA
- 4x HDMI, 1x DisplayPort, 1x VGA inputs
- Dual Zoned outputs (6x2 Matrixed Zones)
- Each Zone: 3x HDBaseT, 1x HDMI outputs
- L/R de-embedded audio
- IR & RS232 pass through
- Zone 1 HDBT: 1080p @70m, 4K30 @40m
- Zone 2 HDBT: 1080p @100m, 4K30 @70m
- Control: Front panel, IR, RS232, LAN
- Single PSU: Provides power (iPoC) to receivers

SPLITTERS - HDMI

HS12E-18G

4K^{18G}



1x2 HDMI splitter with enhanced EDID Management

A compact dual HDMI 2.0, 4K60 4:4:4 (18G) compatible Splitter DA, with an extensive EDID management facility. Supports wide ranging audio formats, including LPCM 7.1 CH, Dolby True HD, and DTS-HD Master. For best performance, we recommend the use of SY's Stealth HDMI 2.0 cables, capable of powering SY-Centaur AOC cables for longer distances (up to 100m).

- 1x2 HDMI 2.0 (18Gbps) splitter
- Extensive EDID management
- HDMI 2.0, 4K60 4:4:4 and HDCP 2.2 compliant
- Slim and compact
- Supports LPCM 7.1 CH, Dolby True HD, & DTS-HD Master

HS18-18G

4K^{18G}



HS14E-18G

4K^{18G}



**NEW FOR
2020**



1x4 HDMI 2.0 Splitter with Down-Scaler

A compact 4 port HDMI 2.0 (4K60 4:4:4) splitter DA, with HDR, EDID and CEC pass-through. Each output can automatically scale down a 4K input video to 1080p, ensuring compatibility with 1080p displays. Hence accommodating a mix of 4K and 1080p displays. For best performance, we recommend the use of SY's Stealth HDMI 2.0 cables, capable of powering SY-Centaur AOC cables for longer distances (up to 100m).

- 18G 4K60 4:4:4 maximum HDMI input resolution
- EDID management
- Can down-scale 4K HDMI to 1080p per output as required
- Supports HDCP 1.4, 2.2, 2.3 and Cascade Mode
- Each output can power Active HDMI + AOC cables (Max. 500mA)
- Supports HDR
- Provides CEC pass-through

1x8 HDMI splitter with Smart EDID Management

A compact 8 port HDMI 2.0, 4K60 4:4:4 (18G) Splitter DA, with smart EDID management facility. Supports wide ranging audio formats, including LPCM 7.1 CH, Dolby True HD, and DTS-HD Master. For best performance we recommend use of SY's Stealth HDMI 2.0 cables, as well as the SY-Centaur AOC cables for longer distances (up to 100m).

- 1x8 HDMI 2.0 (18Gbps) splitter
- HDMI 2.0, 4K60 4:4:4 and HDCP 2.2 compliant
- Supports LPCM 7.1 CH, Dolby True HD, & DTS-HD Master
- Smart EDID management
- Slim and compact

AUDIO - AMPLIFIERS

2A-100W



Dual Input 2x 50W Stereo Audio Amplifier

A powerful yet compact 100W Class-D digital amplifier capable of delivering 2x 50W of power. Choice of analogue L/R stereo or Toslink optical, with optional voice-over microphone. Stunning looks and easy to operate via Front Panel, IR, RS232 or LAN. Suitable for multimedia applications, residential as well as meeting rooms.

- 2x50W output in stereo, mono or bridge configuration
- Analogue Stereo or Optical Toslink audio inputs
- Mic/Line voice-over input
- Microphone 48V Phantom power option
- Microphone auto ducking
- Loop out option for synchronised cascading
- OLED front panel display
- Powerful and detailed Web GUI control
- Control: Front panel, IR, RS232, LAN (GUI)

2A-20W



Audio Amplifier 2x 20W with RS232 Control

Compact class-D power amplifier capable of delivering 2x 20W of power. Dual analogue input is complemented with Mic/Line voice-over, stereo line out and RS232 controllable.

- 2x 20W power into 4 ohm speakers
- Stereo 3.5mm jack or RCA inputs
- Mic/Line voice-over input
- Microphone 48V Phantom power option
- Microphone auto ducking
- Line/Mic/Bass/Treble volume control
- Control: Front panel, IR, RS232

3A-40W



Audio Amplifier 40W 70/100 Line Output with RS232 Control

The 3A-40W is a 40W compact power amplifier, with a choice of 70V or 100V line output. The unit has 3 audio inputs as well as Mic/Line voice-over, and powerful RS232 control.

- 40W power @70/100V line out
- L/R RCA, 3.5mm jack or Toslink Line inputs
- Mic/Line voice-over input
- Microphone 48V Phantom power option
- Microphone auto ducking
- Line/Mic/Bass/Treble volume control
- Control: Front panel, IR, RS232

1A-25W



Wall-Mount 2x25W Audio Amplifier with RS232 control

This analogue amplifier accepts a balanced or unbalanced analogue stereo input and provides efficient class D stereo speaker outputs. Controls via RS232 and a volume control knob with LED bar-graph.

- 2x 25W Class D Output into 8 Ohms
- Balanced/Unbalanced Line Inputs
- Front panel Volume and Mute Control
- UK and EU double gang back-box
- Mono/Stereo Mode & Balance Control
- RS232 Control
- Also available as box version, part number 1A-25R

AUDIO - EMBED/DE-EMBEDDERS

EM UHD EX

4K₃₀



4K30 UHD Audio Embedder/De-embedder with 3 Audio Inputs/Outputs

This 4K HDMI Audio Embedder/Extractor (de-embedder) can embed any one of Analogue stereo, Coaxial S/PDIF and Optical Toslink audio inputs onto the HDMI output. The simultaneous audio outputs (Analogue stereo, Coaxial S/PDIF and Optical Toslink) can be either from the ARC channel or audio extracted from the incoming HDMI. Supported audio formats include LPCM (2.0 or 5.1), Dolby True HD, Dolby AC3, DSD, DTS, DTS-HD.

- HDMI 1.4, HDCP 1.4, CEC compliant input & output
- L/R, Coax S/PDIF, Optical Toslink input & output
- Embed audio from choice of 3 audio sources
- Simultaneous de-embedded audio on all 3 outputs
- Simultaneous ARC audio on all 3 outputs
- Can de-embed with no output HDMI connection
- Dolby True HD, Dolby AC3, DSD, DTS, DTS-HD, LPCM
- Output Test pattern (480p) when no input connected
- Re-clocked HDMI and EDID management

HD-3.5AD



HDMI Stereo Audio De-embedder & HDMI Repeater

The HD-3.5AD HDMI provides de-embed stereo audio in a very small size. A special feature of this device is the ability to de-embed the incoming HDMI signals whilst providing a DVI output to a DVI only display, such as some projectors. Furthermore, it can de-embed the audio without a display unit. Suitable for connecting directly to a power amplifier, such as the SY-3A-40W or SY-2A-100W.

- HDMI Input and Output
- De-embedded Stereo Audio Output
- Can de-embed whilst connected to DVI display
- Can de-embed without connecting to a display
- Supports HDMI 1.4
- Resolution up to 1920x1200/1080p
- Supports HDCP and CEC
- Mounting brackets included

AD-18G

4K_{18G}



HDMI 2.0 Audio De-embedder - 18G

The AD-18G de-embedder is HDMI 2.0, 4K60 4:4:4 (18Gbps) rated, with EDID and CEC pass-through. In 2 CH mode, it de-embeds the audio simultaneously to all 3 audio outputs (Balance stereo, L+R & Coaxial S/PDIF). In Bitstream mode, the audio is de-embedded only to the Coax S/PDIF.

- HDMI 2.0, 4K60 4:4:4 (18G), HDCP 2.2, HDR and CEC compliant
- HDCP 2.2 to HDCP 1.4 convertor
- HDMI HBR (high Bit Rate) supported in PASS mode
- LPCM, Dolby 2/5.1 and DTS 2/5.1
- L+R and Balanced stereo analogue with Coax S/PDIF audio outputs
- Audio De-embed, even when no display connected
- Supported Audio input modes: Pass-through, Bitstream, PCM

AUDIO - ACCESSORIES

LVC



Line Volume Controller with RS232 Control

In-line Volume Controller with RS232 control. Line level balanced/unbalanced input/output, Power on/off, up/down and absolute volume control, mute on/off, Mono/stereo modes. Works seamlessly with all SY Keypad Controllers.

- Stereo balanced/unbalanced line inputs
- RS232 control
- Stereo balanced/unbalanced line outputs
- Rack mountable with RS-01 shelf
- Volume up, down and absolute control
- Mute
- Balance control
- Mono/Stereo mode

CONTROL

DYNAMIC LEGEND KEYPAD

Introducing SY's next generation keypad controllers - The KD8

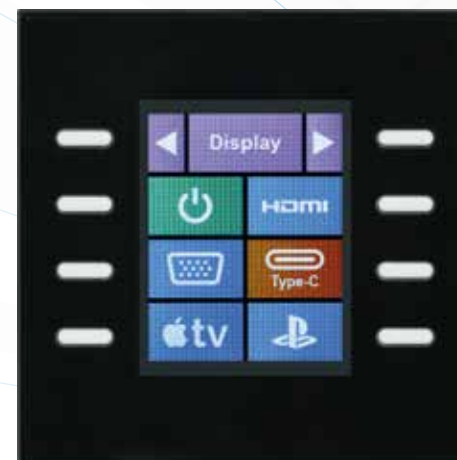
This 'Dynamic Legend Keypad' incorporates a colour LCD which accommodates a customisable soft label for each key. The Dynamic labelling technique allows each button to have several functions with a meaningful label for each function. This level of versatility allows the unit to easily blend into any environment. The full colour LCD screen provides clear labelling of key functions for distinct and easy viewing; ideal as a complete room controller or as part of a large distributed system.

KD8 is equipped with 2x bi-directional RS232, 1x IR output, 2x input/output ports and an Ethernet port as standard. It can maintain 32 permanent TCP/IP sockets allowing control of 32+ devices. The unit has a low profile for fitting standard UK and EU back-boxes and can be powered via the PoE enabled Ethernet port or using an external PSU.

The Nebula Studio™ is a powerful, yet simple to operate software, with ease of script development in mind, providing both beginner and advanced programmers the flexibility to create bespoke solutions. Program codes for the KD8 can be generated with the simple drag & drop interface, using our extensive device library. With many variations of icons and labels, stunning effects can be composed simply and speedily.

KD8 has a full glass front panel and is available in a Black or White finish. Easy to program, easy to install with elegant aesthetics - KD8 is truly the professionals' choice.

KD8



NEW FOR
2020

8-Button Dynamic Legend Keypad Controller

- 8 Button Keypad
- Full colour Dynamic Legends
- 2x bi-directional RS232
- 1x IR output
- 2x input/output ports
- Ethernet port - 32 Permanent TCP/IP sockets
- PoE or external PSU
- Nebula Studio™ program development environment
- Rapid program development - drag & drop/code complete
- Large array of stunning graphics
- Vast library of devices
- Program over IP - Config files/firmware
- Secure connection
- Real-time Feedback
- Toughened glass front panel
- Stunning looks - available in Black/White
- Standard UK/EU back-box

Model Numbers:

SY-KD8-W - 8 Button DL White (UK/EU)

SY-KD8-B - 8 Button DL Black (UK/EU)

CONTROL

KP RANGE

The KP range of SY Keypad Controllers are ideal as a complete room controller, as well as large distributed systems.

The keypad buttons can be individually labelled with full RGB illumination, ensuring a wide range of colour options. With a range of small Mini KPM4/6 as well as the larger units with optional Volume control or extra navigation buttons, these controllers are the optimum choice for any professional installation.

The SY Device suite software allows easy programming of the keypads, using a simple drag & drop interface with an extensive device library.

The controllers are available in UK (B) or Euro (E) fascia, with each version in White and Aluminium finish.

Please add the required suffixes to the Model Numbers: (x= E Ethernet) (y= B UK, x= E Euro) (z= W White, y= A Aluminium)

MINI KEYPAD CONTROLLERS



4 & 6 Button Keypad Controller

2x RS232/2x IR, 2x digital input, 2x active low outputs

Model Numbers:

SY-KPM4 -yz - 4 Button

SY-KPM6 -yz - 6 Button

ROTARY VOLUME KEYPAD CONTROLLERS



4, 6 & 8 Button Keypad Controller with Rotary Volume

4x RS232/4x IR, 2x digital input, 2x active low outputs -

Optional Ethernet available

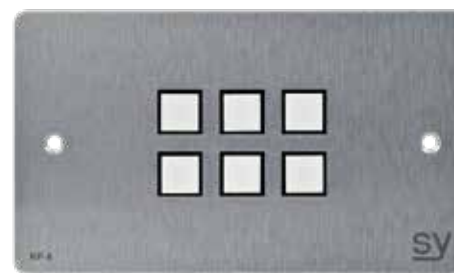
Model Numbers:

SY-KP4 x-yz - 4 Button, Volume

SY-KP6 x-yz - 6 Button, Volume

SY-KP8 x-yz - 8 Button, Volume

STANDARD KEYPAD CONTROLLERS



6 & 10 Button Keypad Controller

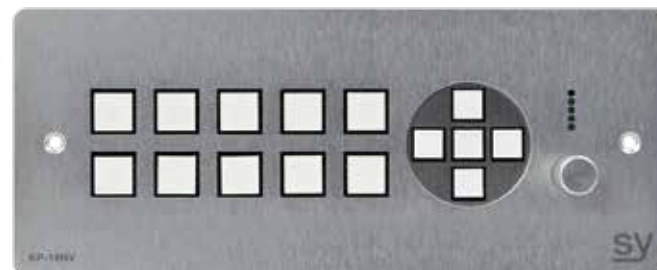
4x RS232/4x IR, 2x digital input, 2x active low outputs - Optional Ethernet available

Model Numbers:

SY-KP6 x-yz - 4 Button

SY-KP10 x-yz - 10 Button

ROTARY VOLUME + NAVIGATION KEYPAD CONTROLLERS



4 & 10 Button Keypad Controller with Navigation & Rotary Volume

4x RS232/4x IR, 2x digital input, 2x active low outputs - Optional Ethernet available

Model Numbers:

SY-KPM4 x-yz - 4 Button, Volume, Navigation

SY-KPM6 x-yz - 10 Button, Volume, Navigation

CONTROL - ACCESSORIES

RSM4

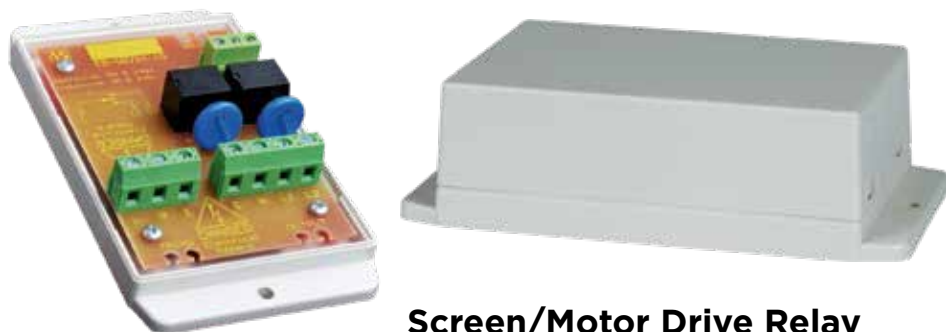


4 port Serial RS232 Matrix

The RSM4 is a Serial Matrix with 4 bi-directional RS232 ports. Each Rx and Tx connection can be routed to any of the other Rx or Tx ports, making this the perfect companion when additional ports are required. 10 Presets are available which can be activated by any of the Rx connections.

- 4 Bi-directional RS232
- RS232 Port expander or combiner
- Internal RS232 buffer
- Configure easily in Device Suite
- 10 Presets
- Programmable via USB
- Rackmount with RS01 shelf

HV2M-B2



Screen/Motor Drive Relay

The HV2M-B2 Motor Drive Relay has dual non-overlapping relay outputs, specifically designed for up/down or left/right motor control action. As such it is not possible to accidentally activate both outputs, with drastic consequences. Only 3 wires are needed for interfacing to any keypad controllers or control processors.

- Active low logic inputs (0 – 12V)
- Total input/output isolation
- 5A 240Vac mains rated relay outputs
- Motor protection – Only one relay allowed to energise at a time
- Control projection screen/lift, shades, etc

RB6



6 Relay Controller

The RB6 has 6x low voltage (30V) changeover relays and is RS232 controlled. Both NO (Normally open) and NC (Normally closed) contacts are available for maximum flexibility.

- 6 Low voltage changeover relays
- RS232 controlled
- RS232 Status Feedback
- On, Off or Toggle commands
- Compact design
- Rackmount with RS01 shelf

IRL



Infrared USB Learner

The IRL is an infra-red learner for use with SY's Device Suite software to learn infra-red controls via USB port.

- USB Infra-Red learner
- Capture handsets IR commands into SY Device Suite
- New infrared drivers can easily be created

INPUT PLATES

WP-H



UK Single Gang HDMI Wall Plate

Single gang HDMI input plate, with 150mm HDMI lead extension (Female-Female) for ease of installation. Available in UK and EU single gang size with a choice of pearl white or brushed aluminium finish.

- Stylish HDMI single gang input plate
- 150mm HDMI fly-lead (Female to Female)
- UK or EU single gang options
- Available in pearl white or brushed aluminium

WP-HVU-S



HDMI, VGA & USB-A Input Plate

Single gang HDMI, VGA and USB-A input plate. The HDMI and USB-A connections have a 150mm fly-lead (Female-Female), whilst the VGA connection and 3.5mm audio input connect via 15 pin screw terminals. Available in UK and EU single gang size with a choice of pearl white or brushed aluminium finish.

- HDMI, VGA and USB-A Single gang input plate
- 150mm HDMI & USB-A fly-lead (Female to Female)
- 15 pin connector for VGA and Audio
- UK or EU single gang options
- Available in pearl white or brushed aluminium

WP-HV



HDMI & VGA Input plate

Single gang HDMI and VGA (+ 3.5mm audio) input plate. The HDMI connection has a 150mm fly-lead (Female-Female), whilst the VGA connection and 3.5mm audio input connect via 15 pin screw terminals. Available in UK and EU single gang size with a choice of pearl white or brushed aluminium finish.

- Stylish HDMI & VGA single gang input plate
- 150mm HDMI fly-lead (Female to Female)
- 15 pin connector for VGA and Audio
- UK or EU single gang options
- Available in pearl white or brushed aluminium

WP-HVU



HDMI, VGA & USB-B Input Plate

Dual gang HDMI, VGA and USB-B input plate. The HDMI and USB-B connections have a 150mm fly-lead (Female-Female), whilst the VGA connection and audio 3.5mm input connect via 15 pin screw terminals. Available in UK and EU double gang size with a choice of pearl white or brushed aluminium finish.

- HDMI, VGA and USB-B double gang input plate
- 150mm HDMI & USB-B fly-lead (Female to Female)
- 15 pin connector for VGA and Audio
- UK or EU single gang options
- Available in pearl white or brushed aluminium

EDID MANAGEMENT

SE-10

4K 18G

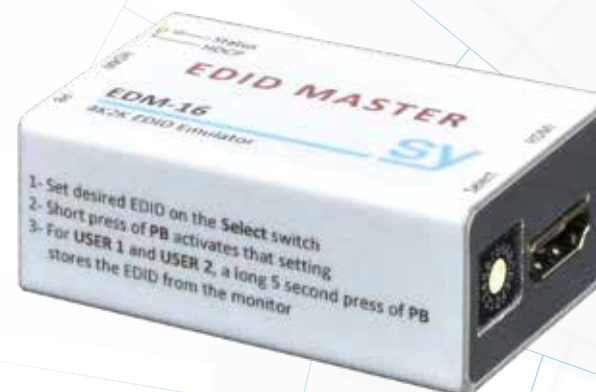


18G 4K HDMI 2.0 Up/Down Scaler with Audio De-Embedding, EDID Management & Test Pattern Generator

An invaluable high quality multi-tool AV product. The SE-10 is HDMI 2.0 (18G) rated, with an up/down scaling function (1080p->4K and 4K->1080P), and powerful video enhancement features. The extensive EDID management ensures optimum source performance, with full HDCP control. There is also a stereo de-embedded analogue audio (3.5mm Jack) and a video Test Pattern Generator (4K30 & 1080p) facility.

- HDMI 2.0, 4K 60Hz 4:4:4 (18G) compliant
- Up/Down Scaler: 4K to HD/HD to 4K
- Video enhancement options
- Extensive EDID management
- HDCP control
- 4K and 1080 Test Patterns
- Audio de-embedder

EDID MASTER



Powerful Inline EDID Manager/Editor

An extremely powerful EDID management tool, placed in-line between source and display (powered by the source). The display EDID can be easily captured. The captured EDID or the stored master EDID can then be easily modified for specific requirements, using various filters. The HPD can be conveniently activated via a push button, to simulate cable plug/unplug. The HDCP indicator can also help with system diagnostics. The EDID MASTER can modify the display EDID using the rotary switch.

- In-line EDID management
- Simple EDID capture/modify facility
- Powerful EDID Filter function
- HDCP indicator
- HPD simulation button
- No PSU required - Very low power

CABLES

STEALTH-18G

4K 18G



Slimmest 18G HDMI 2.0 Cable

Designed with quality in mind, the Stealth-18G is a specially constructed cable, with a unique super slim one piece HDMI metal headshell. This special construction ensures end-to-end shielding, significantly reducing any RF and EMI emissions. The unique HDMI metal headshell exhibits a High-Grip, ensuring connection integrity and avoiding accidental disconnection. This advanced High Speed HDMI 2.0 tested cable is capable of carrying the most demanding 4K60 4:4:4 signals, together with HDR, HLG, ARC, Ethernet, HDCP 2.2, CEC and Dolby Vision. With only 12mm bend radius, the Stealth-18G is a perfect option for rack/cabinet management, patch panels, residential A/V, IT, low profile and gaming requirements.

- HDMI 2.0, 4K 60Hz 4:4:4 (18Gbps) tested
- Unique full metal HDMI connector - Slimmest in the world
- Super high grip - Ensures cable retention
- Superior shielding - Full shielding end to end
- Reduce RF emissions impacting Bluetooth & Wi-Fi
- HDCP 2.2, HDR, HLG, HPD, ARC, Ethernet, CEC compliant
- 3.4mm diameter - 5x slimmer than standard
- 12mm bend radius
- Lengths: 0.3m, 0.5m, 0.75m, 1.0m, 1.5m, 2.0m

FOP-SM



Simplex Single-mode Optical Fibre Cable

Pre-terminated Simplex LC-LC Single-mode fibre optic cable, available off the shelf in various lengths up to 60m (custom lengths available). Using the best quality 9/125 OS2 Single-mode fibre and measuring only 2mm diameter, optimal performance is assured. Up to 4 lengths can be joined together using FOP-COP-SLC fibre optic couplers, to a maximum length of 200m.

- Single-mode LC-LC fibre - 9/125 OS2
- High quality - individually pre-tested
- 10mm Bend radius
- Only 2mm OD diameter
- Length: 1.5m, 5m, 10m, 15m, 30m, 60m

CENTAUR AOC

4K 18G



HDMI 2.0, 4K 60Hz 4:4:4 AOC cable up to 100m

The Centaur AOC Plenum rated cables deliver uncompressed HDMI 2.0 18G transmissions for long distance extension. These hybrid cables are built with quality in mind, using specially designed high grade cables and the latest VCSEL laser technology. Low power design ensures stable performance over all distances, powered only by the source. Applications include residential A/V, IT, gaming, medical, conference rooms and retail signage.

- Uncompressed HDMI 2.0, 4K60 4:4:4 (1.8Gbps)
- HDCP 2.2, HDR, HLG, HPD, ARC, Ethernet, CEC compliant
- VCSEL active chipset ensures signal integrity
- Die-cast metal shell for superior shielding
- Reduced EMI & RFI emissions that can impact Bluetooth & WIFI
- 4.5mm cable thickness with 25mm bend radius
- Compact, light and flexible
- Low power - No external power required
- Cost effective extension cables, 7.5m up to 100m
- Plenum rated
- Plug & Play

SLIM-CAT



Slimmest Cat 6 Cable - 3.5mm OD

The Slim-Cat is our range of Cat 6 patch cables, best suited for rack interconnections and short wall outlets. These cables are light, pliable (10mm bend radius) and tested to meet Cat 6 standard.

- Individually fully tested Cat 6 UTP/STP (28 AWG)
- 3.5mm diameter - 3x slimmer than standard
- 50 micron Gold plated terminals
- 10mm Bend radius
- Slim, Flexible and with latch protection boot
- Length: 0.3m, 0.5m, 0.75m, 1m, 2m, 3m, 5m

NOTES

Where to buy SY products

We have a worldwide network of distributors and resellers, to find one near you please contact us at **www.sy.uk/contact** or call **+44 (0)161 868 3450**

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