

AV Signal Distribution & Connectivity

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includes 36
brand new
products!



HDMI over Cat-X



HDMI over Fibre



VGA over Cat-X



DVI over Cat-X/Fibre



PDUs



Faceplates



Cables

Introduction

CIE-Group – one of the UK's most experienced suppliers of high quality and innovative products for the professional installation sector - is the exclusive UK supply partner for the DataBay range of AV signal distribution products.

Developed for ease, speed and flexibility of installation for applications such as digital signage, video distribution and home cinema; this latest catalogue includes a whole host of brand new video-over-Cat-X and video-over-fibre solutions for HDMI, DVI and VGA, as well as a new range of monitored power distribution units (PDUs) and all the latest products from our AV faceplate and cabling range.

In addition to our vast range of standard stock products, CIE-Group specialise in custom solutions to meet your specific technical/branding requirements.

Our team of advisors are on-hand to discuss your bespoke connectivity needs and to design a solution which meets both specification and budget. See 'Custom Solutions' on page 38 for examples of our bespoke solution capabilities.



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AV Signal Distribution & Connectivity

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HDMI Products

HDMI (High Definition Multimedia Interface) was introduced c2004 and was a major step forward in AV signal transmission as it not only offers superior digital video, but also incorporates the audio signal as well.



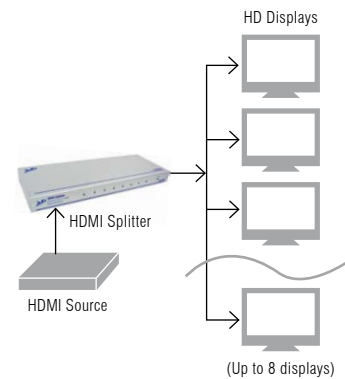
New SP-H00102-0B / 104-0B / 108-0B: 2, 4 and 8 - Port HDMI Splitters

Our HDMI Splitter Series provides a simple, high performance solution to broadcast a single HDMI source to 2, 4 or 8 output displays, therefore providing multiple displays of a single HDMI source such as Blu-ray player, HD TV, PS3, etc.

Features:

- Conforms to HDMI 1.3 specifications
- Fully HDCP 1.1 compliant
- 2, 4 or 8 HDMI display outputs from 1 HD source
- Maximum broadcast distance of 30 metres

Typical Configuration:



• Rear Panels



SP-H00102-0B



SP-H00104-0B



SP-H00108-0B

• SP-H00102-0B



• SP-H00104-0B



• SP-H00108-0B



Specifications:

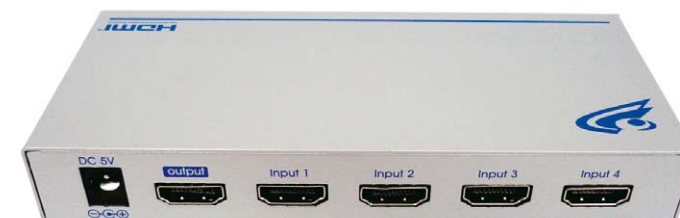
Model:	SP-H00102-0B:	SP-H00104-0B:	SP-H00108-0B:
Description	2 port HDMI Splitter	4 port HDMI Splitter	8 port HDMI Splitter
Video Support	480i/720i/480p/720p/1080i/1080p	480i/720i/480p/720p/1080i/1080p	480i/720i/480p/720p/1080i/1080p
Transmission	Full HD (1080p) ~ 30m	Full HD (1080p) ~ 30m	Full HD (1080p) ~ 30m
EDID Emulation	Yes	Yes	Yes
Input	HDMI x 1	HDMI x 1	HDMI x 1
Output	HDMI x 2	HDMI x 4	HDMI x 8
HDMI Connector	HDMI Type A (19-pin female)	HDMI Type A (19-pin female)	HDMI Type A (19-pin female)
Display LED	2	4	8
Power Supply	5v / 1A DC	5v / 2.6A DC	5v / 2.6A DC
Maximum Cable Distance	30m	30m	30m
Dimensions	23(H) x 149(W) x 64(D) mm	23(H) x 149(W) x 64(D) mm	32(H) x 336(W) x 122(D) mm

SW-H00401-0B: 4 In/1 Out HDMI Switch

Featuring four HDMI inputs to a single HDMI output, this unit provides fast and effective switching of up to four high definition video/audio sources such as Blu-ray players, games consoles, cable TV, HD and DVD signals.

Features:

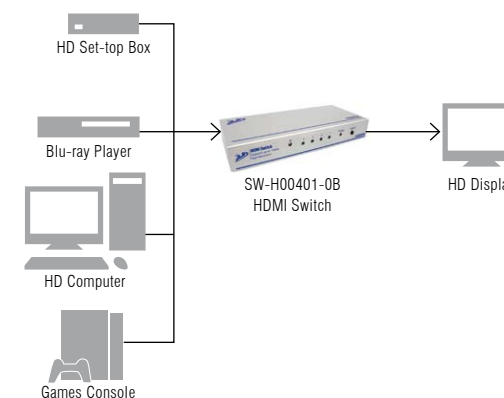
- Conforms to HDMI 1.3 specifications
- Fully HDCP 1.1 compliant
- Compatible with all HDMI-equipped devices and HDCP-enabled HDTV devices
- Push button or remote switching of HDMI device ports
- Maximum signal transfer distance of 30 metres
- Ideal for home theatre, conference room and retail display applications



Specifications:

Model:	SW-H00401-0B:
Description	4 port HDMI Switch
Source Inputs	HDMI x 4
Extension Output	HDMI x 1
Display	4 x Input Device LED, 1 x Power
EDID Emulation	Yes
Power Supply	5v DC, 2.6A
Operating Temperatures	0 ~ 50°C
Housing	Metal
Dimensions	23(H) x 149(W) x 64(D) mm
Weight	0.28kg

Typical Configuration:



New MT-H00404-0C: 4 x 4 HDMI Matrix Switch

The MT-H00404-0C 4 x 4 HDMI Matrix Switch allows users to route high definition video sources and multi-channel (up to 7.1-channel) digital audio from any of four HDMI sources to any of four remote displays at the same time.

This solution is well suited for use in home theatre, conference room presentation systems, digital signage and information displays, etc.

Features:

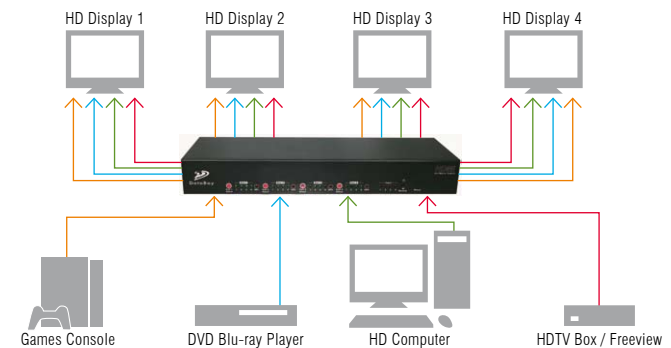
- HDMI 1.3 compliant / HDCP compliant
- Allows any source to be displayed on multiple displays and any display to view any source at the same time
- Supports video quality up to 1080p
- Supports default HDMI EDID and learns the EDID of displays
- Supports push button, IR remote control and RS-232 control to switch any output channel to any HDMI input
- Supports 7.1 channel digital audio
- Maximum total transmission distance (source-to-Matrix + Matrix-to-output display) of 30 metres



Specifications:

Model:	MT-H00404-0C:
Video Support	480i/480p/720p/1080i/1080p
Transmission	Full HD (1080p) - 30m
Audio Support	Surround sound (up to 7.1ch) or stereo digital audio
Input	HDMI x 4, RS-232 x 4
Output	HDMI x 4
HDMI Input Selection	Push Button / IR Remote / RS-232
HDMI Connector	Type A (19-pin female)
RS-232 Connector	DE-9 (9-pin D-sub female)
3.5mm Connector	3.5mm jack for stereo audio
Dip Switch	EDID/Audio mode
Power Supply	5v / 6A DC
Power Input	20W (max)
Operation Temperature	0 ~ 40°C (32 ~ 104°F)
Relative Humidity	20 ~ 90% RH (no condensation)
Dimensions	44(H) x 340(W) x 110(D) mm

Typical Configuration:



New Compact HDMI over Cat-X Extender Kit

Utilising cost effective and readily available single Cat-X cable, these units allow extended distances to be quickly covered between AV source and display devices. The configuration is normally in the form of a transmit unit and receive unit. Ideal for digital signage applications.

- **ET-HC0101-T** - Transmitter



Mini HDMI to Cat-X converter, perfect for HDMI expansion / digital signage whilst minimising the use of expensive HDMI cables.

Normally used in conjunction with a **ET-HC0101-R** Cat-X to HDMI receiver (right).

- **ET-HC0101-R** - Receiver



Mini Cat-X to HDMI converter, which is normally used with the **ET-HC0101-T** transmitter (left). However, it is also compatible with other DataBay HDMI transmitters shown on page 12. The receiver has built-in EQ to allow fine tuning of the video image.



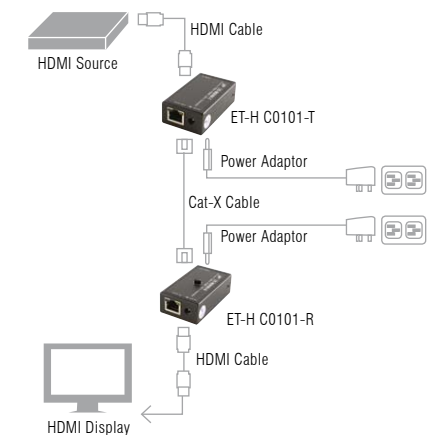
- Incredibly compact sized units

Specifications:

Model:	ET-HC0101-T:	ET-HC0101-R:
Description	Mini HDMI Cat-X transmitter	Mini HDMI Cat-X receiver
AV Inputs	HDMI x 1	RJ-45 x 1
AV Remote Outputs	RJ-45 x 1	HDMI x 1
Resolution and Transmission Distance	480p @ 80m, 1080i / 720p @ 60m / 1080p @ 30m	480p @ 80m, 1080i / 720p @ 60m / 1080p @ 30m
Power	5v DC	5v DC
Dimensions	21(H) x 69(W) x 39(D) mm	21(H) x 69(W) x 39(D) mm

The use of low skew Cat-X cable is recommended for best performance.

Typical Configuration:



New ET-HK0101-MC KIT:
HDMI over Single Cat-X Extender

This HDMI 1.3 over Cat-X Kit extends single HDMI video/audio signals over a transmission distance of up to 40 metres in HDTV 1080p format and up to 60 metres in 1080i format.

Utilising only one cost-effective Cat-X LAN cable, your HD source signal can be extended to a HD display sited a significant distance from source.

Features:

- HDMI 1.3c compliant
- HDCP 1.1 compliant
- Supports 1080p up to 40 metres, 1080i up to 60 metres
- Adjustable 8-level EQ control switch to minimise cable skew
- Supports DTS-HD and Dolby True HD high bit rate audio

Specifications:

Model:	ET-HK0101-TC:	ET-HK0101-RC:
Unit	Transmitter	Receiver
Video Support	480i / 480p / 720p / 1080i / 1080p	
Transmissions	Full HD (1080p) ~ 40m (130ft) (CAT-5e) / 50m (165ft) (CAT-6) HD (720p/1080i) ~ 50m (165ft) (CAT-5e) / 60m (200ft) (CAT-6)	
Audio Support	Surround sound (up to 7.1ch) or stereo digital audio	
Equalization	8 level digital control at RX	
Input	HDMI x 1	RJ-45 x 1
Output	RJ-45 x 1	HDMI x1
HDMI Connector	Type A (19-pin female)	
RJ-45 Connector	WE/SS 8P8C with 2 LED indicators	
Power Supply	Inter-lock 5V / 4A DC	
Power Input	1 Watt (max)	
Dimensions	25(H) x 85(W) x 60(D) mm	

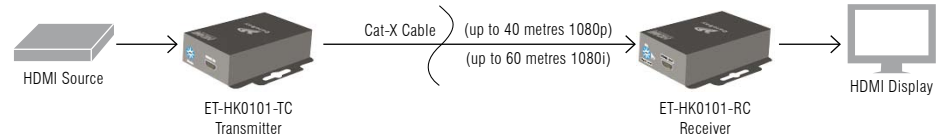
• Transmitter



• Receiver



Typical Configuration:



New ET-HD0101-MC: HDMI over Cat-X Extender Kit with IR Control Path

This HDMI 1.3 over Cat-X Kit extends single HDMI video/audio signals over a transmission distance of up to 40 metres in HDTV 1080p format and up to 60 metres in 1080i format.

IR Control Path

In addition, this HDMI over Cat-X extender kit also includes IR Control Path feature which allows the remote control functionality of your HD source (eg. Blu-ray / DVD player remote control) to function at the 'output display' end of the system, even though the HD source may be sited up to 60 metres away.

Features:

- HDMI 1.3c compliant
- HDCP 1.1 compliant
- Embedded IR (infrared) control path
- Supports 1080p up to 40 metres, 1080i up to 60 metres
- Adjustable 8-level EQ control switch to minimise cable skew
- Supports DTS-HD and Dolby True HD high bit rate audio

Specifications:

Model:	ET-HD0101-MC-TC:	ET-HD0101-MC-RC:
Unit	Transmitter	Receiver
Video Support	480i / 480p / 720p / 1080i / 1080p60	
Transmissions	Full HD (1080p) ~ 40m (130ft) (CAT-5e) / 50m (165ft) (CAT-6) HD (720p/1080i) ~ 50m (165ft) (CAT-5e) / 60m (200ft) (CAT-6)	
Audio Support	Surround sound (up to 7.1ch) or stereo digital audio	
Equalization	8-level digital control at RX	
Input	HDMI x 1	RJ-45 x 1
Output	RJ-45 x 1	HDMI x 1
HDMI Connector	Type A (19-pin female)	
RJ-45 Connector	WE / SS 8P8C with 2 LED indicators	
Power Supply	Inter-lock 5v / 4A DC	
Power Input	1 Watt (max)	
Dimensions	25(H) x 85(W) x 60(D) mm	

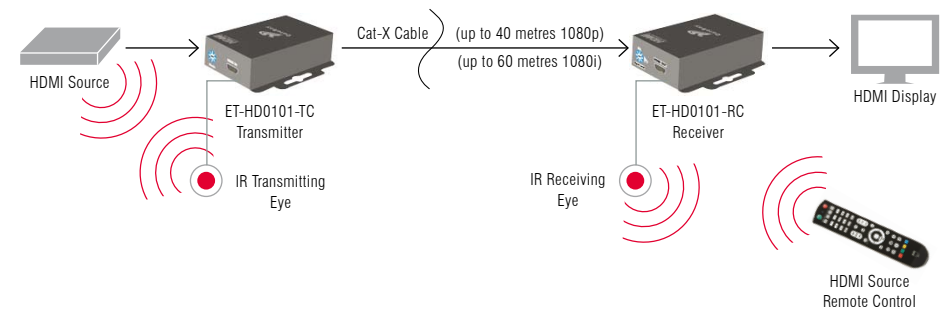
• Transmitter



• Receiver



Typical Configuration:



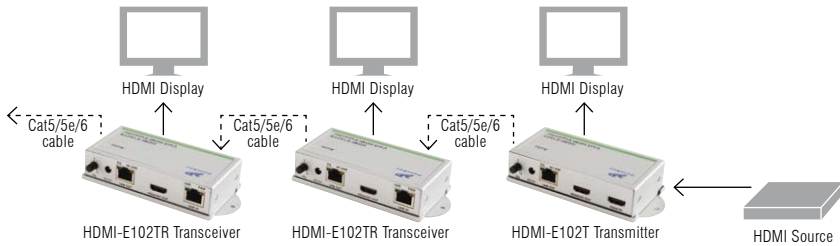
HDMI over Cat-X Range Extenders

By using a combination of DataBay HDMI transmitters and transceivers, HDMI signals can be expanded via Cat-X cable, with almost unlimited capacity, making them ideal for high quality video distribution.

Features:

- Almost unlimited cascading capacity
- Local HDMI outputs
- Compliant with HDMI 1.2 and DVI 1.0
- Compatible with 480p, 720i, 720p, 1080i and 1080p
- Built-in EQ for improved image quality

Typical Configurations:



Transmitter:

One-port transmitter with local HDMI port for a monitor if required. The unit includes a HDMI cable to connect to the HDMI source.

Output is then via Cat-X cable to further transceivers.

- **HDMI-E102T** - Transmitter



Transceivers:

Consisting of an RJ-45 Cat-X input from a transmitter or transceiver, a local HDMI output and an onward RJ-45 Cat-X connectivity to further devices. Models are available as 1, 4 or 8 RJ-45 output port versions.

- **HDMI-E102TR** - 1 port Transceiver



The recommended receivers for use with the 4 and 8 port transceivers below are the ET-HC0101-R (pg07) or HDMI-HR (pg12).

- **HDMI-E104C** - 4 port Transceiver



- **HDMI-E108C** - 8 port Transceiver



Specifications:

Model:	HDMI-E102T:	HDMI-E102TR:	HDMI-E104C and HDMI-E108C:
Description	One-port transmitter	One-port transceiver	4 and 8 port transceivers
AV Inputs	HDMI female x 1	RJ-45 x 1	HDMI female x 1
AV Outputs	HDMI female x 1, RJ-45 x 1	HDMI female x 1, RJ-45 link out x 1	HDMI female x 1, RJ-45 HDMI out x (HDMI-E104C:4 / HDMI-E108C:8), RJ-45 link out x 1
Max Distance and Resolution	480p with each cascading length < 80m, 720/1080i with each cascading length < 70m, 1080p with each cascading length < 30m		
Video Control	EQ x 1	EQ x 1	EQ x 1
Signal Type	HDMI	HDMI	HDMI
Power Consumption	5v DC, 750mA	5v DC, 750mA	HDMI-E104C: 5v DC, 1.8A / HDMI-E108C: 5v DC, 2.5A
Housing	Metal	Metal	Metal
Dimensions	29(H) x 113(W) x 62(D) mm	29(H) x 113(W) x 62(D) mm	44(H) x 240(W) x 130(D) mm

New ET-HF0101-MG200: HDMI Fiber Optic Extender Kit (Multi-mode SC type)

This HDMI over Fiber Optic Extender Kit will boost your high resolution video/audio signal distance by up to 200 metres, whilst ruling out any RF interference issues characteristic of traditional copper wire cable.

Ideal for a wide range of video and signage applications requiring remote HDMI display.

Features:

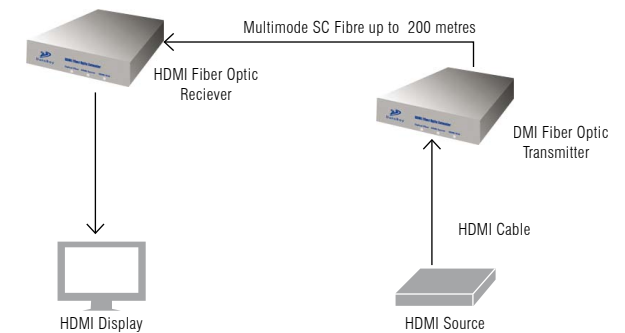
- HDMI 1.3c compliant
- HDCP fully compliant without copper wire
- Long distance video and audio transmission - up to 200 metres
- Supports high resolution image quality
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1



Specifications:

Model:	ET-HF0101-TG200:	ET-HF0101-RG200:
Model Name	HDMI Fiber Optic Transmitter	HDMI Fiber Optic Receiver
Maximum Resolution	1920x1080	
Maximum Length	1920 x 1080-200m [62.5/ 125 MMF]	
Input	HDMI x 1	SC x 2
Output	SC x 2	HDMI x 1
HDMI Connector	Type A (19-pin female)	
Fiber Optic Connector	SC Type	
Optical Property	VCSEL 850nm @ - 6dBm FP LD 1550 nm @ - 3dBm FP LD 1310 nm @ - 3dBm	
Power Supply	5v / 600mA DC	
Dimensions	26(H) x 145(W) x 95(D) mm	

Typical Configurations:



o RJ-45/HDMI Receiver (non-powered)

Suitable as a short-range receiver (up to 10m) converting from RJ-45 to HDMI. This non-powered device plugs directly into a monitor's HDMI socket.

Note: some displays (particularly Samsung brand products) require a power source to function correctly; in this case please use the powered product below.

- **HDMI-HR** - Receiver (non-powered)



o RJ-45/HDMI Receiver (powered)

A powered version of the above product. This is required on some brands of flat screen displays, particularly Samsung products.

- **ET-HC0101-Z** - Receiver (powered)



o HDMI Cables

HDMI cables suitable for distributing high quality digital video and audio. These cables are ideal for use with the Databay HDMI equipment shown on pages 4~11.

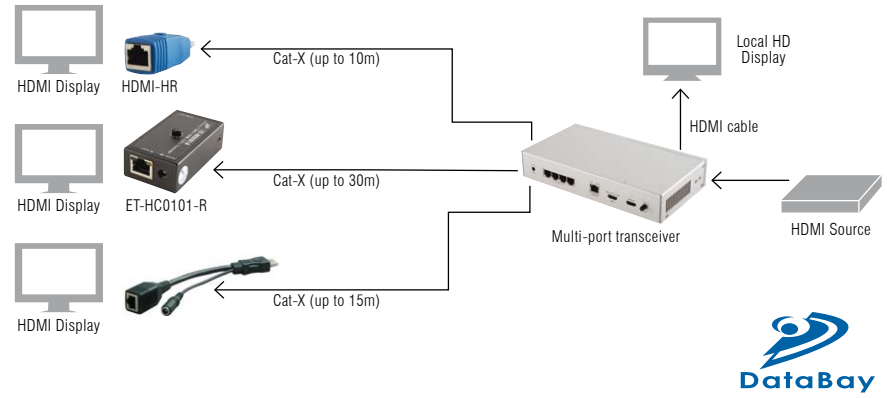
Featuring gold-plated connectors for improved performance, these cables are HDMI 1.3b compliant.

Part Numbers:

- **HDMI1MTR** 1 metre
- **HDMI3MTR** 3 metres
- **HDMI5MTR** 5 metres
- **HDMI10MTR** 10 metres



Typical Configuration (at 1080p):



o HDMI Adaptors

- HDMI ~ HDMI F/F - HDMI to HDMI coupler



HDMI ~ DVI Adaptor Part Numbers:

- HDMI-DVI F/M Adaptor HDMI Female to DVI-D Male
- HDMI-DVI M/F Adaptor HDMI Male to DVI-D Female



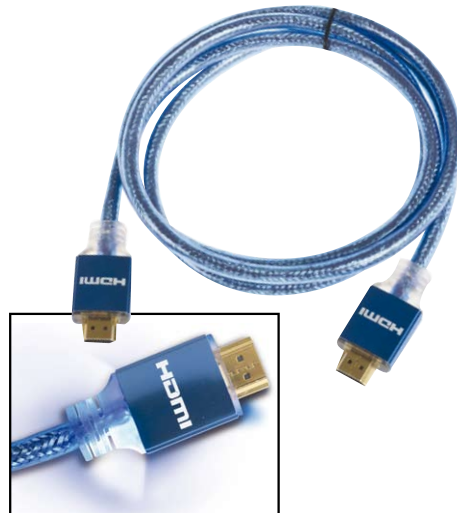
New Blue LED HDMI 1.4 Cable

High quality and distinct male-to-male cables featuring blue LED-lit connectors and robust, flexible blue nylon braiding.

With gold-plated connectors for high performance, these cables are HDMI 1.4 compliant.

Part Numbers:

- STA-L5010B-1M 1 metre
- STA-L5010B-2M 3 metres
- STA-L5010B-5M 5 metres
- STA-L5010B-10M 10 metres



New High Performance HDMI 1.4 Cable

High performance HDMI 1.4 compliant cable, featuring gold-plated connectors.

Part Numbers:

- STA-5010-1M-BLUE 1 metre
- STA-5010-3M-BLUE 3 metres
- STA-5010-5M-BLUE 5 metres
- STA-5010-10M-BLUE 10 metres



Also available in Red...



and Green...



o HDMI ~ DVI Cables

Convenient convertor cables, allowing HDMI sources to be connected to DVI-D equipment and vice-versa.

Part Numbers:

- HDMI-DVI 2M HDMI to DVI-D 2 metres
- HDMI-DVI 5M HDMI to DVI-D 5 metres



Signal Distribution

VGA Products

Although only analogue, VGA is still a dominant force in the AV sector and will be for some time. Centred around the 15 way High Density 'D' type connector, we have equipment to distribute and interconnect VGA signals (including audio!) in a variety of configurations.



◦ VGA Splitters

With 350MHz bandwidth these units allow video to be simultaneously displayed across multiple displays quickly and effectively. The bases of the units are magnetic to allow for easy attachment to most metal surfaces.

- **VS-201H** - 1 in, 2 out Splitter



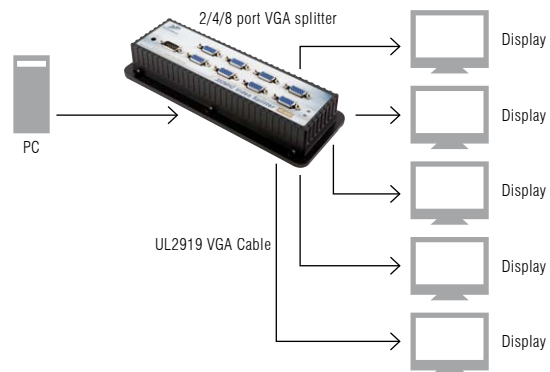
- **VS-401H** - 1 in, 4 out Splitter



- **VS-801H** - 1 in, 8 out Splitter



Typical Configuration:



Specifications:

Model:	VS-201H:	VS-401H:	VS-801H:
Power Consumption	DC 9v; 200mA	DC 9v; 200mA	DC 9v; 200mA
Cable Distance	65m (210 feet) max	65m (210 feet) max	65m (210 feet) max
Signal Type	VGA, SVGA, XGA, Multi-sync, TFT-LCD monitor	VGA, SVGA, XGA, Multi-sync, TFT-LCD monitor	VGA, SVGA, XGA, Multi-sync, TFT-LCD monitor
Connector	Input: HD15 male x 1 / Output: HD15 female x 1	Input: HD15 male x 1 / Output: HD15 female x 4	Input: HD15 male x 1 / Output: HD15 female x 8
LED Display	Power indicator x 1, Active indicator x 1	Power indicator x 1, Active indicator x 1	Power indicator x 1, Active indicator x 1
Enclosure	Plastic	Plastic	Plastic
Dimensions	23(H) x 100(W) x 56(D) mm	36(H) x 220(W) x 80(D) mm	36(H) x 220(W) x 80(D) mm

New SW-VA0201: 2 in, 1 out VGA and Audio Switch

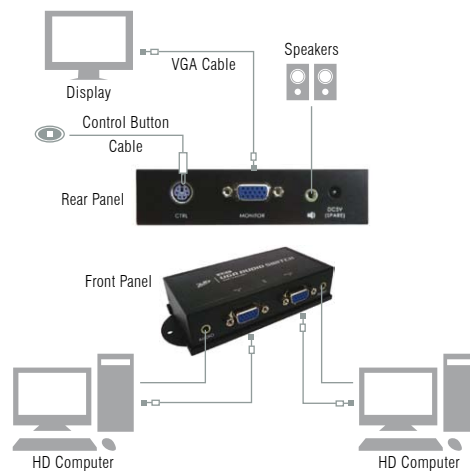
Switches VGA video and audio signals from two different sources to one set of display monitor and amplifier (or powered speakers).

Features:

- Manual switching via supplied lead
- Supports VGA, XGA SVGA and TFT-CCD monitors and projectors
- Includes magnetic plate accessory for fast simple installations
- Passive unit (requires no power source)



Typical Configuration



Specifications:

Model:	SW-VA0201:
Input 5	VGA x 2 / 3.5mm Jack x 2
Output	VAG x 1 / 3.5 mm Jack x 1
Resolution	1920 x 1200
Audio	Stereo
Selection Method	Manual Select Button
Power Source	Passive Unit (no power required)
Enclosure	Metal
Dimensions	27(H) x 133(W) x 62(D) mm



VGA over Cat-X Range Extenders (up to 300m)

Utilising cost effective and readily available Cat-X cable, these units allow extended distances to be quickly and easily covered between AV source and display devices.

In the basic form, the configuration is a Transmit unit and a Receive unit; however, source signals can also be split to provide simultaneous multiple displays if required.

Whilst VGA is video only, these devices cleverly allow for the transmission of the audio signal as well!

Transmitters:

- **AVE-301T** - 1 port Transmitter



- **AVE-308T** - 8 port Transmitter



- **AVE-304T** - 4 port Transmitter



- **AVE-316T** - 16 port Transmitter



Specifications:

Model:	AVE-301T:	AVE-304T:	AVE-308T:	AVE-316T:
Description	1 port transmitter	4 port transmitter	8 port transmitter	16 port transmitter
AV Inputs	VGA x 1, 3.5mm jack x 1	VGA x 1, 3.5mm jack x 1	VGA x 1, 3.5mm jack x 1	VGA x 1, 3.5mm jack x 1
AV Outputs	VGA x 1, RJ-45 x 1, 3.5mm jack x 1	VGA x 1, RJ-45 x 4, 3.5mm jack x 1	VGA x 1, RJ-45 x 8, 3.5mm jack x 1	VGA x 1, RJ-45 x 16, 3.5mm jack x 1
LED	Two colour LEDs	Two colour LEDs	Two colour LEDs	Two colour LEDs
Video quality	Maximum VGA resolution and distance: 2048 x 1536 @ 300m	Maximum VGA resolution and distance: 2048 x 1536 @ 300m	Maximum VGA resolution and distance: 2048 x 1536 @ 300m	Maximum VGA resolution and distance: 2048 x 1536 @ 300m
Dimensions	29(H) x 113(W) x 62(D) mm	44(H) x 240(W) x 130(D) mm	44(H) x 240(W) x 130(D) mm	44(H) x 240(W) x 130(D) mm

Transceivers:

- AVE-304TR - 4 port Transceiver



- AVE-308TR - 8 port Transceiver

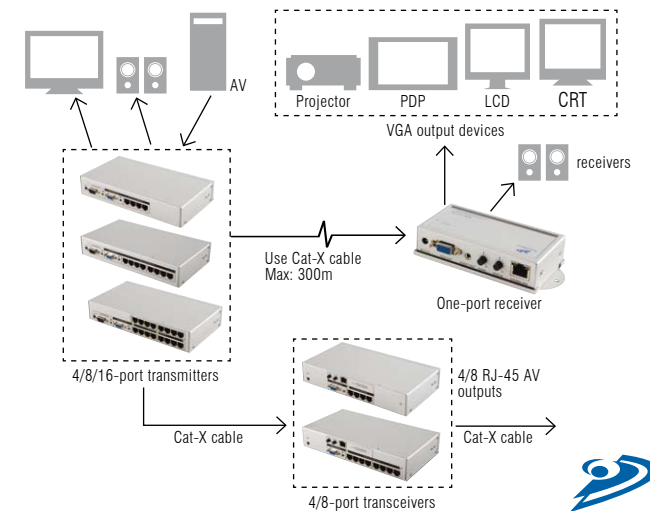
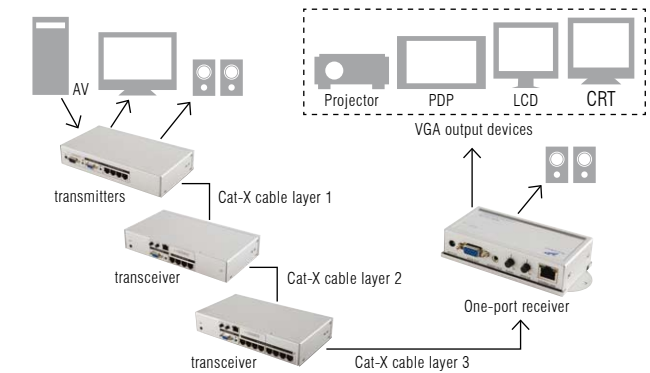
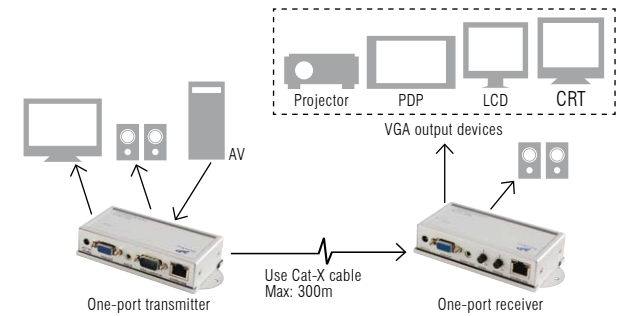


Receiver:

- AVE-301R - 1 port Receiver



Typical Configurations:



Specifications:

Model:	AVE-304TR:	AVE-308TR:	AVE-301R:
Description	4 port AV transceiver	8 port AV transceiver	1 port receiver
AV Inputs	RJ-45 x 1	RJ-45 x 1	RJ-45 x 1
AV Outputs	RJ-45 x 4, VGA x 1, 3.5mm jack x 1	RJ-45 x 8, VGA x 1, 3.5mm jack x 1	VGA x 1, 3.5mm jack x 1
LED	Two colour LEDs	Two colour LEDs	Two colour LEDs
Video Quality	Maximum VGA resolution and distance: 2048 x 1536 @ 300m	Maximum VGA resolution and distance: 2048 x 1536 @ 300m	Maximum VGA resolution and distance: 2048 x 1536 @ 300m
Dimensions	44(H) x 240(W) x 130(D) mm	44(H) x 240(W) x 130(D) mm	29(H) x 113(W) x 62(D) mm

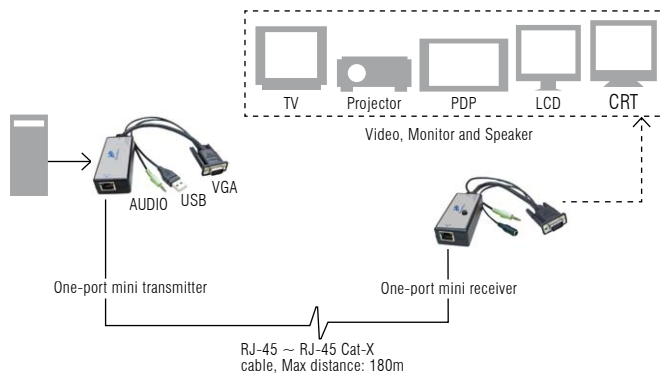
New AVE-M180TR: One-port VGA+Audio Mini Extender Kit

Possibly the world's smallest VGA+Audio Extender Kit, transmitting VGA and Audio over CAT-X cable up to 180m. Each kit is supplied with both the transmitter and receiver units.

Features:

- Super compact design, allowing direct connection into the VGA sockets
- Pure hardware design, no software
- Support for VGA, SVGA, XGA, TFT, LCD and DDC2B function
- Transmitter takes power from USB port
- Receiver has built-in EQ adjustment for improved image quality
- Carries both Audio and Video signals
- Broadcast distance up to 180 metres

Typical Configurations:



Specifications:

Model:	AVE-M180T Transmitter:	AVE-M180R Receiver:
Description	Super mini AV transmitter	Super mini AV receiver
AV Inputs	VGA x 1, 3.5mm jack x 1	RJ-45 x 1
AV Outputs	RJ-45 x 1	VGA x 1, 3.5mm jack x 1
Video Control	-	Video EQ
LED	Power and video status	Power and video status
Video Quality	Maximum VGA resolution and distance: 2048 x 1536 @ 180m	Maximum VGA resolution and distance: 2048 x 1536 @ 180m
Power Source	5v DC from USB Port	5v DC supply
Environmental Condition	Operation temp: 0~50°C, Storage temp: -20~60°C, Humidity: 10~90%	Operation temp: 0~50°C, Storage temp: -20~60°C, Humidity: 10~90%

• AVE-M180TR - Transmitter



• AVE-M180TR - Receiver



◦ VGA Cables

15 way Male-to-Female and Male-to-Male cables.

Part Numbers (Male-to-Female):

- TSVGALEAD0.5M/F 0.5 metres
- TSVGALEAD5.0M/F 5 metres
- TSVGALEAD15.0M/F 15 metres

Part Numbers (Male-to-Male):

- TSVGALEAD0.5M 0.5 metres
- TSVGALEAD1.0M 1 metre
- TSVGALEAD2.0M 2 metres
- TSVGALEAD3.0M 3 metres
- TSVGALEAD5.0M 5 metres
- TSVGALEAD10.0M 10 metres
- TSVGALEAD15.0M 15 metres
- TSVGALEAD20.0M 20 metres

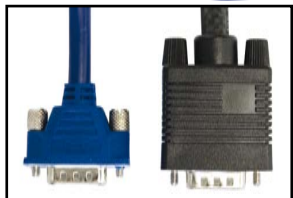


Low Profile Male-to-Male VGA Cable

Low Profile VGA cables are unobtrusive, and attractively designed. Ideal for use in highly visible areas or in racks where space may be limited.

Part Numbers:

- LPVGA-M/M-1.0M 1 metre
- LPVGA-M/M-3.0M 3 metres
- LPVGA-M/M-5.0M 5 metres
- LPVGA-M/M-10.0M 10 metres
- LPVGA-M/M-15.0M 15 metres



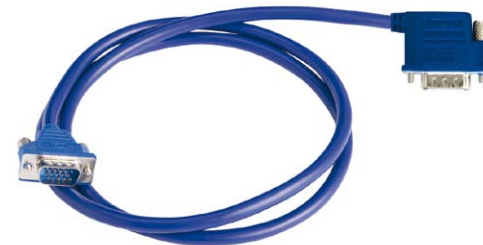
• Low-profile VGA Moulding compared to standard size VGA moulding

New Right-angle to Low Profile VGA Cables

15 way Male-to-Male VGA cables featuring low profile VGA connector at one end and right-angle VGA at the other.

Part Numbers:

- LPVGA-RA-1.0M 1 metre
- LPVGA-RA-3.0M 3 metres
- LPVGA-RA-5.0M 5 metres
- LPVGA-RA-10.0M 10 metres



• Right-angle to low-profile VGA Connectors

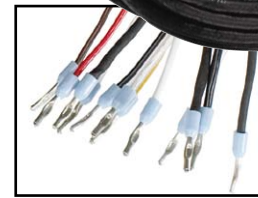
Easy-Install VGA Cables

Easy-Install Male VGA-to-Ferrule Free ends.

Ideal for use with our range of AV Wall Faceplates or Solderless VGA modules (see pages 32 and 33), these cables allow the VGA cable to be routed through tight spaces/conduit and then quickly terminated at the faceplate without the need to solder, helping to dramatically reduce installation times. The cables consist of 3 coax cores, 5 signal wires plus a screen wire.

Part Numbers:

- VGA-FRL-1.0M 1 metre
- VGA-FRL-5.0M 5 metres
- VGA-FRL-10.0M 10 metres
- VGA-FRL-15.0M 15 metres
- VGA-FRL-20.0M 20 metres
- VGA-FRL-30.0M 30 metres
- VGA-FRL-50.0M 50 metres



Premier Grade VGA Cables

Male-to-Male and Male-to-Female Premier Grade VGA Cable.

Utilising high quality, high performance cable, these premier grade blue sheathed VGA cables are suitable for use in the most demanding of applications.

Part Numbers:

- SVGAPREM2.0M/M 2 metres
- SVGAPREM10.0M/M 10 metres
- SVGAPREM15.0M/M 15 metres
- SVGAPREM0.5M/F 0.5 metres
- SVGAPREM2.0M/F 2 metres



The following cables enable the AVE-300 Series VGA transmitters and receivers to be converted to transmit Component Video or Composite Video.

Component Video Cables:

HD15F-YCBCR70 - Source Cable

Comprising of a high density 15 way female 'D' type connector to 5 x RCA (Phono) plugs. Cable length 0.7m. This cable is used in conjunction with the 'monitor cable' shown below.

The RCA connectors are used to connect to the source player in the following configuration:



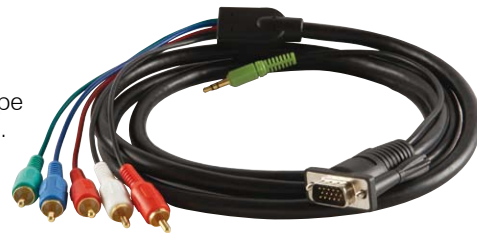
Plug Colour:	Cable Colour:	Player Connection:
Red	Red	Component Video – Red Connector
Green	Green	Component Video – Green Connector
Blue	Blue	Component Video – Blue Connector
White	Black	Audio – Left
Red	Black	Audio – Right

The 'D' type connector is then connected to the VGA input port of an AVE-300 Series transmitter.

HD15M-YCBCR180 - Monitor Cable

Comprising of a high density 15 way male 'D' type connector and 3.5mm plug to 5 x RCA (Phono) plugs. Cable length 1.8m. This cable is used in conjunction with the 'source cable' shown above.

The RCA connectors are used to connect to the monitor in the following configuration:



Plug Colour:	Cable Colour:	Monitor Connection:
Red	Red	Component Video – Red Connector
Green	Green	Component Video – Green Connector
Blue	Blue	Component Video – Blue Connector
White	Black	Audio In – Left
Red	Black	Audio In – Right

The 'D' type connector is then connected to the VGA output port of an AVE-300 Series receiver.

The 3.5mm plug is connected to the audio output port of the AVE-300 Series receiver.

Composite Video Cables:

HD15F-S3RCA70 - Source Cable

Comprising of a high density 15 way female 'D' type connector to 3 x RCA (Phono) plugs and an S-Video Mini-Din plug. Cable length 0.7m. This cable is used in conjunction with the 'monitor cable' shown below.

The RCA connectors are used to connect to the source player in the following configuration:



Plug Colour:	Cable Colour:	Player Connection:
Yellow	Black	Composite Video Out
White	Black	Audio Out – Left
Red	Black	Audio Out – Right

Alternatively, the S-Video Mini-Din plug could be used in place of the Yellow RCA plug.

The 'D' type connector is then connected to the VGA input port of an AVE-300 Series transmitter.

HD15M-S3RCA180 - Monitor Cable

Comprising of a high density 15 way male 'D' type connector and 3.5mm plug to 3 x RCA (Phono) plugs and an S-Video Mini-Din plug. Cable length 1.8m. This cable is used in conjunction with the 'source cable' shown above.

The RCA connectors are used to connect to the monitor in the following configuration:



Plug Colour:	Cable Colour:	Function:
Yellow	Black	Composite Video In
White	Black	Audio In – Left
Red	Black	Audio In – Right

Note: If the video source is via S-Video then replace the Yellow RCA connector with the S-Video plug.

The 'D' type connector is then connected the VGA output port of an AVE-300 Series receiver.

The 3.5mm plug is connected to the audio output port of the AVE-300 Series receiver.

o DVI over CAT-X Splitters

These units allow video to be simultaneously displayed across multiple displays quickly and effectively. Optional audio splitting/ extending is also possible. (See page 23 for Model DVS-DR)

Features:

- Extended DVI distances
- Stereo audio over RJ11 telephone cable
- Video amplifier bandwidth - 1.65GHz
- Local monitor port

• DVS-102C - 2 port Splitter



• DVS-104C - 4 port Splitter



• DVS-108C - 8 port Splitter



Specifications:

	DVS-102C:	DVS-104C:	DVS-108C:
Description	2 port Cat5e DVI-D and audio splitter	4 port Cat5e DVI-D and audio splitter	8 port Cat5e DVI-D and audio splitter
AV Inputs	DVI female x 1, Audio x 1	DVI female x 1, Audio x 1	DVI female x 1, Audio x 1
AV Outputs	DVI female x 1 / Audio x 1 / RJ-45 x 2 / RJ-11 x 2	DVI female x 1 / Audio x 1 / RJ-45 x 4 / RJ-11 x 4	DVI female x 1 / Audio x 1 / RJ-45 x 8 / RJ-11 x 8
RJ-45 to DVI-D receiver (DAS-DR) and RJ-11 to Audio Receiver (DAS-AR)	2 sets	4 sets	8 sets
Maximum Distance and Resolution	DVI input: transmitting over standard DVI cable up to 10 metres / DVI output: transmitting over standard DVI cable, DVI resolution, 1920 x 1200 @ 10m With Long Range Receiver (DVE-101R) 1280 x 1024 @ 50m / 1920 x 1200 @ 20m With Short Range Receiver (DVS-DR) 1280 x 1024 @ 25m / 1920 x 1200 @ 10m		
Signal Type	DVI-D	DVI-D	DVI-D
Power Consumption	DC 5v, 800mA	DC 5v, 1000mA	DC 5v, 1200mA
Housing	Metal	Metal	Metal
Weight	550g	1.04kg	1.2kg
Dimensions	23(H) x 194(W) x 80(D) mm	44(H) x 240(W) x 130(D) mm	44(H) x 240(W) x 130(D) mm

DVI-D over Cat-X Range Extenders

Utilising cost effective and readily available Cat-X cable, these units allow extended distances to be quickly and easily covered between AV source and display devices.

The usual configuration is in the form of a transmit unit and a receive unit. The transceiver is capable of being cascaded, allowing multiple displays to be driven simultaneously.

DVI-E102T, DVI-E102TR & DVI-E101R models feature easy magnetic mounting and detachable screw-mounting plate for ease of installation.

Transmitters:

- **DVI-E101T** - One port compact DVI Transmitter



- **DVI-E102T** - One port powered DVI Transmitter (Includes EQ control for improved image quality)



Transceivers:

- **DVI-E102TR** - One port cascadable DVI Transceiver (Includes EQ control for improved image quality)



Specifications:

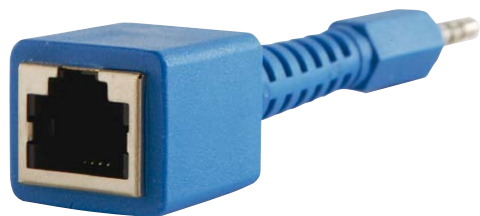
Model:	DVI-E101T:	DVI-E102T:	DVI-E102TR:
Description	One-port self-powered DVI-D transmitter	One-port DVI-D transmitter	One-port DVI-D transceiver
AV Inputs	DVI female x 1	DVI-HDMI x 1	RJ-45 x 1
AV Outputs	RJ-45 x 1	DVI Female x 1, RJ-45 x 1	DVI Female x 1, RJ-45 x 1
Maximum Distance and Resolution	Transmitting over Cat5/5e/6 cable, DVI resolution 800 x 600 @ 100m, 1024 x 768 @70m, 1280 x 1024 @ 50m, 1920 x 1200 @ 30m	The video resolution can reach 800 x 600 with each cascading length < 80m, 1024 x 768 with each cascading length < 50m and 1280 x 1024 with each cascading length < 40m (Above distances are based on cable skew < 15ns/100m)	
Video Control	-	EQ x 1	EQ x 1
Signal Type	DVI-D	DVI-D	DVI-D
Housing	Plastic	Metal	Metal
Dimensions	19(H) x 42(W) x 68(D) mm	29(H) x 113(W) x 62(D) mm	29(H) x 113(W) x 62(D) mm

Receivers:

- **DVS-DR** - Short range (10m) DVI Receiver (self-powered)



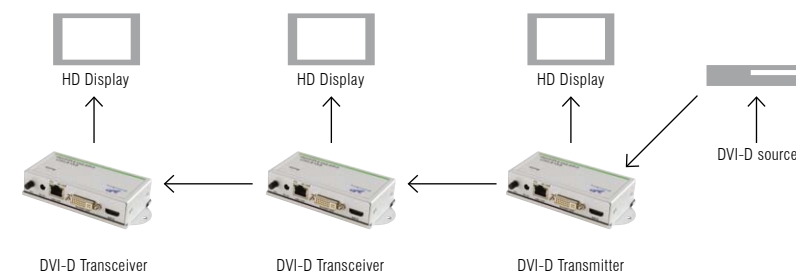
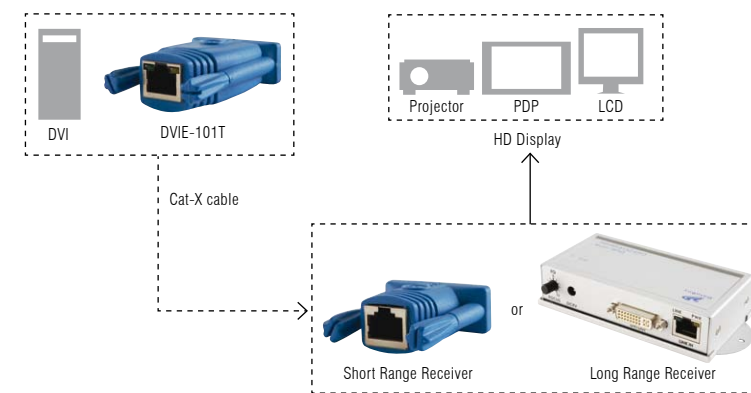
- **DVS-AR** - Audio-only Receiver (over RJ-11 cable) (used in pairs to extend stereo audio up to 50m)



- **DVI-E101R** - Long range (up to 100m) DVI Receiver (includes focus control for improved image quality)



Typical Configurations:



Specifications:

Model:	DVS-DR:	DVS-AR:	DVI-E101R:
Description	Cat5 DVI-D changer short range receiver	3.5mm ~ RJ11 adaptor	Cat5 DVI-D long range receiver
AV Inputs	RJ-45 x 1	RJ45 x 1 / 3.5mm jack	RJ-45 x 1
AV Outputs	DVI female x 1	RJ45 x 1 / 3.5mm jack	DVI female x 1
Maximum Distance and Resolution	1280 x 1024 @ 10m 1024 x 768 @ 20m	50m stereo audio	Transmitting over Cat5/5e/6 cable, DVI resolution 800 x 600 @ 100m 1024 x 768 @ 70m, 1280 x 1024 @ 60m, 1920 x 1200 @ 35m
Signal Type	DVI-D	Line level 1v peak - peak	DVI-D
Housing	Plastic	Plastic	Metal
Dimensions	20(H) x 40(W) x 50(D) mm	18(H) x 20(W) x 90(D) mm	29(H) x 113(W) x 62(D) mm

New ET-DF0101-MG500: DVI Fiber Optic Extender Kit (Multi-mode LC type)

The ET-DF0101-MG500 DVI Fiber Optic Extender Kit boosts your DVI transmission distance by up to 500m from a DVI-D single link video source to remote monitor or projector.

With four fiber optic cables, it provides longer signal transmission distance whilst ruling out any RF interference issues characteristic of traditional copper wire cable.

- Features:
- Long distance video transmission - up to 500 metres
 - Supports high resolution image quality
 - Supports Pseudo DDC detection function for EDID information
 - No RF interference by optical fiber
 - Class 1 laser product complies with EN 60825-1

Specifications:

Model No:	ET-DF0101-TG500:	ET-DF0101-RG500:
Model Name	DVI Fiber Optic Transmitter	DVI Fiber Optic Receiver
Maximum Resolution	1920x1200	
Maximum Length	(1920x1200)-300m [62.5/125µ MF] / 500m[50/125µ MMF]	
Input	1x DVI	4x LC
Output	4x LC	1x DVI
DVI Connector	DVI-D [25-pin male]	
Fiber Optic Connector	LC Type	
Optical Property	4 channels 850nm @ -6dBm ± 3dB	
Power Supply	5v/1A DC	
Dimensions	20(H) x 40(W) x 90(D)mm	

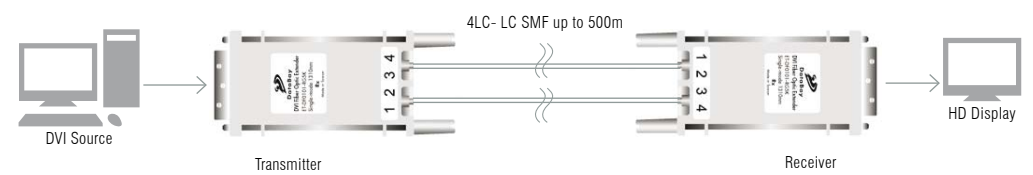
• Transmitter



• Receiver



Typical Configurations:



New ET-DF0101-MG5K: DVI Fiber Optic Extender Kit (Single-mode LC type)

The ET-DF0101-MG5K DVI Fiber Optic Extender Kit boosts your DVI transmission distance by up to 5km from a DVI-D single link video source to remote display.

With four fiber optic cables, it provides longer signal transmission distance whilst ruling out any RF interference issues characteristic of traditional copper wire cable.

Features:

- Long distance video transmission - **up to 5 kilometres**
- Supports high resolution image quality
- Supports Pseudo DDC detection function for EDID information
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1

Specifications:

Model No:	ET-DF0101-TG5K:	ET-DF0101-RG5K:
Model Name	DVI Fiber Optic Transmitter	DVI Fiber Optic Receiver
Maximum Resolution	1920x1200	
Maximum Length	(1920x1200)-5000m (9/125 μ SMF)	
Input	DVI x 1	LC x 4
Output	LC x 4	DVI x 1
DVI Connector	DVI-D (25-pin male)	
Fiber Optic Connector	LC Type	
Optical Property	4 channels 1310nm @ -4dBm \pm 2dB	
Power Supply	5v/1A DC	
Dimensions	20(H) x 40(W) x 90(D)mm	

• Transmitter

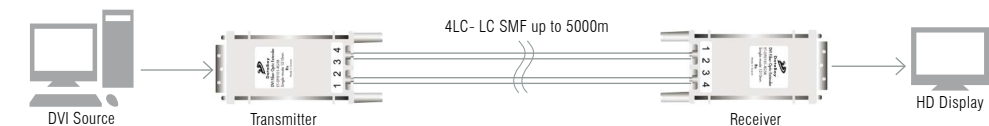


• Receiver

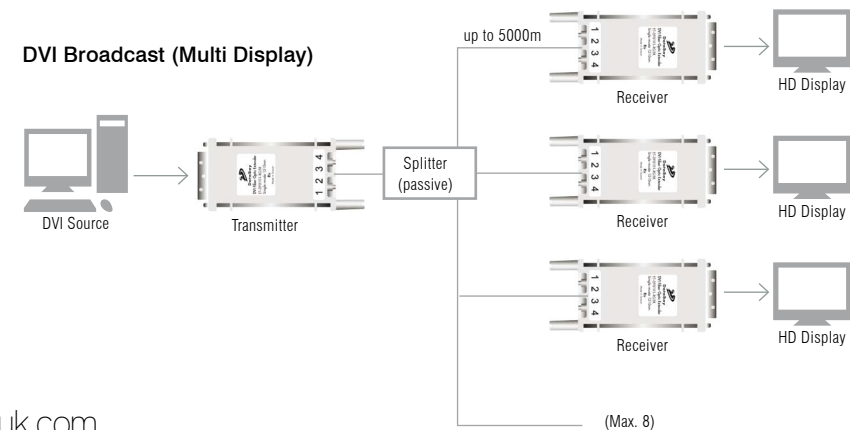


Typical Configurations:

Signal Display



DVI Broadcast (Multi Display)



New ET-IF0101-MG500: DVI Fiber Optic Extender Kit with RS-232 & Audio (Single-mode LC type)

This DVI-over-Fiber Kit carries a single DVI video signal, plus audio and RS-232 signal for data control, extending the signals over a distance of up to 500 metres!

Features:

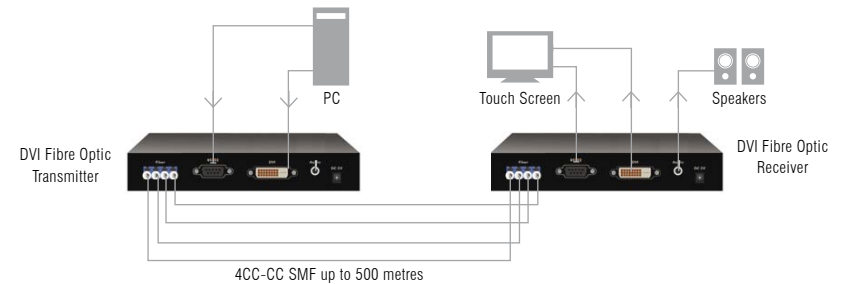
- Long distance video, audio and RS-232 signal transmission - up to 500 metres
- Supports high resolution image quality
- Supports Pseudo DDC detection function for EDID information
- No RF interference by optical fiber
- Class 1 laser product complies with EN 60825-1



Specifications:

Model No:	ET-IF0101-TG500:	ET-IF0101-RG500:
Model Name	DVI Fiber Optic Transmitter	DVI Fiber Optic Receiver
Maximum Resolution	1920x1080	
Maximum Length	(1920x1080) ~ 500m (91/125 SMF) (The length difference between these 4 fibers should be less than 0.5)	
Input	DVI-D x 1, RS-232 x 1, Audio Jack x 1	LC x 4
Output	LC x 4	DVI-D x 1, RS-232 x 1, Audio Jack x 1
DVI Connector	DVI-D (25-pin male)	
Fiber Optic Connector	LC Type	
Optical Property	4 channels 1310nm @ -4dBm ± 2dB	
Power Supply	5V/600mA DC	
Dimensions	30(H) x 180(W) x 87(D)mm	

Typical Configurations:



o DVI Cables and Adaptors

DVI cables are suitable for distributing high quality video and are ideal for use with the DataBay DVI equipment shown on pages 21~26.

DVI-D to DVI-D Cables:

- DVI-DVI 2M 2 metres
- DVI-DVI 5M 5 metres

DVI-A to VGA Cable:

Used to interconnect DVI-A and 15-way High Density VGA connectors. The cable has Male-to-Male orientation and is 2 metres in length.

- DVI-A to VGA M/M 2M 2 metres

DVI-A to VGA Adaptors:

- DVI to VGA F/M Adaptor DVI Female to VGA Male
- DVI to VGA M/F Adaptor DVI Male to VGA Female

- DVI-A to VGA Adaptors (Male and Female)



- DVI-D to DVI-D M/M Cable



- DVI-A to VGA Cable



New PDUA-MH1623-0801: 8 Port Monitored PDU

This monitored Power Distribution Unit provides live current consumption monitoring to its built-in current meter and remotely via web interface.

When current consumption exceeds the pre-set threshold, the monitored PDU will send email alerts or 'trap' network notifications and isolate the PDU to prevent damage to the system.

Free Power Management Software is bundled in with the PDU, displaying power consumption and event data and allowing control of power conditioning.

Features:

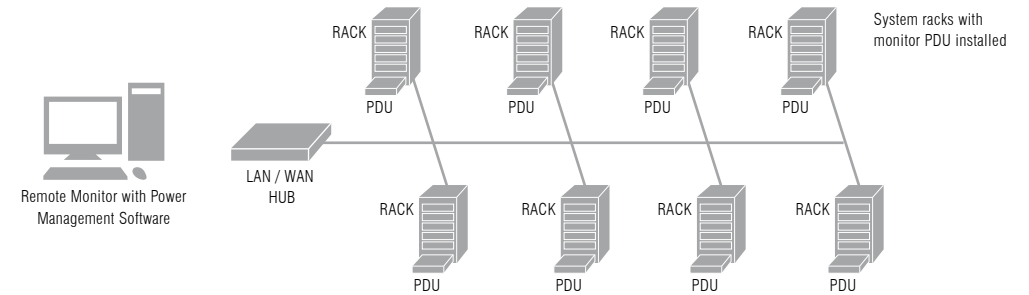
- Built-in web server for real-time monitoring of current consumption
- Built-in true RMS current meter
- Audible alarm should power consumption exceed set threshold
- Email alert sent to remote monitor and powertrip, should power consumption exceed set threshold
- Built-in circuit breaker
- Only 1U high and suitable for rack mounting

Specifications:

Model No:	PDUA-MH1023-0801:	PDUA-MH1623-0801:
Number of Ports	8	8
Capacity	10A	16A
Input Voltage	230v	230v
Output Socket	IEC	IEC
Interface	RJ45: Ethernet for connecting to PC	
Frequency	50/60HZ full range	
LED indicator	Yellow LED x 1 (Current Meter), Green LED x 1 (IP Address)	
Alarm	Warning: 1 beeps per second Overload: 3 beeps per second Circuit Breaker: triggered - continuously beeps	
Meter	3 Digital Meter x 1 Range: 0A ~ 20A (true RMS) Resolution: 0.1A Precision: +/- 0.1 AMP	
Operating Temperatures	0 ~ 40°C	
Storage Temperatures	-25 ~ 65°C	
Humidity	0 ~ 90%	
Height	1U (44 mm)	



Typical Configuration:



New PDUA-PH1623-0801: Per-Outlet Monitoring Power Distribution Unit (POM PDU)

This intelligent power management unit provides live current consumption monitoring per power outlet port, reporting directly to the unit's built-in current meter and remotely via web interface.

When current consumption of any individual power port exceeds the pre-set threshold, the POM PDU will send an email alert to the remote monitor (such as a computer, tablet, etc) and will isolate the individual outlet port to protect the system.

Features:

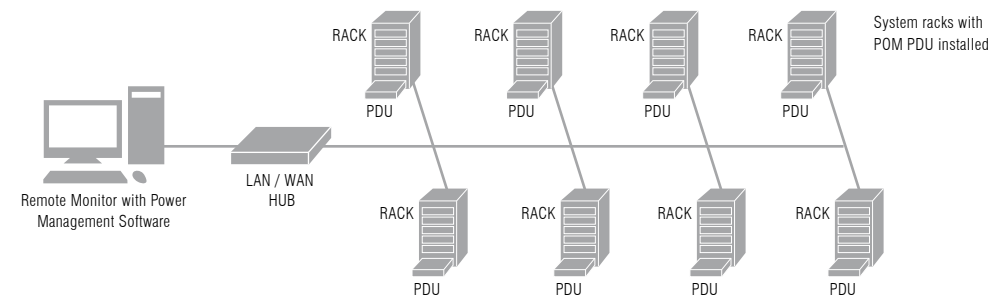
- Per-outlet port consumption monitoring
- Built-in web server for real-time monitoring of current consumption
- Built-in true RMS current meter
- Audible alarm should power consumption exceed set threshold
- Email alert sent to remote monitor and power trips, should power consumption exceed set threshold
- Real time, remote on/off power control of each unit
- Built-in circuit breaker
- SNMP support
- Outlet and circuit status LED indicators
- Supports power-up sequence
- Only 1U high and suitable for rack mounting

Specifications:

Model No:	PDUA-PH1623-0801:
Number of Ports	8
Capacity	16A
Input Socket	1/EC 320 C20
Output Socket	8/EC 320 C13
Power Cord	1/EC 320 C19 to C20, 3meters
Circuit Breaker	1/16 Amp
Nominal Voltage	160-320v
Voltage	230v
Frequency	47/63HZ full range
Temperature	-5 ~ 45°C
Humidity	0 ~ 90%
Conformance	FCC, CE, Ready for the UL
Meter	RJ-45 for Ethernet / Supports up to 8 PDUs via RJ-11 / 1RJ-11 for temperature/humidity detection / Reset for Hardware reset / 3Digits + 1Digit / Warning and Overload: 1 beep in 1 second/3 beeps in 1 second / Range: 0A ~ 20A (true RMS) / Resolution: 0.1A / Precision: +/-2% +/-0.1 AMP / 1 digital for POM PDU identification
LED Indicator	Yellow LED: SSL is enabled Green LED: IP address Red LED: POM PDU connecting status
Dimensions	432(H) x 160(W) x 44(D) mm
Weight	6kg



Typical Configurations:



New PDUA-Sx1623-xxxx: SNMP Switched POM PDUs with Current Meter

The DataBay SNMP switched PDUs provide remote power management solutions which allow I.T. administrators to monitor servers and network devices should any power consumption issues arise.

These units allow remote and on-site power monitoring through event alerts by email, 'TRAP' (network notifications) and audible alarm. Each unit's built-in digital current meter will indicate the total power consumption of each power strip. Using the software supplied, these units also provide remote on/off switching functionality.



Features:

- Integrated web server manages real time current consumption of PDU
- Built-in true RMS current meter
- Easy set up, meter display IP address
- Audible Alarm - 2 separate warning audible signals for threshold warning and overload
- Email and SNMP traps sent when power exceeds warning threshold or overload threshold
- Free utility software for managing multiple PDUs
- Circuit Breaker power protection
- Low profile, slim design makes it easy to mount in server cabinets
- Real time, remote on/off power control of each unit
- LED on each unit to indicate power status
- Power-on sequencing to avoid in-rush of power

Specifications:

Model No:	PDUA-SH1623-0801:	PDUA-SV1623-1601:	PDUA-SV3223-2403:
Number of Ports	8	16	24
Input Voltage	230v	230v	230v
Capacity	16A	16A	32A
Breakers	1CB	1CB	3CB
Interface	RJ45 for Ethernet		
Frequency	50 ~ 60HZ full range		
LED Indicator	Yellow LED: SSL is enabled / Green LED: IP address		
Audible	Warning: 1 beep per second Overload: 3 beeps per second Circuit Breaker: triggered-continuous beeps		
Meter	3 Digitals Warning and overload - Meter will flash once per second Range: 0A ~ 20A (true RMS) Resolution: 0.A ~ 20A: 0.1A Precision: 0.A ~ 20A: +/- 2% +/-0.1 Amp		
Operating Temperature	0 ~ 40°C		
Storage Temperature	-25 ~ 65°C		
Humidity	0 ~ 90%		
Height	1U (44mm)		

Video Distributor Amplifiers

Ideal for use in retail and audio visual installations, or any application requiring the duplication and distribution of high quality video signals.

Features high quality BNC type connectors (1~2v pp / 75ohm) for video signal input and video signal output, plus a fixed mains lead on the rear. Optional 19" rack kits are also available.

Part Numbers:

- **TD104** 1 in~4 out
- **TD204** 1 in~8 out or 2 in~4 out
- **TD408** 1 in~8 out, 2 in~4 out or 4 in~2 out
- **TD816** 2 in~8 out, 4 in~4 out or 8 in~2 out

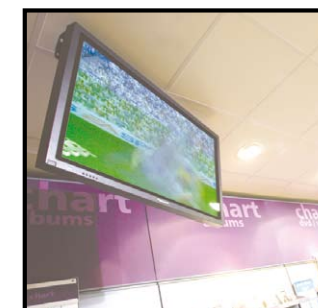
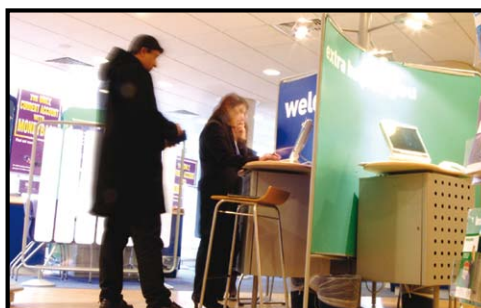


Audio / Video Matrix Switch Box

A simple yet effective 8 input/8 output BNC Audio and Video Matrix unit, allowing selection and allocation of separate audio and video sources.

This incredibly cost effective, 19" rack mounting unit uses simple selection switches and highly visible LED display on the front panel to show which input (audio and video) is routed to which output. Alternatively, the unit can be controlled using RS232 via Crestron, AMX or Extron systems or equivalents, via a 9pin D type connector.

Units may also be cascaded to increase the flexibility and applications of the devices using the serial connector on the rear.





Many AV installations require wall-mounted interconnection plates to allow equipment to be interfaced together as required.

Quality built and designed with ease of installation in mind, our range of faceplates are ideal for use in most applications.

Single-Gang AV Plate

- 1 x Easy-Install, solderless VGA HD15F (VGAPCBUNITNEW)
- 4 x RCA audio sockets; 2 x left plus 2 x right
- 1 x RCA video socket

- **1GEIAVPLT** - Single-gang AV plate



Double-Gang AV Plate

- 2 x Easy-Install, solderless VGA sockets (VGAPCBUNITNEW)
- 2 x RCA audio sockets; left and right
- 1 x RCA video socket
- 1 x 3.5mm PC audio socket
- 1 x USB B Male to USB B Female 3m whiteboard flying lead
- 1 x RJ-45 back-to-back socket

- **2GEIAVPLT** - Double-gang AV plate



Solderless VGA Module

For use with our range of Easy-Install VGA Cables (VGA-FRL-xxM) on page 18 & 19, this solderless VGA module can be installed into your own equipment or plate as required.

The module incorporates a HD 15-way female D-type and rear screw terminals for quick and easy installation on site. Supplied complete with a clear, easy to use wiring diagram.

- **CLB-VGAPCBUNIT** - Solderless VGA Module



○ Single-Gang Basic VGA Plate

- 1 x Easy-Install, solderless VGA plate HD15F with rear screw terminations
- Ideal for use with our Easy-Install VGA cables

• AVPLATE1 - Single-gang VGA plate



○ Single-Gang RCA Plate

- 2 x RCA audio sockets, left and right
- 1 x RCA composite video socket
- Solder connections at the rear

• AVPLATE2 - Single-gang AV plate



○ Single-Gang XLR Plate

- Solderless rear screw terminations
- Quick and easy installation
- High quality Switchcraft XLR
- Available with a male or female XLR

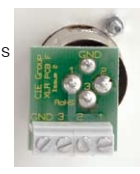
• 1GEIXLRM - Single-gang male XLR plate



• 1GEIXLRF - Single-gang female XLR plate



- Solderless screw-terminal rear connections



○ Single-Gang HDMI Plate

- HDMI connection front and rear
- Rear socket is aligned for side entry
- Designed for use with metal in-wall pattress with side knock-outs

• 1GEIHDMI - Single-gang HDMI plate



- HDMI rear connection



Single-Gang Faceplate Kit

- 1 x Single-gang AV faceplate (1GEIAVPLT)
- 1 x VGA cable with easy route ferrule ends
- 2 x Twin RCA audio cables
- 1 x RCA video cable

Part Numbers:

- **VGAKIT-1G-1M** - 1m Cable Kit
- **VGAKIT-1G-15M** - 15m Cable Kit
- **VGAKIT-1G-20M** - 20m Cable Kit



Double-Gang Faceplate Kit

- 1 x Double-gang AV faceplate (2GEIAVPLT) incorporating a 3m whiteboard USB B cable and back-to-back RJ45 socket
- 2 x VGA cable 15m with easy route ferrule ends (VGA-FRL-15.0M)
- 1 x Twin RCA audio cables 15m (2XRCA-FE15MRDWH)
- 1 x RCA video cable 15m (RCAYELW-FREE15M)

Part Numbers:

- **VGAKIT-2G-10M** - 10m Cable Kit
- **VGAKIT-2G-15M** - 15m Cable Kit



Pre-terminated AV Wallbox Kit

This fully pre-terminated AV wallbox kit comes with all installation cables already internally connected, providing high speed 'plug and play' installation.

- Wallbox connections made from below for tidy, secure cable connectivity
- Wallbox features input connections for 2 x VGA, composite video, L and R RCA audio, whiteboard USB, RJ-45 and HDMI

Kit also includes:

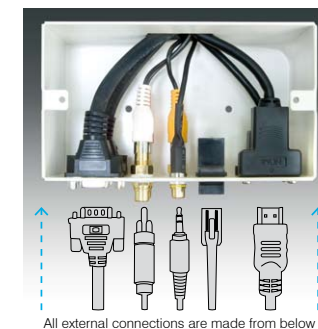
- 2 x prewired VGA cables
- 1 x stereo 3.5mm plug-to-plug cable
- 1 x prewired USB lead

Part Numbers:

- **AVWB1-10M** - 10m Cable Kit
- **AVWB2-15M** - 15m Cable Kit



- Supplied with fully terminated cable



All external connections are made from below

New FB221X303X86BOX: Clever Little FloorBox

This UK designed and built Audio Visual FloorBox accepts a full range of input and output modules to meet the specific requirements of each individual AV system.

Manufactured in high quality galvanised steel and grey polycarbonate, our new 'Clever Little FloorBox' combines discreet and flexible design with safe and robust construction.

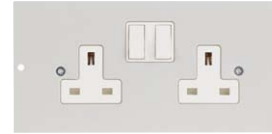


Specifications:

Model: FB221X303X86BOX:	
Number of Module Spaces	Max. 3 x 2-gang Plates or 6 x Angled Plates or combination of above
Materials	Galvanised Steel High Impact Polycarbonate
Floor Cutout Dimensions	265 x 212 mm
Lid Recess Dimensions	239 x 150 mm
Lid Recess Depth	6mm
Depth Below Floor Level	84mm
Height Above Floor Level	4mm
Weight (without Modules)	2.17kg

• FB2GANGMAINS

2-gang mains outlet.



• FBRJPLATE

4 port blank RJ plate for use with FBRJMODULE. (Modules sold separately)



• FBRJMODULE

Snap in Cat5 module for use with FBRJPLATE.



• FBANGLEDVA

Angled plate with 1 x VGA with screw terminal contacts for easy installation, 3 x Phono and 1 x 3.5mm sockets.



• FBANGLE2XVGA

Angled plate with 2 x VGA with screw terminal contacts for easy installation.



• FBANGLEVGA2XUSB

Angled plate with 1 x VGA with screw terminal contacts for easy installation, 1 x USB-B and 1 x USB-A couplers.



○ RCA (Phono) Pre-Made Cables

A range of RCA cables ideal for use in most AV installations and particularly suitable for use with our range of faceplates shown on pages 31~35.

The range includes plug-to-plug cables in 1, 2 and 3 way versions, as well as plug-to-free end cables, ready to be terminated on the rear of a faceplate.

RCA Plug-to-RCA Plug Cables

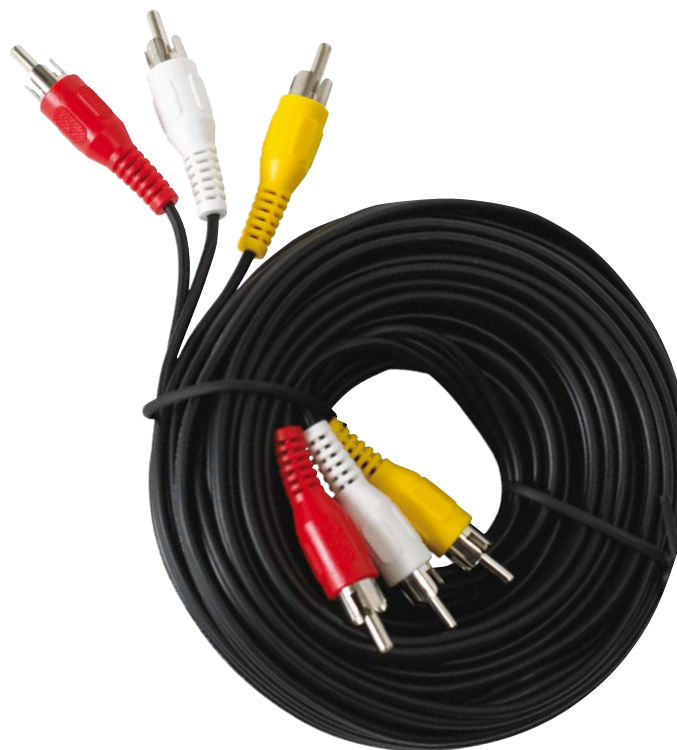
Part Number:

• 2XRCA-2XRCA0.75M	2 x RCA to 2 x RCA, Red/White	0.75 metres
• 2XRCAREDBLK15M	2 x RCA to 2 x RCA, Red/Black	15 metres
• 3XRCA-3XRCA1.5M	3 x RCA plugs to 3 x RCA plugs, Gold, Red / Yellow / Black	1.5 metres
• 3XRCA-3XRCA3.0M	3 x RCA plugs to 3 x RCA plugs, Gold, Red / Yellow / Black	3 metres
• 3XRCA-3XRCA5.0M	3 x RCA plugs to 3 x RCA plugs, Gold, Red / Yellow / Black	5 metres
• 3XRCA-3XRCA10M	3 x RCA plugs to 3 x RCA plugs, Gold, Red / Yellow / Black	10 metres
• 3XRCA-3XRCA15M	3 x RCA plugs to 3 x RCA plugs, Gold, Red / Yellow / Black	15 metres
• 3XRCA-RYW0.75M	3 x RCA plugs to 3 x RCA plugs, Red / Yellow / White	0.75 metres
• 3XRCA-RYW1.5M	3 x RCA plugs to 3 x RCA plugs, Red / Yellow / White	1.5 metres
• 3XRCA-RYW2.0M	3 x RCA plugs to 3 x RCA plugs, Red / Yellow / White	2 metres
• 3XRCALEAD10MRYW	3 x RCA plugs to 3 x RCA plugs, Red / Yellow / White	10 metres
• 3XRCALEAD15MRYW	3 x RCA plugs to 3 x RCA plugs, Red / Yellow / White	15 metres

Plug-to-Free End RCA Cables

Part Number:

• 2XRCA-FE10MRDWH	2 x RCA (1 red / 1 white) to Free End	10 metres
• 2XRCA-FE15MRDWH	2 x RCA (1 red / 1 white) to Free End	15 metres
• RCAYELW-FREE10M	1 x RCA (yellow) to Free End	10 metres
• RCAYELW-FREE15M	1 x RCA (yellow) to Free End	15 metres



○ 3.5mm Pre-Made Cables

A range of 3.5mm plug cables, ideal for use with most AV installations and particularly suitable with our range of quality faceplates.

Normally used to carry PC/MP3 audio, the range includes plug-to-plug ends, plug-to-ferrule ends and plug-to-free end cables, ready to be terminated on the rear of a faceplate.

Part Numbers:

3.5mm stereo plug-to-plug lead

• 3.5STRLEAD3.0M	3 metres
• 3.5STRLEAD5.0M	5 metres
• 3.5STRLEAD15M	15 metres

3.5mm stereo plug-to-bootlace ferrule lead

• 3.5STRLD-FRL10M	10 metres
• 3.5STRLD-FRL15M	15 metres

High quality 3.5mm stereo plug-to-free end

• 35HR07884X	2 metres
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High quality 3.5mm stereo plug-to-plug lead

• 35HR07235X	1.8 metres
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o Mains Cords

A selection of standard 5A fused Mains Cords.

Part Numbers:

- **CCC600** UK wall plug (5A fused) to IEC Female (0.75mm²) 1.9 metres
- **CCC280** UK wall plug (5A fused) to IEC Female (1.0mm²) 5 metres



- **CCC001** IEC extension lead – Male to Female (0.75mm²) 2 metres



- **CCC253** UK wall plug (5A fused) to cloverleaf Female (0.75mm²) 2 metres



o USB Extender Kit

Used to simply but effectively extend a USB 1.1 signal beyond the normal 5m limit. Supplied as a transmitter and receiver kit, the two devices are linked via user supplied Cat5e cable up to a maximum of 30 metres.

- **USBEXKIT**



o Interactive Whiteboard USB Cable

USB 'B' panel mount Male to USB 'B' cable Female - 3 metres

- **USB-BML-BFMPN3M**



Custom Products

We understand that not every project is 'standard' or that to set your company apart you may wish to customise items with your company logo; maybe you require a special configuration on a faceplate?

The following are just a few examples of how the capability and flexibility of our specialist bespoke service has already benefitted many of our key AV integration customers.

Please do not hesitate to contact us with any bespoke requirements you may have.

- Would you like us to hold buffer stocks ready for immediate dispatch?

Our modern, on-site warehouse facilities consistently hold almost £1million worth of stock to supply the UK audio visual market. We would be very happy to discuss holding buffer stock to ensure your specific product requirements can be met for immediate delivery.



- Do you need bespoke cables produced to your own specification?

Our project management service also allows for full consultation/design/manufacture of bespoke cable assemblies to meet the specific requirements of your installations or products. We have repeatedly surprised many customers with our ability to provide an alternative cable/connector solution to provide both significant cost savings and faster, easier installation.



- Would you like your company logo on your connectivity products?

Many of our products can also be supplied printed with your company branding as required. This can provide both a professional finish to your installations and also allow for telephone/web contact details to be included for future business opportunities.



- Do you use over 50 pieces of any faceplate or kit of parts and need it customising?

We will provide faceplates/kits to your own specification, straight from the pack and ready to install without any 'remanufacture' requirements from your own installers/engineers.



- Would it be more convenient to have all your cables in one loom?

Many of the UK's leading manufacturers and AV integrators benefit from bespoke-built full cable looms from CIE-Group, ensuring fast, efficient and tidy project results.



Installation Advice and Information

DataBay Signal Distribution Products

The DataBay range of AV signal distribution equipment is capable of high quality results. This guide is intended to help achieve optimum performance from the equipment by following simple guidelines and good installation practice.

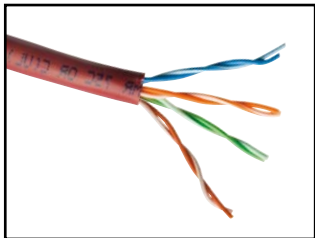
Cable:

The DataBay product range distributes the AV signals via various cable types. As with any installation, the type and quality of cable can have a dramatic effect on the resultant performance. For example, a CCTV system may be installed with all manner of RG59 cable, but the resultant differences in image quality from best to worst can be huge.

Where a DataBay system is extended via Cat5e / Cat6 cable, we strongly recommend the use of a Low Skew cable. Skew is a measurement (normally in nanoseconds) that measures the time delay between the first and last signal arrival in different twisted pairs. If the time difference is too large, image quality can be affected, possibly manifesting itself in bright vertical lines, ghosting, colour smudging or worst case, no image at all. Low Skew in video terms is cable with Skew rates lower than 15nS per 100m.

The following Cat-X cables should all perform well:

Belden 7987R
Belden 1700A
Canford 31-953
Mohawk M58813



Environmental issues:

The area surrounding an installation can also have an impact on its performance. In particular electrical noise from mains cables, fluorescent lighting or electric motors / installations, etc, could result in interference being induced into the AV cabling system and affecting its performance.

The same applies to airborne radio frequency interference.

Common sense and good installation practice should minimise these effects through careful cable routing, avoiding mains cables or other areas of potential interference. In areas of high susceptibility, it would be sensible to use low skew screened cables.

Display resolutions and refresh rates:

Higher display resolutions and video refresh rates all require higher bandwidths and data rates. The result of the greater demands on the cable is, consequently, reduced achievable distances.

For example:

A display running a resolution of 480p may happily work across a 100m link; the same infrastructure running a display @ 1080p may only achieve 30m.

FAQ

Q. What is Low Skew Cat-X cable?

A. Skew is a measurement (normally in nanoseconds) which measures signal delays between different twisted pairs in a cable. Low Skew in video terms is cable with Skew rates lower than 15nS per 100m.

Q. Can I extend the distances further than specified?

A. This could be possible by:

- Reducing the display resolutions
- Using better quality Cat-X cable (low skew, shielded)
- Using better quality video cables (e.g. Cat2 HDMI cable)

Q. I'm only using a 5 metre Cat-X link cable between the transmitter and receiver, but I cannot get a picture...

A. This can occur when using short cables of maybe 5 or 10 metres with receivers that are optimised to function over much longer distances e.g. 300m. In this case either use a slightly longer Cat-X cable or use a different receiver.

Q. I'm using a short range HDMI non-powered receiver (p/n HDMI-HR), but cannot see an image; why?

A. Some flat panel monitors use a slightly non-standard input which requires power at the HDMI input socket to function correctly. Some Samsung and Goodmans monitors are known to suffer from this issue (there may be others). However, the problem can be easily overcome by using our p/n ET-HC0101-Z (see page 17), in place of the non-powered HDMI-HR.

Q. If I 'mix' transmitters and receivers of different distance capabilities (e.g. AVE-301T 300m and the receiver from the AVE-M180TR 180m), what is the maximum distance achievable?

A. In all such cases you are limited to the distance of the shortest device (in this case 180m).

Q. How many levels of cascading can be achieved on HDMI?

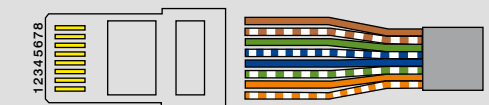
A. Normally two is recommended, although at lower resolutions and with good quality cables further cascading may be perfectly possible.

Q. Can I use stranded Cat-X patch cord?

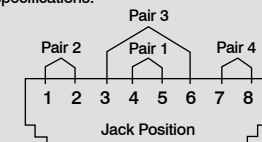
A. Stranded Cat-X cable is not recommended – use solid installation Cat-X cable for best results.

Q. How should I wire the Cat-X cable?

A. The cable should be terminated to EIA 568B specifications.



EIA 568B specifications:



The EIA/TIA definition of 568B in the pin assignment is (1) orange white, (2) orange, (3) green white, (4) blue, (5) blue white, (6) green, (7) brown white, and (8) brown

Hints and Tips

When commissioning a DataBay system the following tips could help speed up the process and ensure a trouble-free installation:

Pre-Installation:

Undertake a full site survey. In addition to standard practice, take particular note of accurate cable lengths required, makes/models of the monitors to be connected and take into account any potential environmental factors that could cause interference. It is also preferential to have all devices powered from the same electrical phase and with common grounding.

Wherever possible, bench test your proposed system set-up at your facility before proceeding to site. Use interconnecting cables as they will be used on site, i.e. the same cable types and lengths.



During Installation:

Follow the user manuals to assist the installation process.

Firstly, if the first transmitter in the link has a local monitor output, then connect up a monitor to this port to confirm that the transmitter is receiving a valid signal. Use the EQ control (if available) on the transmitter to obtain the optimum picture quality. You can then proceed to setting up the receiver end.

Set-up the system by starting with the lowest video resolution outputs from the video source and establishing a working link. You can then increase the display resolutions in stages to ensure full system compatibility. Ensure the monitor is capable of displaying at the desired resolutions and refresh rates.

Most devices should function correctly with the EQ set to AUTO. However, if this does not give satisfactory results, then the EQ can be set manually. Please note that in manual mode the changes may not be instantaneous and may lag by a second or two. Therefore, adjust the EQ in small stages at a time and check the result on screen.

If a monitor does not appear to be displaying video, check the obvious things like power(!) correct source mode selected (e.g. HDMI, VGA, S-Video) and for correctly engaged connectors. If this fails, completely power down the monitor (not just standby) and then re-apply the power.



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VGAKIT-1G-15M	Single-Gang Faceplate Kit - 15 metres	34
VGAKIT-1G-1M	Single-Gang Faceplate Kit - 1 metre	34
VGAKIT-1G-20M	Single-Gang Faceplate Kit - 20 metres	34
VGAKIT-2G-10M	Double-Gang Faceplate Kit - 10 metres	34
VGAKIT-2G-15M	Double-Gang Faceplate Kit - 15 metres	34
VS-201H	VGA Splitter - 1 in, 2 out	14
VS-401H	VGA Splitter - 1 in, 4 out	14
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