



SSAV-EX22-BD-L User Manual



HDMI EXTENDER

over CAT6/6A/7 with IR

Thank you for purchasing SyncAV™ SSAV-EX22-BD-L. For best results and your safety, please read the instructions and keep the manual for future reference.

■ Important!

1. Do not connect or disconnect any cables while powered
2. Do not mix up the transmitter unit (TX) with the receiver unit (RX), and the IR blaster extension cable with the IR receiver extension cable
3. Use supplied DC 5V/2A adapter only. Using wrong power adapter can be a safety hazard, may cause damage to the equipment and will void warranty

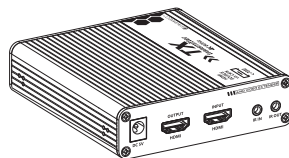
■ Introduction

SyncAV™ SSAV-EX22-BD-L HDMI extender transmits transmitted up to 70 meters at 4K resolution video over a single CAT6/6A/7 cable with zero latency and supports IR passback allowing user to control the source device with IR remote from the receiver site.

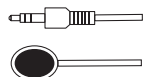
■ Features

1. Zero latency.
2. 4K@60Hz HDMI signal can be transmitted 70 meters through a CAT6/6A/7 network cable.
3. The receiver can extract the digital audio from the transmitter through the S/PDIF port.
4. Supports audio formats (Dolby TrueHD 7.1CH/Dolby Digital 5.1CH).
5. Supports HDR(YUV4:4:4), EDID passback.
6. Transmitter support one HDMI loop-out
7. Support bi-directional IR passback function (20- GOKHz).
8. Lightning Protection, Surge Protection, ESD Protection.

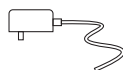
■ What's in the Box



1 x
Transmitter unit (TX)



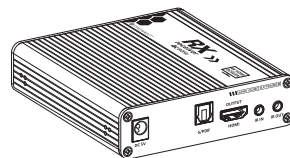
1 x
IR blaster
extension cable



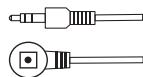
2 x
DC adapter



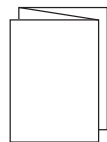
8 x
Mounting brackets



1 x
Receiver unit (RX)



1 x
IR receiver
extension cable



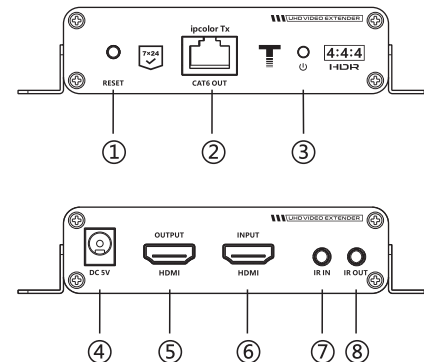
User manual



18 x
Screw

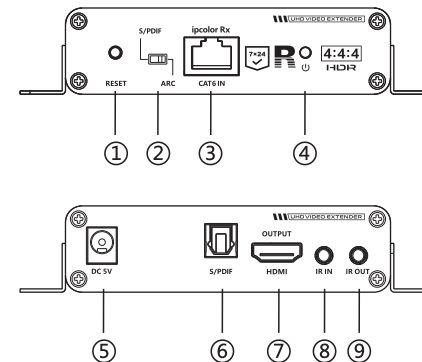
■ Panel Description

1. Transmitter unit (TX)



①	Reset button	Press to restart the device
②	RJ45 signal output	Connect with network cable
③	Power/Signal indicator	When there is power and no HDMI signal, the indicator will flash, when there is HDMI signal, the indicator will light solid blue
④	DC5V input	Connect with DC5V/2A power adapter
⑤	HDMI output	Connect with HDMI display device
⑥	HDMI input	Connect with the source device
⑦	IR in	Connect with IR receiver extension cable, please make sure the remote control used is within the effective range
⑧	IR out	Connect with IR blaster extension cable, please get closer to the source device while using

1. Receiver unit (RX)



①	Reset button	Press to restart the device
②	Audio switch	Choose to decode audio from HDMI or ARC output from fiber optic interface
③	RJ45 signal input	Connect with network cable
④	Power/Signal indicator	When there is power and no HDMI signal, the indicator will flash, when there is HDMI signal, the indicator will light solid blue
⑤	DC5V input	Connect with DC5V/2A power adapter
⑥	S/PDIF out	Output digital audio signal
⑦	HDMI output	Connect with HDMI display device
⑧	IR in	Connect with IR receiver extension cable, please make sure the remote control used is within the effective range
⑨	IR out	Connect with IR blaster extension cable, please get closer to the source device while using

Disclaimer

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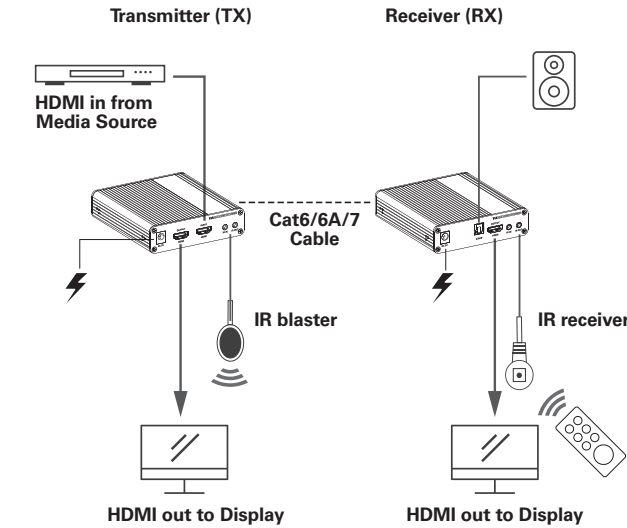
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Any pictures in the user manual are for reference only and may differ from the physical products.

We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, functionality or design.

Setting up the system

Connect all the components as per picture below. Make sure all the cables are plugged in BEFORE powering up the system. Place the IR blaster as close as possible to the device you want to control with your remote. Wait ‘till the connection is established (LINK LED on the receiver unit turns solid).



[NOTE] It is recommended to use a length range within 2~ 70m network cable. If the cable is too short, there may be no display output because the signal is too strong. If the cable is too long, the output may be with poor quality.

Connection instruction

- 1) Connect the source device to the HDMI in port of the transmitter with an HDMI cable, and connect the HDMI out port of the receiver to the display device with another HDMI cable.
- 2) Connect the CAT out port of the transmitter and the CAT in port of the receiver via a network cable (CAT6/CAT6A/CAT7).
- 3) If using HDMI loop out, connect the display device to the HDMI OUT port of the transmitter.
- 4) Plug the power supply into the device to get started.

IR User Guide:

- 1) IR blaster extension cable should plug in the IR OUT port of the transmitter and receiver, IR receiver extension cable should plug in the IR IN port of the transmitter and receiver.
- 2) The emitter of the IR blaster extension cable should be as close as possible to the IR receiving window of the source device.
- 3) Face the receiving head of the IR receiver extension cable to the user for convenient remote control.

FAQ

- Q: There is no output on screen when all connections are correct?
- A: 1) Please make sure the HDMI cables supports 4Kx2K if the output signal from the source device is 4Kx2K resolution.
- 2) Please check and make sure the network cable insert to the RJ45 port well.
- 3) Restart the transmitter or receiver by pressing the reset button.
- Q: Black screen happened on the display/monitor?
- A: 1) Check if the length of the cable is within the specified range.
- 2) Reset the transmitter to re-built the connection.
- Q: The display shows unusual color or no sound?
- A: 1) Reset the transmitter or receiver to re-built the connection.
- 2) Check if the HDMI cables are connected well.
- 3) Reconnect the network cable.

Specification

Items		Specification
Power Supply	Voltage/Current	DC5V/2A
	Power consumption	TX<4W RX<4W
HDMI Performance and Interface	HDMI compliance	HDMI 2.0
	HDCP compliance	HDCP 2.2
	HDMI resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 3840x2160@24/25/30/50/60Hz, 4096x2160@24/25Hz, 1280x960, 1280x800, 1280x768, 1680x1050, 1360x768, 1366x768, 1600x900, 1024x768, 800x600
HDMI Performance and Interface	Supports audio formats	LPCM/DTS-HD/DTS-Audio/Dolby TrueHD 7.1CH/ Dolby Digital 5.1CH
	Input and output TMDS signal	0.7~1.2Vp-p(TMS)
	Input and output DDC signal	5Vp-p(TTL)
	Input cable length	≤8m(AWG24)
	Output cable length	≤8m(AWG24)
Transmission Distance	CAT6/6A/7	≤70m
Protection Level	Electrostatic protection of the whole machine	1a Contact discharge level 3 1b Air discharge level 3 Implementat of the standard: IEC61000-4-2
Operating Environment	Working temperature	-20~60℃
	Storage temperature	-30~70℃
	Humidity (no condensation)	0~90%RH
Body Properties	Dimension	106.0(L) x 99.0(W) x 26.2(H)mm
	Material	Aluminium alloy material + crystal panel
	Treatment process	Grit blast
	Colour	Black
Weight		TX: 210g RX:210g