



DIGITALINX
VALUE-ENGINEERED DIGITAL SOLUTIONS

DL-SE3H1V-C Quick Install Guide



This guide is for quick installation only.

For complete owners manual and list of commands, go to www.libav.com or use a QR reader to access the manual via QR code below.



Scan QR Code with your Smart-phone or Tablet

Product Overview

The Digitalinx DL-SE3H1V-C is a 4K compatible, 4 input multi format A/V auto switcher, extender and video scaler system that supports long distance transport of HDMI between transmitter and receiver up to 70 meters / 230' using Cat6 cabling.

The DL-SE3H1V-C features a total of 3 video inputs on the transmitter; (2) HDMI, (1) VGA with 3.5 Audio and (1) HDMI input located on the receiver for integration of a local HDMI input such as a wireless BYOD / screen share product. The receiver also features a stereo analog audio output to connect to an audio amplifier for audio reinforcement, an RS232 serial control port for display control / connectivity and two relay ports for projection screen or window shade control / connectivity.

The DL-SE3H1V-C can be controlled via push button control on the transmitter and receiver or by issuing telnet and serial commands when integrated with a 3rd party control system. The system can be programmed to automate RS232, CEC and relay control when a new video signal is introduced to the system thus creating a stand alone, plug and play A/V automation system that consolidates control of a connected display and room peripherals such as a projector screen or window shade.

Complete control command sets and preloaded configuration driver are located on the DL-SE3H1V-C product page online at www.libav.com

Package Contents

- DL-SE3H1V-C Transmitter and Receiver Set
- Quick Install Guide
- DC12V 3A power supply with US, UK, EU and AU adapter plugs
- (4) 3.5mm 3 pin phoenix male connectors
- (4) Mounting brackets

Transmitter View



1. VGA IN - VGA video input
2. FW UPDATE - USB port for transmitter firmware updates
3. AUDIO IN - 3.5mm analog audio input to accompany VGA input
4. HDMI IN1- HDMI video input #1
5. STATUS LEDS
 - **POWER**- When solid, the transmitter is receiving power
 - **STATUS**- When blinking, the transmitter is working properly
 - **HDCP** - When solid, HDCP content is being transmitted, when blinking NON HDCP content is being transmitted
 - **LINK**- When solid, the link between transmitter and receiver is normal. When blinking or off the link between transmitter and receiver is not operable
6. HDMI IN2 - HDMI video input #2
7. HDBT OUT- HDBaseT output to connect to HDBaseT input on receiver via category cable
8. FRONT PANEL CONTROLS
 - **AUTO**- Enables auto switcher. When LED is on the auto switch function is ON
 - **VGA IN** - VGA video input selector
 - **HDMI IN1**- HDMI IN1 input selector
 - **HDMI IN2**- HDMI IN2 input selector

LED indicator status for VGA and HDMI inputs:

 - When LED is violet, the input has signal and is selected
 - When LED is orange, the input has signal but is not selected
 - When LED is blue, the input has no signal but is selected
 - When LED is off, the input has no signal and is not selected
9. DC12V- Locking power port to connect DC12V power adapter

Receiver View



1. LAN - RJ45 Telnet control port
2. FW UPDATE - USB port for receiver firmware updates
3. HDBT IN- HDBaseT input to connect to HDBaseT output on transmitter via category cable
4. STATUS LEDs
 - **POWER**- When solid, the transmitter is receiving power
 - **SCALER** - When solid, the scaler module is working properly
 - **STATUS**- When solid, the transmitter is working properly
 - **HDCP** - When solid, HDCP content is being transmitted, when blinking NON HDCP content is being transmitted
 - **LINK**- When solid, the link between transmitter and receiver is normal. When blinking or off the link between transmitter and receiver is lost and should be reset
5. HDMI IN- HDMI receiver input for local HDMI source
6. HDMI OUT- HDMI output for display connectivity
7. AUDIO OUT- Stereo analog audio output
8. FRONT PANEL CONTROL
 - **AUTO**- Enables auto switcher. When LED is on the auto switch function is ON
 - **HDBT IN** - HDBaseT / Transmitter input selector
 - **HDMI IN**- Receiver HDMI input selector

LED indicator status for HDBT and HDMI input:

 - When LED is violet, the input has signal and is selected
 - When LED is orange, the input has signal but is not selected
 - When LED is blue, the input has no signal but is selected
 - When LED is off, the input has no signal and is not selected
9. RS232- Serial control port for display control / 3rd party control
10. RELAY 1 / RELAY 2- Relay port 1 and 2 for room peripheral control
11. SCALER UPDATE- USB port for scaler firmware updates
12. DC12V- DC12V- Locking power port to connect DC12V power adapter

Connectivity Instructions

1. Verify all components included are present before installation.
2. Connect HDMI source devices to HDMI inputs on transmitter and receiver
3. Connect a VGA and audio source to VGA input and audio input on transmitter
4. Connect an HDMI display device to the HDMI output port on receiver
5. Connect Category 6 or greater twisted pair cable with RJ45 connectors between the DL-SE3H1V-C transmitter and the receiver. TIA/EIA-568B straight-through wiring connections must be used with this extender set.

Note: The HDBaseT transmitter supports up to 70m / 230' for 1080p applications and 40m / 130' for 4K applications

6. Connect AUDIO OUTPUT port on receiver to audio amplifier or powered speakers (optional)
7. Connect RS232 control port to displays RS232 control port for serial control (optional)
8. Connect RELAY 1 and 2 ports to projector screen or window shade control (optional)
9. Connect LAN port to control LAN for telnet system control (optional)

Note: A complete list of command sets are located on the DL-SE3H1V-C product page online at www.libav.com

10. Connect the included power supply to the receiver and lock the power supply to the power connector by twisting the locking collar clockwise.

Note: The DL-SE3H1V-C only supports one way PoH, when powering receiver you can also power the transmitter via HDBaseT. The transmitter cannot supply power to the receiver via HDBaseT when transmitter is powered by power supply.

11. Power on attached audio / video and control devices

Cabling Requirements

To ensure proper performance of the DL-SE3H1V-C, it is recommended that you use solid core shielded Category 6 F/UTP cabling at a minimum. Category 5e F/UTP may perform well but may not support power over HDBaseT reliably.



When using shielded category cabling ALWAYS...

....use shielded connectors

....properly ground the category cable

For optimized performance use the following Liberty Wire and Cable branded cabling;

Category 6 plenum; **24-4P-P-L6SH**

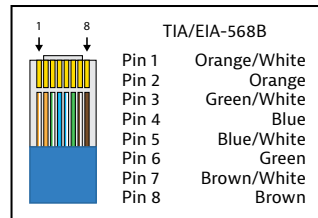
Category 6A plenum; **24-4P-P-L6ASH**

Category 6 NON-plenum; **24-4P-L6SH**

Category 6A NON-plenum; **24-4P-L6ASH**

Twisted Pair Wiring

Use TIA/EIA-568B wiring for Category 6 connection between send and receive units.



Technical Specifications

VIDEO	
Video Inputs	(2) HDMI transmitter; (1) VGA transmitter; (1) HDMI receiver;
Video Input Connector	(3) HDMI type A; (1) VGA female 15 pin
Input Video Signal	HDMI, VGA
Video Output	(1) HDMI
Video Output Connector	(1) HDMI type A
Output Video Signal	HDMI (receiver); HDBaseT (transmitter)
Input Resolutions Supported	HDMI: 4096 x 2160@24/30/60 (YUV4:2:0); 3840 x 2160@24/30/60 (YUV4:2:0); 1920 x 1200@60; 1920 x 1080@60; 1680 x 1050@60; 1600 x 1200@60; 1600 x 900@60; 1440 x 990@60; 1366 x 768@60; 1360 x 768; 1280 x 1024@60; 1280 x 960@60; 1280 x 768@60; 1280 x 720; 1024 x 768; 800 x 600@60 VGA: 1920 x 1200@60; 1680 x 1050@60; 1600 x 1200; 1600 x 900; 1440 x 900@60; 1366 x 768@60; 1360 x 768; 1280 x 1024@60; 1280 x 960@60 1280 x 800; 1280 x 768@60; 1024 x 768; 800 x 600@60
Standards	Compliant with HDMI 2.0 & HDCP2.2
Audio	
Supported output formats	PCM 2.0
Audio Output	Stereo analog
Audio Output Connector	(1) 3 Pin phoenix
Audio Output Impedance	70 Ohms
Frequency Response	20Hz~20K Hz
CONTROL	
Control Port / Connector	(1) LAN (Telnet- Port 23) / RJ45 (1) RS232 / 3 pin phoenix
Relay Port / Connector / Type	(2) RELAY / 3 pin phoenix / Momentary (default)
Relay coil operating current	5 VDC, 28mA. The coil limits the current; no external resistance is required.
Relay control contact rating	30 VDC, 2 A 125 VAC, 0.5 A
Other	
System Bandwidth	10.2Gbps
Transmission Distance	1080p 70m or less when using Cat6 F/UTP, 4K 40m or less when using Cat6 F/UTP
Temperature	0 ~ +45 C
Humidity	10% ~ 90%
Power Supply	DC12V 3A
Power Consumption	Receiver: When powered separately from transmitter: 14w; when powering transmitter: 21w Transmitter: 4.4w
Dimension (W*H*D)	Receiver: 223mm*25mm*154mm / 8.79"*.98"*6.07" Transmitter:194mm*20mm*94mm / 7.67"*.79"*3.7"
Weight	Receiver: 2.7 lbs Transmitter: 1lb
Warranty	5 years
Certification	CE, FCC, RoHS

Thank you for your purchase.

For Technical Support please call our toll free number at
800-530-8998 or email us at supportlibav@libav.com

www.libav.com

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