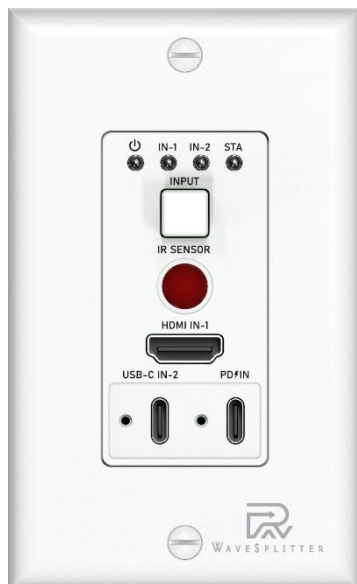


WST-PEX015

70M 4K60Hz USB-C / HDMI

Wall Plate Switcher over Cat.6 Extender



4K60 | 70M | Bidirectional PoC

USB-C & HDMI

SAFETY INSTRUCTIONS

**1. Keep Dry**
防水防潮

Do not expose this apparatus to rain, moisture, dripping or splashing. Do not place objects filled with liquids, such as vases, on the apparatus.

請勿將本設備暴露於雨水、濕氣、滴水或潑水之下，亦不得在設備上放置盛有液體的物品，例如花瓶。

**2. Ventilation 保持通風**

Do not install or place this unit in a bookcase, built-in cabinet or other confined space. Ensure the unit is well ventilated.

請勿將本設備安裝或放置於書櫃、內置櫃或其他密閉空間。請確保設備通風良好。

**3. Ventilation Openings**
勿遮擋散熱孔

To prevent electric shock or fire due to overheating, do not obstruct ventilation openings with newspapers, tablecloths, curtains or similar items.

為避免過熱造成觸電或火災，請勿以報紙、桌布、窗簾或類似物品遮擋設備的通風孔。

**4. Heat Sources | 遠離熱源**

Do not install near heat sources such as radiators, heat registers, stoves or other apparatus, including amplifiers, that produce heat.

請勿安裝於暖氣設備、暖氣出風口、火爐或其他會產生熱量的設備（包括擴大機）附近。

**5. Open Flames | 遠離明火**

Do not place sources of naked flames, such as lighted candles, on the unit.

請勿在設備上放置明火，例如點燃的蠟燭。

**6. Cleaning**
清潔方式

Clean this apparatus only with a dry cloth.

僅可使用乾布清潔本設備。

**7. Disconnect Power**
拔除電源

Unplug this apparatus during lightning storms or when unused for long periods of time.

雷雨期間或長時間不使用時，請拔除本設備的電源插頭。

**8. Power Cord**
保護電源線

Protect the power cord from being walked on or pinched, particularly at plugs.

請避免電源線遭到踩踏或夾壓，尤其是插頭處。

**9. Accessories**
指定配件

Only use attachments and accessories specified by the manufacturer.

僅可使用製造商指定的附件及配件。

**10. Servicing | 專業維修**

Refer all servicing to qualified service personnel.

所有維修作業均應交由合格的專業人員進行。



Introduction

The WST-PEX015 HDMI / USB-C Switcher Extender Kit features a US Decora-style wall plate transmitter designed for meeting rooms, classrooms, and professional AV integration. It provides a clean, reliable, and easy-to-deploy AV extension solution that combines elegant installation with practical functionality.

Supporting HDMI2.0b, USB-C (DisplayPort Alt Mode), and HDCP2.3, the WST-PEX015 delivers high-resolution video up to 4K60Hz. Using a single CAT6 cable, it extends 4K video signals up to 70M, providing a cost-effective solution for long-distance AV transmission.

The transmitter features dual video inputs, including HDMI and USB-C (DisplayPort Alt Mode). A dedicated USB-C Power Delivery (PD) input allows an external power adapter to charge the connected USB-C source device while simultaneously transmitting audio and video. Built-in automatic input switching detects the active source and automatically switches between inputs between inputs, while the integrated wall plate button enables manual source selection whenever required.

The WST-PEX015 also incorporates Bi-Directional Power over Cable (PoC) technology, allowing a single power adapter connected to either the transmitter or receiver to power both units through the CAT6 cable. Combined with its US 1-Gang Decora wall plate design, the system simplifies installation, minimizes cable clutter, and delivers a clean, professional appearance. The WST-PEX015 is an ideal solution for modern BYOD meeting rooms, corporate collaboration spaces, educational facilities, and professional AV installations requiring reliable 4K signal extension.

Key Features

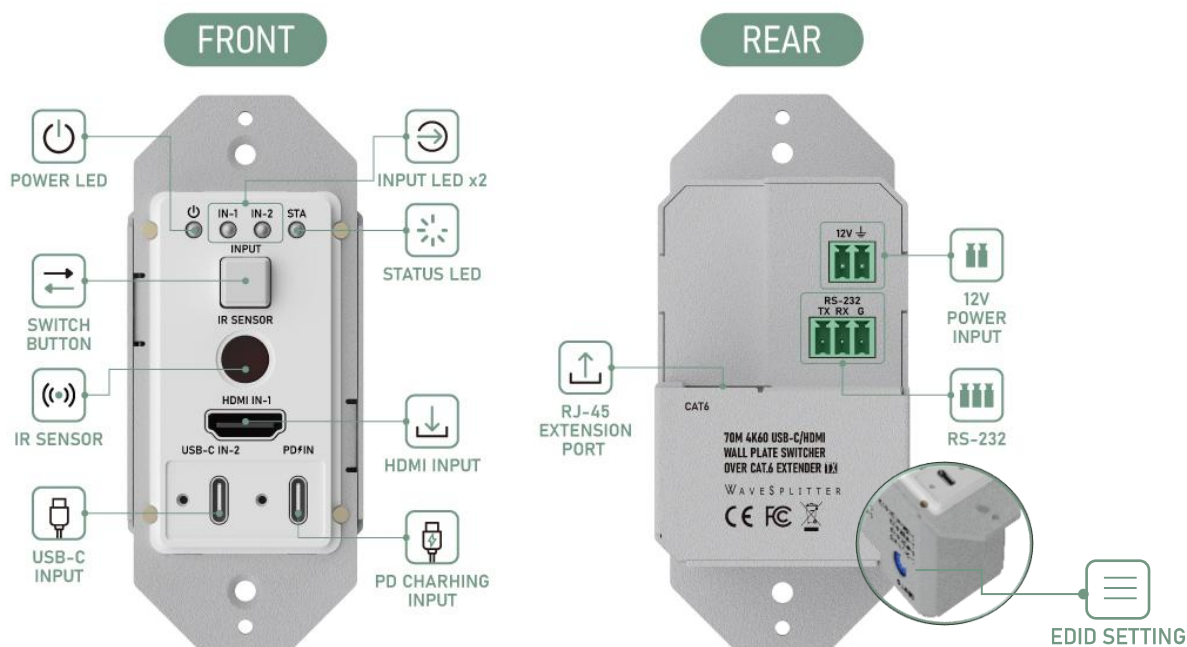
- Supports video resolutions up to 3840x2160@60Hz 4 : 4 : 4 8-bit, with HDR10 support
- Compatible with HDCP1.4 / 2.2 / 2.3
- Supports 4K60Hz transmission distances up to 70M
- Supports dual input sources: USB-C and HDMI
- Supports automatic and manual input switching
- Supports USB-C PD power back-charging, allowing power delivery to USB-C source devices with up to 100W output
- Supports bi-directional PoC, allowing power to be supplied from either the transmitter or receiver side
- Transmitter features a wall plate design for installation in a standard 1-gang electrical box
- Supports analog audio de-embedding at the receiver side. The 3.5mm analog audio output supports 2.0-channel audio with sampling rates up to 96kHz
- Supports IR signal extension from the transmitter to the receiver
- Supports EDID copy mode and seven preset EDID settings

Package Contents

US Wall Plate 1-Gang Transmitter x 1 | Receiver x 1 | 12V/1A Multi-Country Power Adapter x 1 | IR Emitter x 1 | Phoenix Male Connector (3-pin) x 2 | Phoenix Male Connector (2-pin) x 1 | Ear Mounts x 2 | Screws Pack x 1

Panel Overview

TRANSMITTER



NAME	DESCRIPTION
POWER LED	On: The device is powered on.
IN-1 LED (HDMI INPUT)	On: The HDMI input channel is currently selected.
IN-2 LED (USB-C INPUT)	On: The USB-C input channel is currently selected.
STA LED	On: A valid signal is being output.
SWITCH BUTTON	Short press to switch the input source between HDMI and USB-C.
IR SENSOR	Receive IR signals for IR passthrough to the receiver over UTP.
HDMI INPUT	Connect to an HDMI source.
USB-C INPUT	Connect to a USB-C source.
PD CHARGING INPUT	Supports two functions: - Connect to an external power source (up to 100W) to charge the PC connected to USB-C IN, not the extender kit. - Connect to a PC for firmware upgrades.
RJ-45 EXTENSION PORT	Connect to the UTP IN port of the receiver via a Cat 6 or higher cable.
12V POWER INPUT	Connect to an external power adapter (not included). With bidirectional PoC support, power can be delivered over UTP from either unit.
RS232	Connect to an RS-232 device for RS-232 data passthrough.
EDID Setting	EDID rotary switch (0–9) for input EDID selection. 0: Copy from RX. 1: 4K@60Hz, 2ch input EDID. 2: 4K@30Hz, 2ch input EDID. 3: 2560x1440@60Hz, 2ch input EDID. 4: 1920x1200@60Hz, 2ch input EDID. 5: 1080P@60Hz, 2ch input EDID. 6: 4K@60Hz, 5.1ch input EDID. 7: 4K@30Hz, 5.1 ch input EDID 8: Reserved. 9: Reserved.

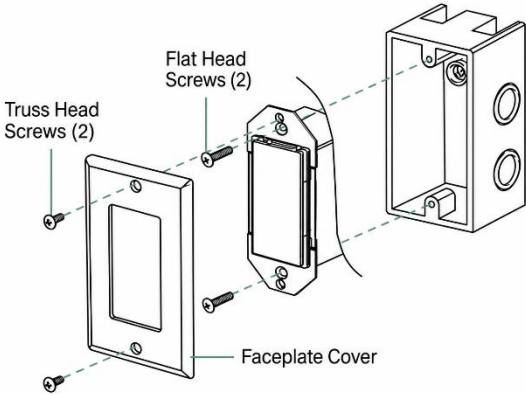
RECEIVER



NAME	DESCRIPTION
HDMI OUTPUT	Connect to an HDMI display.
3.5MM AUDIO OUTPUT	Connect to an audio receiver for de-embedded audio output.
IR OUT	Connect to the included IR emitter cable for IR passthrough.
RS-232	Connect to an RS-232 device for RS-232 data passthrough.
12V	Connect to the included power adapter. With bidirectional PoC support, power can be delivered over UTP from either unit.
POWER LED	On: The device is powered on
RJ-45 EXTENSION PORT	Connect to the UTP OUT port of the transmitter via a Cat 6 or higher cable
STATUS	On: A valid input signal is detected and actively output to the connected display.
FW UPDATE	Micro USB port. Connect to a PC for firmware upgrades.

Installation

1. Mount the device to a 1-gang electrical box using the included #6-32 × 3/4" flat head screws.
2. Secure the faceplate cover to the device using the included #6-32 × 1/4" truss head screws.

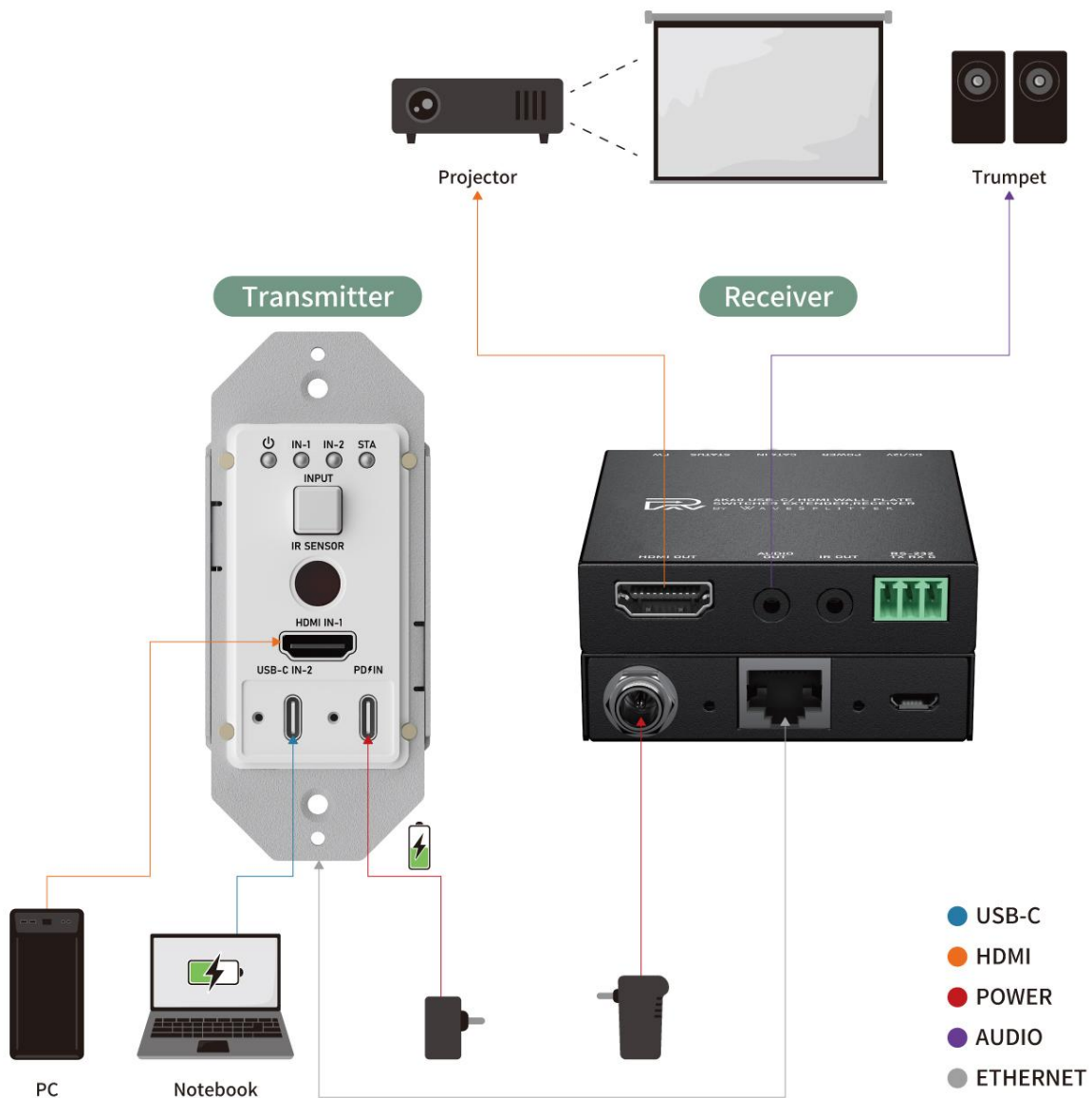




Before starting the installation, please ensure that all devices are powered off.

1. Connect an HDMI or USB-C source device to the Transmitter unit using an HDMI or Type C cable.
2. Connect one end of the Cat.6 cable to the RJ-45 Out port on the Transmitter and the other end to the RJ-45 Port In port of the Receiver. U/UTP or F/UTP installation cables are recommended. For cable lengths please see the Specifications of this manual.
3. Use another HDMI cable to connect an HDMI display device to the HDMI output port on the Receiver unit.
4. Please ensure that all the dip-rotary in the correct position, see above for details.
5. Plug the DC power supply into either the Transmitter or Receiver and switch on.
6. Power on the source device and display to complete the installation.

Connection Diagram



Specifications

Interface	Transmitter	Receiver
Video Input	HDMI Type-A (Female) x 1 USB-C (Female) x 1	Extension Port (RJ-45) x 1
Video Output	Extension Port (RJ-45) x 1	HDMI Type-A (Female) x 1
Control I/O	RS-232 (3-Pin Phoenix Terminal Block) x 1 IR Sensor x 1	RS-232 (3-Pin Phoenix Terminal Block) x 1 IR Out (3.5mm Jack) x 1
Audio		Analog Audio Line Out (3.5mm Jack) x 1
USB		Micro USB Port for FW updating
Power	2-pin Phoenix Terminal Block x 1 USB-C PD Port x 1	12V/1A (DC Plug : 5.5 / 2.1mm with Locking) x 1
Transmission		
HDMI Compliant		HDMI2.0b
HDCP Compliant		1.4 / 2.2/ 2.3
Bandwidth		18Gbps
Output Resolution		4096x2160@60Hz / 3840x2160@60Hz / 2560x1440@60Hz / 1920x1200@60Hz / 1920x1080@60Hz
Audio Format		HDMI Audio Pass-Through Stereo Audio : PCM2.0
IR Frequency		30 ~ 50KHz
Power		
Power Supply	12V/1A 2-pin Phoenix Terminal Block. PoC	12V/1A DC (Select one side for power-on) PoC
Max. Power Consumption		6.3W
Environment		
Operating Temperature		0°C ~ 45°C
Storage Temperature		-20°C ~ 70°C
Product Structure		
Main Material	TX : SGCC	RX : SGCC
Size W x D x H	TX : 45 x 105.6 x 45.3mm	RX : 63 x 15.2 x 80mm
Weight	TX : 230g	RX : 120g
Country of Origin		China
Certification		
Safety & Emission		CE / FCC / RoHS / REACH