# 100M 4K30Hz HDMI over Cat.6 Extender

No.WST-PEX016



## Introduction

WST-PEX016 is an HDMI 4K@30Hz extender designed to deliver reliable long-distance AV transmission up to 100 meters. It is ideal for meeting rooms, presentation spaces, and professional AV applications, providing a stable and efficient solution for extending high-quality HDMI signals over long distances.

Using a single CAT6 / 6A cable, the WST-PEX016 can extend 4K@30Hz HDMI signals up to 100 meters, effectively overcoming the distance limitations of conventional HDMI cabling. It also supports bi-directional PoC, bi-directional IR control, and EDID pass-through, helping reduce additional power supplies and cabling requirements while simplifying system installation and infrastructure deployment. The result is a clean, reliable, and easy-to-integrate professional AV environment

## Key Features

- Supports resolutions up to 4096x2160@30Hz 4：4：4 8-bit
- Compatible with HDCP1.4
- Transmission distance up to 100 meters via Cat.6 cable
- Supports bi-directional PoC, allowing power to be supplied from either the transmitter or receiver side
- Supports pass-through IR signal extension
- Supports EDID pass-through
- Transmitter features a local display loop-out for convenient on-site monitoring

## Package Contents

Transmitter x 1 | Receiver x 1 | 12V/1A Multi-Country Power Adapter x 1 | IR Emitter cable x 1 | IR Receiver cable x 1

## Specifications

| **Interface** | Transmitter | Receiver |
|---|---|---|
| Video Input | HDMI Type-A（Female）x 1 | Extension Port（RJ-45）x 1 |
| Video Output | Extension Port（RJ-45）x 1<br>Loop out：HDMI Type-A（Female）x 1 | HDMI Type-A（Female）x 1 |
| Control I/O | IR IN（3.5mm Jack）x 1<br>IR OUT（3.5mm Jack）x 1 | IR IN（3.5mm Jack）x 1<br>IR OUT（3.5mm Jack）x 1 |
| Power | 12V/1A（DC Plug：5.5 / 2.1mm with Locking） | 12V/1A（DC Plug：5.5 / 2.1mm with Locking） |
| **Transmission** | | |
| HDMI Compliant | HDMI1.4b | |
| HDCP Compliant | 1.4 | |
| Bandwidth | 10.2Gbps | |
| Output Resolution | 4096x2160@30Hz / 3840x2160@30Hz / 1920x1200@60Hz / 1920x1080@60Hz | |
| IR Frequency | 20 - 60kHz | |
| **Power** | | |
| Power Supply | 12V/1A DC（Select one side for power-on）PoC | 12V/1A DC（Select one side for power-on）PoC |
| Max. Power Consumption | 3.24 W | |
| **Environment** | | |
| Operating Temperature | 0˚C ~ 40˚C | |
| Storage Temperature | -20˚C ~ 70˚C | |
| **Product Structure** | | |
| Main Material | TX：Metal | RX：Metal |
| Size W x D x H | TX：74 x 68 x 20mm | RX：74 x 68 x 20mm |
| **Package** | | |
| Package Style | Box | |
| Barcode EAN | 4710582481581 | |
| Weight | TX：162g | RX：159g |
| Country of Origin | China | |
| **Certification** | | |
| Safety & Emission | CE / FCC / RoHS / REACH | |

## Panel Overview

TRANSMITTER




RECEIVER



## Connection Diagram

