ADDER®

Digital Signage
Professional Video Extender

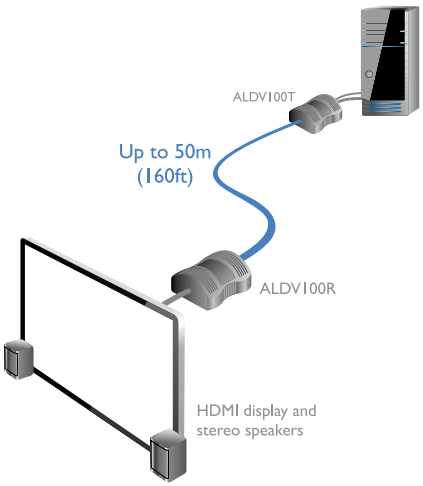
Digital Video Extender
Low Power, Small Form Factor, HDMI with Audio

ADDERLink DV100

Digital video extender with audio over a single cable

PRODUCT IN BRIEF

ADDERLink DV100 is an easy to install, highly compact video extender system that can transmit an HD video stream with audio over a single CATx cable. This enables you to locate your media playback hardware in a secure and temperature controlled environment. Thus your valuable systems are kept safely away from the display point environment whilst maintaining precisely the same user experience. ADDERLink DV100 is ideally suited to the Digital Signage (DOOH - Digital Out-Of-Home) and Audio Visual (AV) industries.



FEATURES

Pixel perfect digital video

ALDV100 uses an uncompressed communication system whereby the pixels of every frame are sent without loss. Resolutions up to 1920x1200 @60Hz (WUXGA) are supported. Additionally, the High-bandwidth Digital Content Protection (HDCP) of the HDMI standard is supported.

Up to 50 meters over a single CATx cable

Video, audio and power all pass along a single cable, providing a maximum of 50 meters extension. The actual achievable extension distance is dependent upon the CATx cable type used and the number of connection breaks for patch panels and wall plates. Please see the table on reverse for details.

Highly energy efficient - No external power supplies are required

The AdderLink DV100 is designed to be highly power efficient, using less than an eighth of the power required by some competing systems. By harvesting power from a standard USB socket, no external PSUs are needed and hence the support infrastructure required is kept to an absolute minimum.

Digital audio

Supports eight channels of HDMI audio.

Mix-n-match

The whole AdderLink DV family of extenders share a common advantage of cross connection. The HDMI transmitters (ALDV100T) of the family can seamlessly be connected to the DVI-D receivers (ALDV120R) and vice versa.

EDID management

The system has intelligent EDID management to allow the true characteristics of the display to be passed back to the computer.

Plug and Play

AdderLink DV100 extenders are delivered in a zero config state so you can connect their two units and start working with them straight away. There's no need for drivers or software to be installed.

Built to last

Adder Technology have a well-earned reputation for creating products that perform well and stay the course. AdderLink DV100 is no exception and features tough, yet lightweight ABS enclosures to ensure they can easily withstand everyday treatment. The internal components and external connectors too are selected for their reliability in addition to their performance characteristics.

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ABOUT ADDER

Adder is a leading developer and thought leader in connectivity solutions. Adder's advanced range of KVM switches, extenders and IP solutions enable the control of local, remote and global IT systems across the enterprise. The company distributes its products in more than 60 countries through a network of distributors, resellers and OEMs. Adder has offices in the United States, United Kingdom, Germany, Spain, the Netherlands, Sweden, China and Singapore.

To find out more, visit:
http://www.adder.com

TECHNICAL SPECIFICATIONS

Hardware compatibility
All computers with HDMI connections

HDMI interface
The system supports resolutions such as 480p, 720p, 1080P or WUXGA (1920x1200) @60Hz* and 24 bit color depth.

** with reduced blanking*

Software compatibility
All known operating systems

Audio
The system delivers eight channels of HDMI audio with sample sizes of 16, 20 or 24 bit at 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, or 192kHz.

Computer connections at transmitter (TX)
HDMI type A male,
USB type A (for power only)

Display connections at receiver (RX)
HDMI type A male

ORDERING INFORMATION

ALDV100P: DV100 Pair
ALDV100R: DV100 Receiver
ALDV100T: DV100 Transmitter

ADDITIONAL ACCESSORIES

VSCAT7-50: 50m CAT7 Shielded foiled twisted pair cable
PSU-LPV-KIT: External power adapter & USB conversion cable

Physical design
Injection moulded ABS cases:
45mm / 1.8" (w) x 63mm / 2.5"(d) x 21mm / 0.8"(h) with 30cm / 12" pigtails.
Weight 250g / 0.6 lb per pair.

Power
USB powered, 5VDC -2.5W for both RX and TX units combined.

Operating temperature
0 to 40°C / 32 to 104°F

Approvals
CE, FCC

RELATED PRODUCTS

Adder offer a vast range of products to suit your needs. Other products you may be interested in include:

ADDERLink DV120
ALDV120P; ALDV120R

ADDERLink DV104T
ALDV104T

ADDERLink LPV150
ALPV150P; ALPV150R

ADDERLink LPV154T
ALPV154T

Important extension distance Information
Recommended cables are CAT7 shielded foiled twisted pairs:

Daetwyler 7702 Flexible patch cable
Daetwyler 7120 Bulk cable

Category 5e (or better) shielded twisted pair cable must be used to connect the local and remote units in order to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

Resolution	Cable type	Patch connections	Total distance
1920x1200 @60Hz	CAT7a	0	50 meters
1920x1200 @60Hz	CAT6a (shielded)	0	50 meters
1920x1200 @60Hz	CAT6a (shielded)	2	40 meters
1920x1200 @60Hz	CAT7a	2	40 meters

Note:
Distances are achieved using single lengths of trunk/bulk cable. For each break/patch connection reduce distance by 5 meters. Preferably patch cables should be of type CAT7 and less than 2 meters. Patch cables over 2 meters must be CAT7.

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