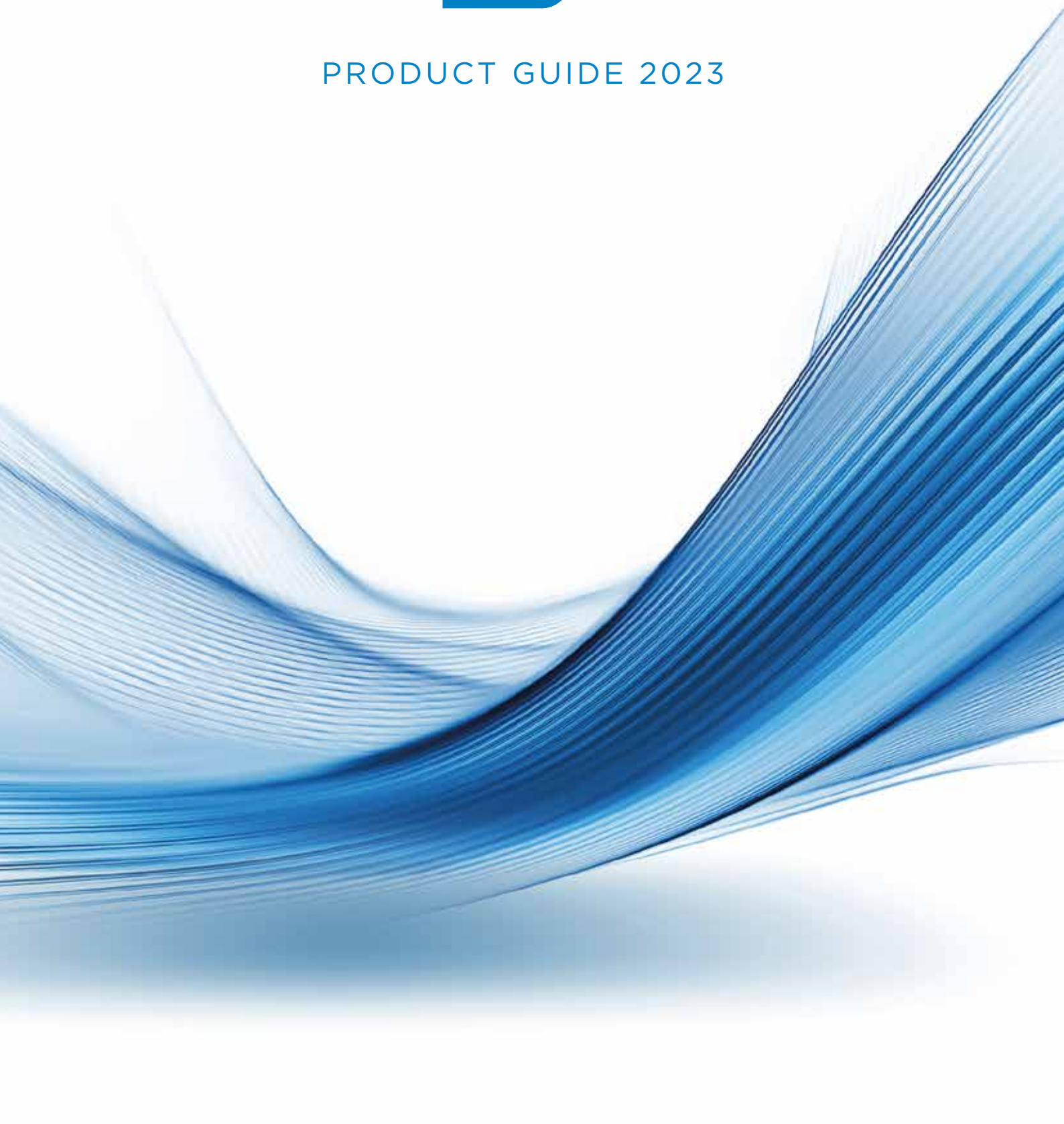




PRODUCT GUIDE 2023



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Feature Icons

4K 18G	Scaling Down	Video Keep Alive
4K 30	Scaling Up/Down	Video Walling
ARC	Scaling Wide Range	USB
Bring Your Own Device	Seamless Switching	USB 3
KVM	SY Cast	
Multi-Viewer	Test Pattern	



Message from our MD

We have been witnessing defining moments in our industry, SY Electronics, is committed to protecting and helping our clients grow, by building technologies to achieve better experiences, reducing set up times and improving sustainability.

Our vision has always been to ease the adoption of AV technology. We do this by making Connectivity, Signal Distribution and Control Products more accessible, functional, affordable and reliable.

By harnessing the benefits of collaboration, networking and encouraging mindshare between technology professionals, we have improved customer relationships through our understanding of their current and future needs. This capacity to adapt has allowed us to integrate deep technological changes in the solutions we offer.

Our 2023 product portfolio, which include new Matrices, Multiview and BYOD meeting room switchers plus a brand new range of powerful Keypad Controllers, allows our customers to entrust us with their AV connectivity and distribution needs.

We remain devoted to listening to your feature requests, and thereby serve you better year on year.

Sirous Yazdanian

2023

New Products for 2023



KC & KCS Range
Keypad Controllers



Wizard 4
Wireless Presentation Device



Wizard 4U
Wireless Presentation Device with
USB Mic/Cam over WiFi



Wand C
Wireless USB-C Dongle for use
with Wizard 4 & 4U



Wand H
Wireless HDMI Dongle for use
with Wizard 4 & 4U



KVM41-U3-18G
Quad USB 3.0 KVM Switch



Apollo 42
4x2 Seamless Matrix, Multi-Viewer



Apollo 41
4x1 Seamless Switch, Multi-Viewer



Apollo 41U
4x1 Video Seamless KVM (USB 3.0)
Switcher, Multi-Viewer



MSU44-18G
4x4 HDMI 2.0 18G Matrix



MSU88-18G
8x8 HDMI 2.0 18G Matrix



CENTAUR ARMoured
HDMI 2.0 Armoured optical cable

CONTROL

KC & KCS RANGE

NEW FOR
2023

The KC & KCS range of Keypad Controllers are a perfect solution as a self-contained room controller or as part a large-scale control system. Housed in UK, EU, or US style faceplates and using standard back-boxes, they are available in 2, 4, 6, 8, or 10 RGB illuminated buttons with Volume control variants, to optimally suite any project requirements. The buttons can be individually legended, together with clear protection cap.




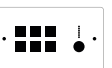







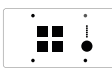
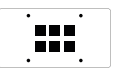
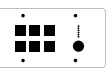
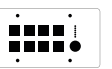
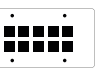

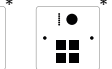
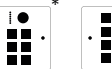





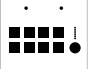
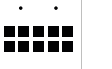

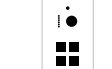


These stylish Keyboard controllers are available in White, Black or brushed Aluminium finish. They also have an inbuilt universal IR learner for extra convenience (except for KCS2). The units can be programmed very easily and intuitively, using the NebulaStudio™ Software.

The KC range are styled with Double gang face plate and have 6x RS232, 1x RS485, 4x IR, 4x I/O (24V, 200mA) ports together with an optional LAN port with PoE.

The KCS range are styled with Single gang face plate and have 4x RS232, 4x IR, 4x I/O (24V, 200mA) ports. The KCS2 has 2x RGB buttons, 2x RS232, 2x IR, and 2x I/O (24V, 200mA) ports.

- | | |
|--|--|
| <ul style="list-style-type: none"> • RS232 Ports (KC* 6x, KCS* 4x, KCS2 2x) • RS485 (KC* only) • 4x IR ports (KCS2 2x) • LAN port (PoE) (optional - KC* only) • 4x Input/output ports (KCS2 2x) | <ul style="list-style-type: none"> • Integrated IR Learner • Full colour RGB legend-able buttons • UK, Euro, US faceplate choices • White, Black, Aluminium finish choices • NebulaStudio™ - Powerful, yet easy to use scripting software |
|--|--|

Popular Stock Items

Region	KC-4V	KC-6	KC-6V	KC-8V	KC-10	KCS-2	KCS-4	KCS-4V	KCS-6V	KCS-8
UK 										
European 										
USA 										

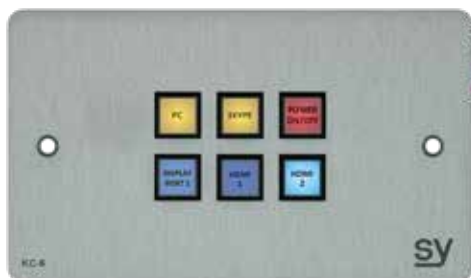
*Requires UK Back-Box

Finishes



KC

6 & 10 Button Controller



6x RS232, RS485, 4x IR, 4x digital I/O, LAN, PoE

Finishes: White, Black, Brushed Aluminum

KC WITH ROTARY DIAL

4V, 6V & 8V Button Controller with Rotary Dial



6x RS232, RS485, 4x IR, 4x digital I/O, LAN, PoE

Finishes: White, Black, Brushed Aluminum

KCS

2, 4 & 8 Button Controller



4x RS232, 4x IR, 4x digital I/O

Finishes: White, Black, Brushed Aluminum

KCS WITH ROTARY DIAL

4V & 6V Button Controller with Rotary Dial



4x RS232, 4x IR, 4x digital I/O

Finishes: White, Black, Brushed Aluminum

Xcalibur

Using HX Technology to Send HDMI 2.0 Signals
via Cat6 4K@60Hz: 4:4:4 - 120m, 1080p - 150m

The innovative Xcalibur range of products are yet again another SY ground-breaking technology development. With powerful features, these high reliability products are designed with professional system integrators in mind.

The extensive features and capabilities not only enhance the product performance in this class, but also greatly assist in installation and maintenance.

SY strives to satisfy the challenges of ever-growing AV market demands, through continuous development and innovation.

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> • HDMI 2.0 (18Gbps) • 1080p to 150m • 4K60 4:4:4 to 120m • HDR 10, 10+, & Dolby Vision • Down Scaler | <ul style="list-style-type: none"> • Audio De-embedding • PoC • RS232 Passthrough • RS232 Control • Bi-directional IR | <ul style="list-style-type: none"> • EDID and HDCP Control • Test Pattern Generator • VKA (Video Keep Alive) |
|---|---|--|

Note:

Xcalibur-11 Transmitter HDMI Loop out.

Xcalibur-11 Receiver De-embedded stereo Audio output.

Xcalibur-14 De-embedded Balanced + Digital Coax Audio per output. HDMI Loop out.

Xcalibur-44/88 Mirrored HX + HDMI outputs. De-embedded Balanced + Digital Coax Audio per output. Source & Sink control via CEC. LAN, RS232 and IR control.

Xcalibur 11



HDMI extender with Loop out De-embed Audio (Receiver)



Xcalibur 11 - Compact HDMI Extender using HX Technology, with all the common features of Xcalibur capabilities, such as: HDMI 2.0 (18G) capable, Transmission distance of 4K60 4:4:4 to 120m and 1080p to 150m, HDR 10, 10+, and Dolby Vision capable, Down-Scaling, EDID & HDCP control, Test Pattern, VKA, Bi-directional IR, RS232 control, RS232 pass-through, PoC. **Xcalibur 11 Receiver unit has Audio de-embed output.**

Xcalibur 14



1:4 Extender/Splitter with Loop out 1 HDMI input, 4 HX Outputs



Xcalibur 14 - A powerful 1:4 Splitter/Extender, with all the common features of Xcalibur capabilities. The output video streams can be individually controlled. CEC pass-through, EDID and Test Pattern switch settings, Balanced Analogue Audio + Digital Coax Audio. Independent RS232 distribution down each HX line. **The Xcalibur 14 Set, comes complete with 4 Xcalibur 11 Receivers.**

Xcalibur 44

4x4 HDMI HX Matrix 4 HDMI inputs 4, HX + HDMI Outputs



Xcalibur 44 - A powerful Matrix, with all the common features of Xcalibur capabilities. Mirrored HX + HDMI outputs. De-embedded Balanced Audio + Digital Coax Audio per output. Source & Sink control via CEC. LAN, RS232 and IR control. Housed in a convenient 1U chassis. **The Xcalibur 44 Set, comes complete with 4 Xcalibur 11 Receivers.**

Xcalibur 88

8x8 HDMI HX Matrix 8 HDMI inputs, 8 HX + HDMI Outputs



Xcalibur 88 - A powerful Matrix, with all the common features of Xcalibur capabilities. Mirrored HX + HDMI outputs. De-embedded Balanced Audio + Digital Coax Audio per output. Source & Sink control via CEC. LAN, RS232 and IR control. Housed in a convenient 2U chassis. **The Xcalibur 88 Set, comes complete with 8 Xcalibur 11 Receivers.**

SWITCHERS - WIRELESS BYOD



Wizard 4U

4K_{18G} BYOD SS

Wireless Presentation Device with USB Mic/Cam over WiFi



- Pure wireless presentation/collaboration BYOD experience - No messy cables
- Present your video using, Airplay, Miracast, Chromecast, LAN
- 'Touch to Show' using the wireless Wand dongles.
- Compatible with mainstream VC platforms - Teams, Zoom, Webex
- Supports Single, Dual, Triple, or Quad view
- Supports wireless Touch Back
- Can transmit back USB Camera/Audio
- Wireless content input up to 1080P
- Control and content preview using OSD
- Supports Whiteboard and On-screen Annotation
- Customizable home screen
- Central Management App
- Best-in-class data security, with Dual Network and high standard encryption
- PoE or external PSU

Wizard 4U is a wireless presentation/collaboration switch – An optimal solution for any meeting room or huddle space. The image contents of the PC, notebook, tablet, mobile phone or any other video source can be casted to a display wirelessly, using Airplay, Chromecast, Miracast, LAN network or USB-C/HDMI Wand dongles. Presentation is simple and intuitive, with individual screen sharing or as Multi-View with up to 4 images, at a touch of a button. The Touch-Back facility allows a presenter to navigate the source (PC, Laptop, etc) from the display side. Furthermore, the presenter can annotate the screen image or just use it as a white-board. The annotated image/white-board can be saved and sent to other delegates. The Moderator facility ensures easy control of presentation with facilities such as, Stop sharing, Full-screen mode, Audio mute, and many more. The Wizard 4U can also transmit back USB Cam/audio over Wi-Fi, making it even more practical and friendly for remote participants and integration with facilities such as Zoom, Teams, and more. No cables, No mess, No limitation – Just present with ease.

Wizard 4

Wireless Presentation Device

4K 18G BYOD SS



- **Pure wireless presentation/collaboration BYOD experience**
- No messy cables
- **Present your video using, Airplay, Miracast, Chromecast, LAN**
- **'Touch to Show' using the wireless Wand dongles.**
- **Compatible with mainstream VC platforms - Teams, Zoom, Webex**
- **Supports Single, Dual, Triple, or Quad view**
- **Wireless content input up to 1080P**
- **Control and content preview using OSD**
- **Supports Whiteboard and On-screen Annotation**
- **Supports wireless Touch Back**
- **Customizable home screen**
- **Central Management App**
- **Best-in-class data security, with Dual Network and high standard encryption**
- **PoE or external PSU**

Wizard 4 is a wireless presentation/collaboration switch - An optimal solution for any meeting room or huddle space. The image contents of PC, notebook, tablet, mobile phone or any other video source can be wirelessly casted to a display wirelessly, using Airplay, Chromecast, Miracast, Lan network or USB-C/HDMI Wand dongle. Presentation is simple and intuitive, with individual screen sharing or as Multi-View with up to 4 images, at a touch of a button. The Touch-Back facility allows a presenter to navigate the source (PC, Laptop) from the display side. Furthermore, the presenter can annotate the screen image or just use it as a white-board. The annotated image/white-board can be saved and sent to other delegates. The Moderator facility ensures easy control of presentation with facilities such as, Stop sharing, Full-screen mode, Audio mute, and many more. No cables, No mess, No limitation - Just present at will with ease.

Wand C

Wireless USB-C Dongle for use with Wizard 4 & 4U



The Wand-C is a perfect complement to the Wizard 4 & 4U. It can be used with any PC, laptop, tablet, Media-player, or mobile for easy BYOD wireless connection. Easy to operate without the need for any software to be installed. Simply 'Touch to Show' in single or Multi-View display. The Wand features visual and Haptic feedback to confirm operation choice.

- **Wireless USB-C BYOD dongle**
- **Use with any PC, Laptop, Tablet, Mobile phone**
- **Join in MV mode or in full screen at a touch**
- **Secure and easy to pair up**
- **Requires no software to be installed**
- **Simply Connect & Present**

Wand H

Wireless HDMI Dongle for use with Wizard 4 & 4U



The Wand-H is a perfect complement to the Wizard 4 & 4U. It can be used with any PC, laptop, tablet, Media-player, or mobile for easy BYOD wireless connection. Easy to operate without the need for any software to be installed. Simply 'Touch to Show' in single or Multi-View display. The Wand features visual and Haptic feedback to confirm operation choice.

- **Wireless HDMI BYOD dongle**
- **Use with any PC, Laptop, Tablet, Mobile phone**
- **Join in MV mode or in full screen at a touch**
- **Secure and easy to pair up**
- **Requires no software to be installed**
- **Simply Connect & Present**

SWITCHERS - SEAMLESS/FAST

MFS51-18G



5 input Multi-Format Presentation Fast 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

MFS31-H



Dual HDBaseT + HDMI Fast Switcher



The MFS31-H 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 Cat6 cable up to 70m. The unit is feature packed with a Test Pattern Generator, Cat6 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

SWITCHERS - MULTI-FORMAT/HDMI



MSU-121

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 is suitable for 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**

HDS41A-18G

4x1 HDMI 2.0 Switcher with ARC



A 4 input HDMI 2.0 switcher with de-embedded audio and ARC facility (input 4). Whilst in 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**

SWITCHERS - MULTI-FORMAT/HDMI

MFT62

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 Cat6 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

MFS61-18G

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

VIDEO WALL PROCESSORS

VWP-24-18G

High resolution Video-Wall Processor - HDMI 2.0 18G



VWP-29-18G

High resolution Video-Wall Processor - 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 display's 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 - SEAMLESS

APOLLO 41

4x1 Seamless Switch, Multi-Viewer

4K_{18G}

SEAMLESS



VKA



NEW FOR
2023

The Apollo-41 Multi-Viewer is a 4x1 Seamless Video Switcher with Multi-View capability. It is HDMI 2.0 rated and can handle all resolutions up to 4K60 4:4:4, with full up/down scaler (resolution & refresh rate). The unit can also display in Multi-View mode (Dual, triple, Quad, or PiP), with customisation capability. The de-embed audio is available as optical Toslink as well as L+R analogue output. The break-away audio source can be from any one of the HDMI inputs. The unit can be controlled via front panel buttons, IR remote, RS232 commands.

- 4x1 Seamless switcher
- HDMI 2.0b 4K60 4:4:4 (18G)
- Full up/down scaler – any resolution, any refresh rate
- Multi-View display – Dual, Triple, Quad, PiP
- HDCP 2.2 and HDCP 1.x compliant
- Extensive EDID and HDCP management
- De-embed Audio - Optical Toslink, and L+R Analogue
- VKA – Video Keep Active
- Test Pattern generator

APOLLO 42

4x2 Seamless Matrix, Multi-Viewer

4K_{18G}

SEAMLESS



VKA



NEW FOR
2023

The Apollo-42 Multi-Viewer is a 4x2 Seamless Video Matrix with Multi-View capability. It is HDMI 2.0 rated and can handle all resolutions up to 4K60 4:4:4, with full up/down scaler (resolution & refresh rate) per output. Each output can also independently display in Multi-View mode (Dual, triple, Quad, or PiP), with customisation capability. Each set of de-embed audio outputs are available as optical Toslink as well as L+R analogue output. The break-away audio source can be from any one of the HDMI inputs. The unit can be controlled via front panel buttons, IR remote, RS232 commands.

- 4x2 Seamless video Matrix
- HDMI 2.0b 4K60 4:4:4 (18G)
- Full up/down scaler – any resolution, any refresh rate
- Multi-View display – Dual, Triple, Quad, PiP
- HDCP 2.2 and HDCP 1.x compliant
- Extensive EDID and HDCP management
- De-embed Audio - Optical Toslink, and L+R Analogue
- VKA – Video Keep Active
- Test Pattern generator

APOLLO 41U

4K^{18G} SEAMLESS   VKA 

4x1 Video Seamless KVM (USB 3.0) Switcher, Multi-Viewer



NEW FOR
2023

The Apollo-41U is a 4x1 Seamless KVM with Multi-View capability. It is HDMI 2.0 rated and can handle all resolutions up to 4K60 4:4:4, with full up/down scaler (resolution & refresh rate). The unit can also display in Multi-View mode (Dual, triple, Quad, or PiP), with customisation capability. The de-embed audio is available as optical Toslink as well as L+R analogue output. The break-away audio source can be from any one of the HDMI inputs. Keyboard Hotkey and Roaming mouse facility ensures ease of use and maximises flexibility. The unit can be controlled via front panel buttons, IR remote, RS232 commands.

- 4x1 Seamless KVM switcher with USB 3.0
- HDMI 2.0b 4K60 4:4:4 (18G)
- Full up/down scaler - any resolution, any refresh rate
- Multi-View display - Dual, Triple, Quad
- Hotkey and roaming mouse option
- HDCP 2.2 and HDCP 1.x compliant
- Extensive EDID and HDCP management
- De-embed Audio - Optical Toslink, and L+R Analogue
- 3x USB 3.0 peripheral ports
- Test Pattern generator

KVM41-U3-18G

KVM  

Quad USB 3.0 KVM Switch



NEW FOR
2023

KVM41-U3-18G is a 4 port KVM switch, with 2x HID USB, 2x USB 2.0, 2x USB 3.0 peripherals. The unit is capable of handling all video resolutions up to 4K60 4:4:4 (18G). Input selection can be made using Front panel buttons, RS232, Keyboard Hotkey, or Mouse Hotkey. Extensive EDID and HDCP management facility helps to optimise system set up. Ideal for use anywhere multiple computers are controlled by one operator, for example within Financial Institutions, Transport Control Centres, Education, Conferencing Facilities, Medical Facilities and Hospitality Establishments, to name but a few.

- 4x1 KVM switcher with USB 3.0
- HDMI 2.0, 18Gbps - All resolution up to 4K@60Hz 4:4:4, HDR
- Supports 2x HID USB, 2x USB 2.0, 2x USB 3.0 type-A peripherals
- Supports Dolby Vision, HLG, HDR10, Deep Colour up to 12-bit
- Supports LPCM audio up to 7.1, Dolby Atmos, DTS-X
- Supports HDCP 2.2 and HDCP 1.4
- Extensive EDID and HDCP management
- L/R Analogue Audio de-embedding
- Control - Keyboard hotkey, Mouse hotkey, Front Panel button and RS232
- Optional 1U Rack-Mounting Ears

MATRIX - SEAMLESS

SMS-44-18G

4K^{18G}

SEAMLESS



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), ensures 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 Audio De-embedded Output can select from any Input Source Audio signal, or it can follow the HDMI Output. 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

4K^{18G}

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), ensures 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
- Powerful Up/Down scaler per output
- Flexible Video-Wall capability
- 8x embed and 8x L/R de-embed facility
- 8x8 IR matrix
- Individual input or output locking
- Flexible Mixed Video-Wall capability
- Extensive EDID & HDCP Management
- Control: Front Panel, IR, RS232, LAN
- 1U 19" rack mount

MATRIX - HDMI

MSU44-18G

4x4 HDMI 2.0 18G Matrix



NEW FOR
2023

The MSU44-18G is a 4x4 HDMI matrix switcher with full 18Gbps bandwidth and both analogue and digital audio De-embedding on each of its outputs. Each output can automatically downscale 4K to 2K where necessary to ensure that an image will be received on all Displays. The matrix has four methods of control: Front Panel, RS232, LAN or IR. A front panel locking feature helps prevent accidental operation.

- | | |
|--|---|
| <ul style="list-style-type: none"> • 4x4 HDMI 2.0 (18G) Matrix • HDMI resolution up to 4K60 4:4:4 (18Gbps) • Auto-scaling 4K to 2K per output • HDCP 1.4 and HDCP 2.2 Compliant • Supports HDR10, HLG, & Dolby Vision • Extensive EDID & HDCP Management | <ul style="list-style-type: none"> • 4x Analogue • 4x Digital Coax audio outputs • Control from Front Panel, RS232, LAN & IR • Memory scene Pre-sets • Test Pattern Generator - (Various Resolutions and Colours) • Web Browser GUI |
|--|---|

MSU88-18G

8x8 HDMI 2.0 18G Matrix



NEW FOR
2023

The MSU88-18G is an 8x8 HDMI matrix switcher with full 18Gbps bandwidth and both analogue and digital audio De-embedding on each of its outputs. Each output can automatically downscale 4K to 2K where necessary to ensure that an image will be received on all Displays. The matrix has four methods of control: Front Panel, RS232, LAN or IR. A front panel locking feature helps prevent accidental operation.

- | | |
|--|--|
| <ul style="list-style-type: none"> • 8x8 HDMI 2.0 (18G) Matrix • HDMI resolution up to 4K60 4:4:4 (18Gbps) • Auto-scaling 4K to 2K per output • HDCP 1.4 and HDCP 2.2 Compliant • Supports HDR10, HLG, & Dolby Vision • Extensive EDID & HDCP Management | <ul style="list-style-type: none"> • 8x Analogue + 8x Digital Coax audio outputs • 8x Analogue audio inputs • Control from Front Panel, RS232, LAN & IR • Memory scene Pre-sets • Test Pattern Generator - (Various Resolutions and Colours) • Web Browser GUI |
|--|--|

MATRIX - HDMI

MS42-18G

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. The Auto option ensures automatic input selection, as well as enabling each display to be automatically turned on/off, using CEC or RS232 control.

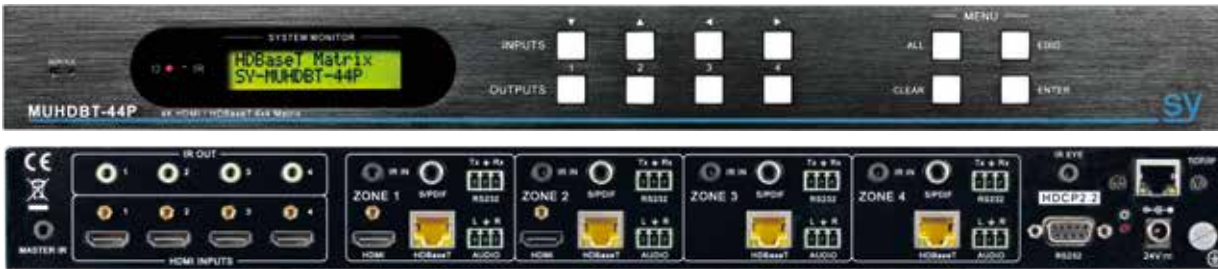
- **4x2 HDMI 2.0 (18Gbps) Scaler Matrix**
- **All resolutions up to 4K60 4:4:4 (18G)**
- **Output Modes: 4K to 1080p scaler, Auto, bypass, HDBT mode**
- **Optical and L/R de-embedded audio per output**
- **Extensive EDID management**
- **Auto Selection and display on/off option**
- **Control: Front panel,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

MATRIX - HDBT

MUHDBT-44P

4x4 HDBaseT Matrix with IR and RS232

4K₃₀



The MUHDBT-44 Matrix provides 2 mirrored HDMI outputs as well as 4x 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

8x8 HDBaseT Matrix with IR and RS232

4K₃₀



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.

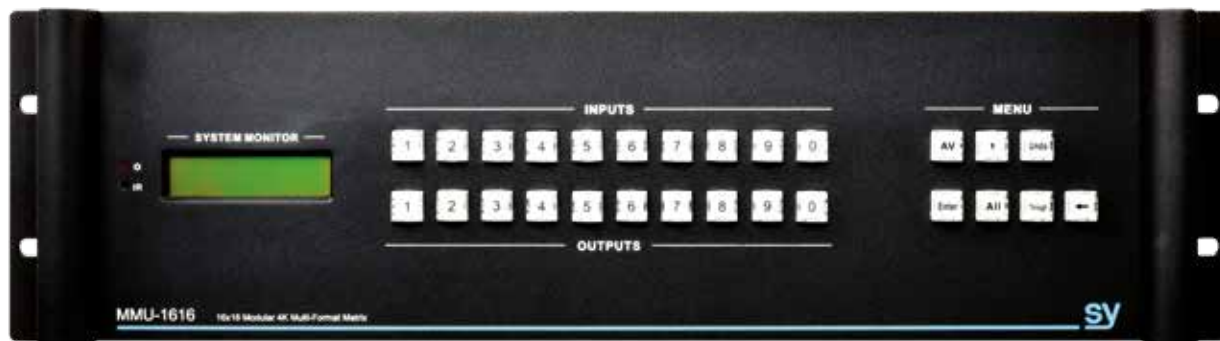
- 8x HDBT + 4x Mirrored HDMI
- Supports resolutions up to 4K @60Hz 4:2:0
- Transmits 4K30 to 40m and 1080p to 70m
- Remote Receivers are powered by the matrix
- Can inject RS232 signals into Receivers via LAN
- Support Bi-directional IR and RS232
- De-embedded audio per output
- Extensive EDID management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

I/O CARDS

Input Cards



Model Numbers:

MC4UHD-I	4 way HDMI + Audio
MC4UBT-I	4 way 4K HDBT + RS232 + Audio
MC4HDS-I	4 way Seamless HDMI + Audio
MC4HBTS-I	4 way Seamless HDBT + RS232 + Audio
MC4DVS-I	4 way Seamless DVI
MC4SD-I	4 way Seamless SDI
MC4VGA-I	4 way Seamless VGA + Audio

Output Cards



Model Numbers:

MC4UHD-O	4 way HDMI + Audio
MC4UBT-O	4 way 4K HDBT + RS232 + Audio
MC4HDS-O	4 way Seamless HDMI + Audio
MC4HBTS-O	4 way Seamless HDBT + RS232 + Audio
MC4DVS-O	4 way Seamless DVI
MC4SD-O	4 way Seamless SDI
MC4VGA-O	4 way Seamless VGA + Audio

EXTENDERS - FIBRE

UFM-4K

Mini 4K over Fibre Extender

4K₃₀



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 I.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

4K HDMI over Fibre Extender - RS232, USB

4K₃₀ - 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 I.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



SLIM 70 PRO

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 Cat6 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. The HPD Control function can force 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.

- | | |
|--|---|
| <ul style="list-style-type: none"> • Single Cat6 to 70m @1080p or 40m @4K • Resolution Scaling 4K to 1080p or Colour Space Scaling 4:4:4 to 4:2:0 • HDCP 1.4/2.2 management • Test Pattern Generator • Video Keep Alive option • Audio de-embedder • Cable length measurement | <ul style="list-style-type: none"> • 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 |
|--|---|

SLIM 70 EDGE

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 Cat6 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)

100 SLIM

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 Cat6 cable. Supports bi-directional IR and RS232, as well as CEC and PoC over a single Cat6 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)

ARC 100 SET

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 Cat6 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)

EXTENDERS - MULTI-FORMAT

MFT-31C

4K₃₀

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 Cat6 cable. The remote display can be manually or automatically switched on/off using CEC or RS232.

- 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
- UK versions also available in White finish

MFT-31V

4K₃₀

Wall Mounted Multi-Format HDMI and VGA Switcher Transmitter



A feature 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 Cat6 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 versions available in Aluminium finish
- UK versions also available in White finish

EXTENDERS - USB

Xcalibur 11U

HDMI & USB Extender



Using HX technology, Xcalibur 11U can extend HDMI 2.0 (18G) video signals along with USB 2.0 data for use with KVM etc. Transmit HDMI 2.0 up to 4K60 4:4:4 to **100m** over a single Cat6, with Auto Down-Scaling, EDID & HDCP control. The USB 2.0 can handle Video, Keyboard/Mouse and USB storage.

- **HDMI 2.0b** – Supports up to 4K60 4:4:4 (18Gbps)
- **USB 2.0** – Supports all USB 2.0 or below, to 170 Mbps max.
- Supports Bulk, Control, Interrupt, and Isochronous Transfers
- Transmission distance: 100m
- Auto 4K to 1080p intelligent Scaler
- **HDCP 1.4/2.2 compliant**
- **HDCP management**
- **EDID management**
- **Bi-directional IR**
- **PoC** – Requires only one PSU at the Transmitter or Receiver

USB-50

USB 2.0 over Cat6 Extender



The USB-50 extender can extend USB 2.0 data at maximum rate up to 50m using a single Cat6 cable. Only the receiver requires a power supply. Full compliance of all USB 2.0 formats ensures flawless operation, including Video and Audio streams. 2x USB-A connectors are available at the receiver. Simply Plug & Go.

- **USB 2.0 over Cat6 extender to 50m**
- Supports all USB 2.0 or below, to 480 Mbps max.
- Supports Bulk, Control, Interrupt, and Isochronous Transfers
- Perfect for Keyboard, mouse, video, and audio
- Only one PSU at the receiver end

USB-100

USB 2.0 over Cat6 Extender



The USB-100 extender can extend USB 2.0 data at 170 Mbps up to 100m using a single Cat6 cable. Use a PSU at both the Transmitter and Receiver. Full compliance of all USB 2.0 formats ensures flawless operation, including Video and Audio streams. 2x USB-A connectors are available at the receiver. Simply Plug & Go.

- **USB 2.0 over Cat6 extender to 100m**
- Supports all USB 2.0 or below, to 170 Mbps max.
- Supports Bulk, Control, Interrupt, and Isochronous Transfers
- Perfect for Keyboard, mouse, video, and audio

SPLITTERS - HDBT

HDBT-282-S

Dual HDMI to 8+2 HDBaseT Splitter

4K₃₀



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)

HDBT-662

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

4K₃₀



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

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 an HDMI loop out. The HDBaseT outputs transmit 4K30 UHD videos up to 40m and 1080p to 70m. The unit can power any SY HDBT Slim Receiver. 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 an HDMI loop out. The HDBaseT outputs transmit 4K30 UHD videos up to 70m and 1080p to 100m. The unit can power any SY HDBT Slim Receiver. 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)

SPLITTERS - HDMI

HS12E-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. Also capable of powering SY-Centaur AOC cables for longer distances (up to 100m).

- 1x2 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
- Extensive EDID management
- Slim and compact

HS14E-18G

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. Also capable of powering SY-Centaur AOC cables for longer distances (up to 100m).

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

HS18-18G

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

4K18G

Dual Input 2x 50W Stereo Audio Amplifier with RS232 Control



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)

3A-40W

4K18G

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

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

AUDIO - DE-EMBEDDERS

AD-18G

HDMI 2.0 Audio De-embedder - 18G

4K 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**

CONTROL - 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

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



HV2M-B2 Dual High Voltage Motor Relay, is specifically designed for controlling 240V bi-directional AC motors as used in projection screens/lifts. The built-in failsafe feature prevents both of the relay outputs from being active simultaneously. It interfaces directly with any SY series keypad or any other control system, providing isolated output contacts.

- 2 none overlapping HV relays - NO, NO contacts
- Motor protection - Only one relay allowed to energise at a time
- Total input/output isolation
- Simple interface with SY Keypad controllers
- Control projection screen/lift, shades, etc

CONTROL - ACCESSORIES

LV2-DIN

Dual Change-over DIN Relay



The LV2-DIN provides two independently controllable change over relay contacts that can switch up to 12V DC at 20A max, or 240V at 5A. Simple interface with all SY Keypad controllers

- 2 independent Change Over Relays - NO, NC contacts
- Contact rating - 48V 5A, 240V 3A
- Suitable for switching external lighting/screen controllers
- Simple interface with SY Keypad controllers
- DIN rail mounting

HV2C-DIN

Dual Normally Open DIN Relay



HV2C-DIN provides two independent Normally Open (NO) relay outputs, with contact ratings of 240V AC at 7A. Simple interface with SY Keypad controllers with total isolation.

- 2 independent HV relays - Normally Open (NO) contacts
- Contact ratings of 240V at 7A
- Total input/output isolation
- Simple interface with SY Keypad controllers
- Control projection screen/lift, shades, etc

INPUT PLATES

Wide range of different input plates. Below are some of the popular items. Please get in touch with us for full available range.



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-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

INPUT PLATES

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-2HVU

2x HDMI, VGA & USB-B Input Plate



Dual gang 2x 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.

- **2x 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 double gang options**
- **Available in pearl white**

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 double gang options**
- **Available in pearl white or brushed aluminium**

SIGNAL MANAGEMENT

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

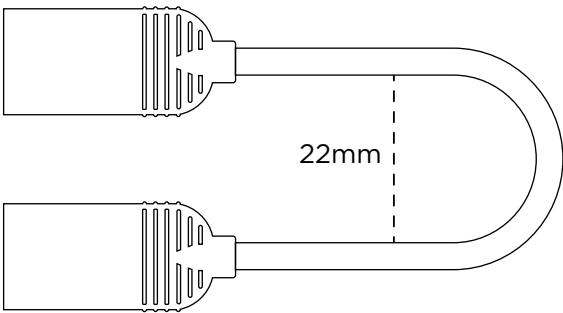
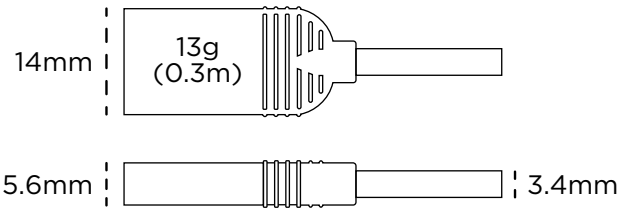
STEALTH-18G

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 which exhibits a High-Grip, ensuring connection integrity and avoiding accidental disconnection. 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.

- | | |
|--|---|
| <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• 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 |
|--|---|



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

CENTAUR ARMORED AOC

4K 18G

18G HDMI 2.0 Armored AOC Cable


NEW FOR
2023

The Centaur Armoured 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.

- 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
- Armoured - Protected with spiral stainless steel covering
- 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
- 70Kg pull weight

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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