SAVANT

Savant® 4K HDR HDBaseT Matrix Switcher [SLN-xxVLC4K]
Quick Reference Guide

Box Contents

- (1) 4K HDBaseT Matrix Switcher (SLN-xxVLC4K)
- (1) AC Power Cord
- (8) IR Connector Cables for the SLN-88VLC4K
- (4) IR Connector Cables for the SLN-44VLC4K
- (2) Mounting Brackets
- (8) Mounting Bracket Screws
- (1) Product Regulatory Insert (009-1856-xx)

Accessories (sold separately)

- HRX-4KVLC40-xx
- HRX-4KVLC100-xx

Specifications

Environmental	
Temperature	32° to 104° F (0° to 40°C)
Humidity	10% to 90% (non-condensing)
Dimensions and Weights	
Height	1.71 in (4.35 cm)
Width	17.30 in (44.0 cm)
Depth	13.00 in (33.0 cm)
Weight	Net: 10.9 lbs (4.95 kg)
	Shipping: 13.8 lbs (6.27 kg)
Rack Space	1U
Power	
Input	100/240V AC (50/60 Hz)
Maximum	172.45W
Power over Cable (PoC) Output	18V 0.8A
	⚠ IMPORTANT! This cannot be disabled.
Video	
HDR	Supported
Supported Formats	720X576P[4] 1280x960[5] 1600x1200[5] 800x600[5] 1280x1024[5] 1680x1050[5] 1024x768[5] 1360x768[5] 1920x1080P[1,3,4,5] 1280x720P[5,6] 1366x768[5] 1920x1200[5] 1280x768[5] 1440x900[5] 3840x2160[1,2,3,4,5] 1280x800[5] 1600x900[5] 4096x2160[1,2,3,4,5]

1 = at 24 Hz | 2 = at 25 Hz | 3 = at 30 Hz | 4 = at 50 Hz | 5= at 60Hz

Audio	
Supported Formats	**HDMI/HDBaseT**: Pass-through of all HDMI audio formats are supported.
	Digital Audio Out: Up to Dolby 5.1, DTS 5.1

Regulatory				
Safety and Emissions	FCC Part 15 FC	CE CE	C-Tick	ETL Intertek
RoHS	Compliant			

Minimum Supported Release	
Savant OS	da Vinci 9.2

Front Panel

A	Reset	Press and Hold for 5s until the Status LED Blinks Rapidly then release to reset the network settings.
B	Power LED	Off: The matrix is powered off. Green: The matrix is powered on.
C	Status LED	Off: Does not have a valid IP address Green: Network is connected. Green Rapid Blinking: Reset network settings. Green Slow Blinking: Firmware is being upgraded.
D	Power Switch	Press to power on/off the matrix.

Supported Receivers

- HRX-4KVLC40
- HRX-4KVLC100
- HCX-4KHDR40
- HCX-4KHDR100
- HRX-SLN501 (does not support 4K)

HDBaseT Cable Information

Category 6 or greater twisted pair cable with RJ45 connectors between the transmitter and the receiver is recommended. TIA/EIA-568B straight-through wiring connections must be used.

HRX-4KVLC100

Transport Distance (4K)

Cat5e/6	230ft (70m)
Cat6a/7	328ft (100m)

Transport Distance (1080P)

Cat5e/6	328ft (100m)
Cat6a/7	328ft (100m)

HRX-4KVLC40

Transport Distance (4K)

Cat5e/6	115ft (35m)
Cat6a/7	131ft (40m)

Transport Distance (1080P)

Cat5e/6	197ft (60m)
Cat6a/7	230ft (70m)

TIA/EIA-568B
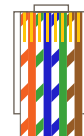
RJ-45 Connector (Gold pins facing up)

Network Requirements

All Savant devices must be connected to the same local area network (LAN) or subnet as the host. Savant recommends not implementing any type of traffic or packet shaping in the network topology, as this may interfere with performance.

Network Configuration

To ensure that the IP Address will not change due to a power outage, a static IP Address or DHCP reservation should be configured. Savant recommends using DHCP reservation within the router. By using this method, static IP Addresses for all devices can be managed from a single UI, avoiding the need to access devices individually.

Setting DHCP reservation varies from router to router. Refer to the documentation for the router to configure DHCP reservation.

Rear Panel

A	Power Input	100/240V AC (50/60 Hz).
B	Ethernet	8-Pin RJ-45 female connection. Used to communicate with the Savant System Host.
C	RS-232 Input	Serial Control from a control system. Not used in a Savant Deployment.
D	IR In	Receives IR Signals from a Savant or 3rd party controller to be transmitted to an HDBaseT receiver located at the endpoint.
E	IR Out	Sends IR signals transmitted from an HDBaseT receiver located at the endpoint to a Savant or 3rd party controller. This port can connect to an IR Flasher directly to an IR IN port on a device.
F	HDBaseT Out	8-pin RJ-45 female connection. Connects to compatible HDBaseT receivers via Cat 5e/6/7 cable to extend audio, video, and IR signal up to 100m. Also supplies power to the receiver.
G	Ground	Chassis Ground (optional)
H	Firmware	Not Used
I	HDMI In	(4 or 8) 19-Pin Type A HDMI female digital audio/video input. Supports HDMI 2.0a HDMI 2.0 compliant cable is required for 4K content.
J	HDMI Out	(4) 19-Pin Type A HDMI female digital audio/video output. Supports HDMI 2.0a. HDMI 2.0 compliant cable is required for 4K content. Mirrors HDBaseT output of the same number.
K	SPDIF Out	(4 or 8) Digital optical preamp output (TOSLINK), line-level 96kHz/24-bit output, fixed volume. These audio outputs are linked to the HDMI input of the same number. **NOTE**: This port supports up to Dolby 5.1, DTS 5.1.

IR Wiring

IR Control is pass-through only.

IR Connector Cable
Connect to 3.5 mm IR In to pass-through IR control from a Savant Controller.

| Pin 1	Not Used
Pin 2	IR + (Red)
Pin 3	IR - (Black)
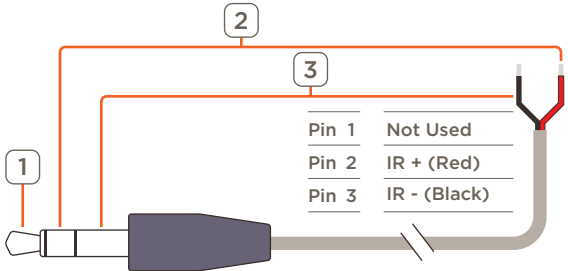
Installation

The SLN-xxVLC4K can be mounted in a 1U rack styler enclosure and is compatible with all standard 19-inch National Electrical Manufacturers Association (NEMA) rack mounts.
To install the mounting brackets do the following:

1. Aline the mounting bracket with the treaded holes on the side as shown below.

2. Secure with the included Bracket Screws.
3. Repeat steps 1 and 2 for the other side of the device.
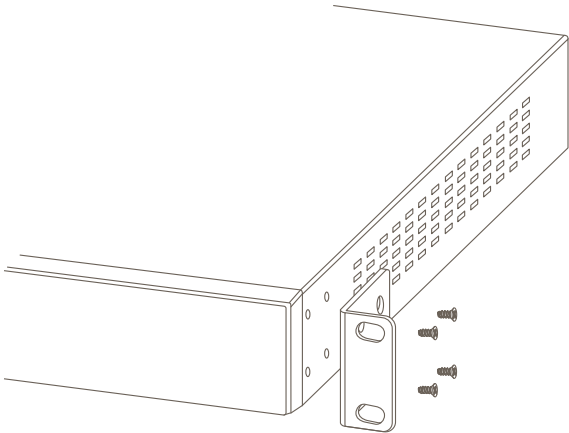
Further Product Information

To view available documentation, detailed product specs, and more:

– Visit the Savant Knowledge tab via the Savant Customer Community to search all Savant documentation.