AV Access

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U2EX50

USB2.0 Extender 60m TX/RX



User Manual

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Business inquiry: **services@avaccess.com**

Technical problems: **support@avaccess.com**

Important Safety Instructions

- Do not expose this device to rain, moisture, dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the device.
- Do not install or place this unit in a bookcase, built-in cabinet, or in another confined space. Ensure the unit is well ventilated.
- To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, or similar items.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
- Do not place sources of naked flames, such as lighted candles, on the unit.
- Clean this device only with dry cloth.
- Unplug this device during lightning storms or when unused for long periods of time.
- Protect the power cord from being walked on or pinched, particularly at plugs.
- Only use attachments / accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel.

Table of Contents

Introduction **2**
Overview 2
Package Contents 3
Panel 4
Transmitter 4
Receiver 6
Installation Instructions **8**
Video conference system: 8
Personal entertainment system: 9
Personal or public surveillance system: 10
Specification **11**
Warranty **13**

Introduction

Overview

The U2EX50 USB 2.0 extender is a slim transmitter (TX) receiver (RX) pair that can extend a USB-HID device signal up to 80m/263ft and USB 2.0 storage device signal up to 60m/197ft via Cat X cable. The built-in USB HUB in the RX supports up to 4 USB 2.0 ports. The TX can be powered by the host such as a PC.

- Supports high-speed USB 2.0 (Up to 480Mbps) storage device over Cat 5e/Cat 6 cable up to 60m (197 ft) and USB-HID device up to 80m (263ft)
- 4 x USB device connections supported by the Hub
- TX is powered by USB port, and RX is powered by lockable DC supply with 500mA to each USB device
- True plug-and-play, 100% hardware solution with no driver installation required
- Supports all major operating systems: Windows, Mac OS and Linux
- Compatible with USB 1.1 and USB peripherals

Package Contents

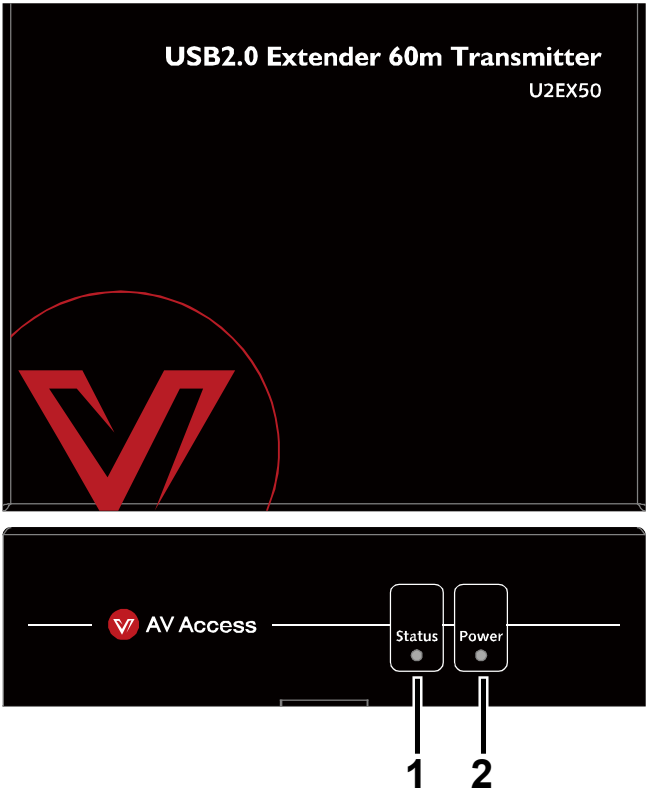
Before you start the installation of the product, please check the package contents:

- U2EX50(TX) x 1
- U2EX50(RX) x 1
- Power Adapter (12V 1A) x 1
- USB-A to USB-B Cable x 1
- Mounting Brackets (Pair) x 2
- User Manual x 1

Panel

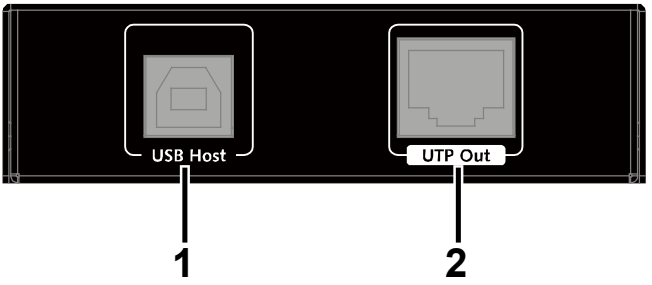
Transmitter

Front Panel



No.	Name	Description
1	Status LED	Blinking: The device is working properly. OFF: The device is not working properly.
2	Power LED	ON: The device is powered on. OFF: The device is powered off.

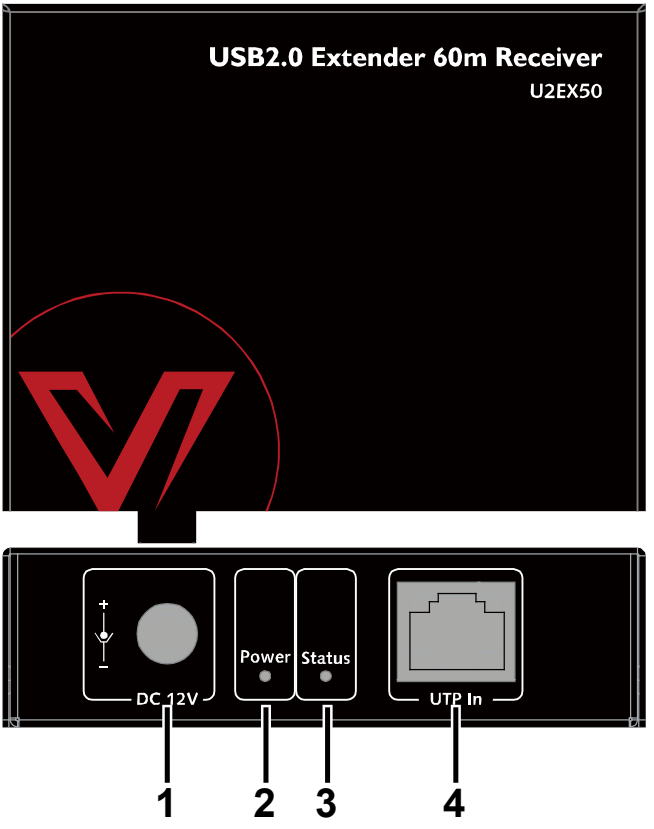
Rear Panel



No.	Name	Description
1	USB Host	Connects to the PC with USB-A to USB-B cable
2	UTP Out	Connects TX and RX with a Cat X cable

Receiver

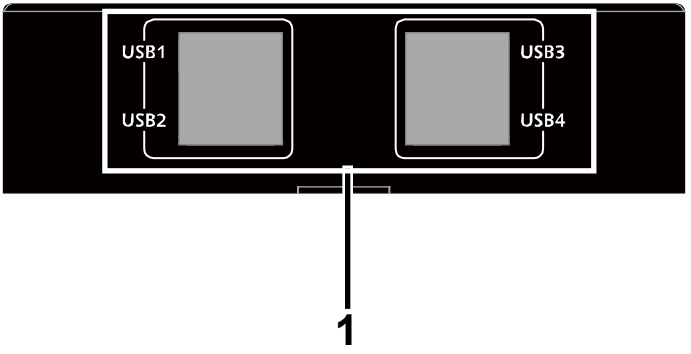
Front Panel



No.	Name	Description
1	DC 12V	Connects to the DC 12V power adapter provided.
2	Power LED	ON: The device is powered on. OFF: The device is powered off.
3	Status LED	Blinking: The device is working properly. OFF: The device is not working properly.

No.	Name	Description
4	UTP In	Connects TX and RX with a Cat X cable

Rear Panel

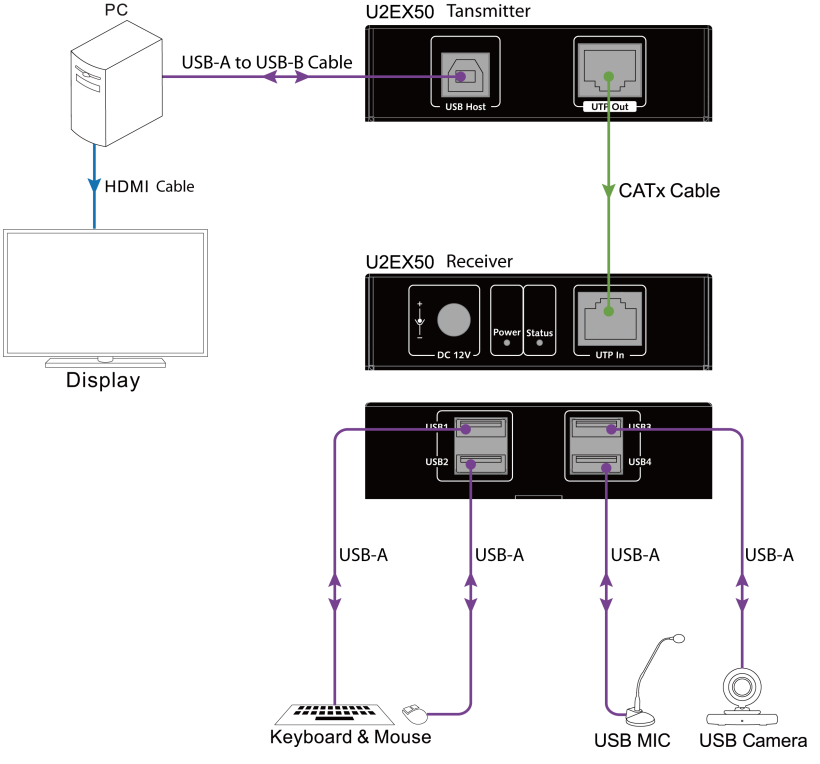


No.	Name	Description
1	USB 1~4	Connects to USB device such as keyboard, mouse, MIC, camera

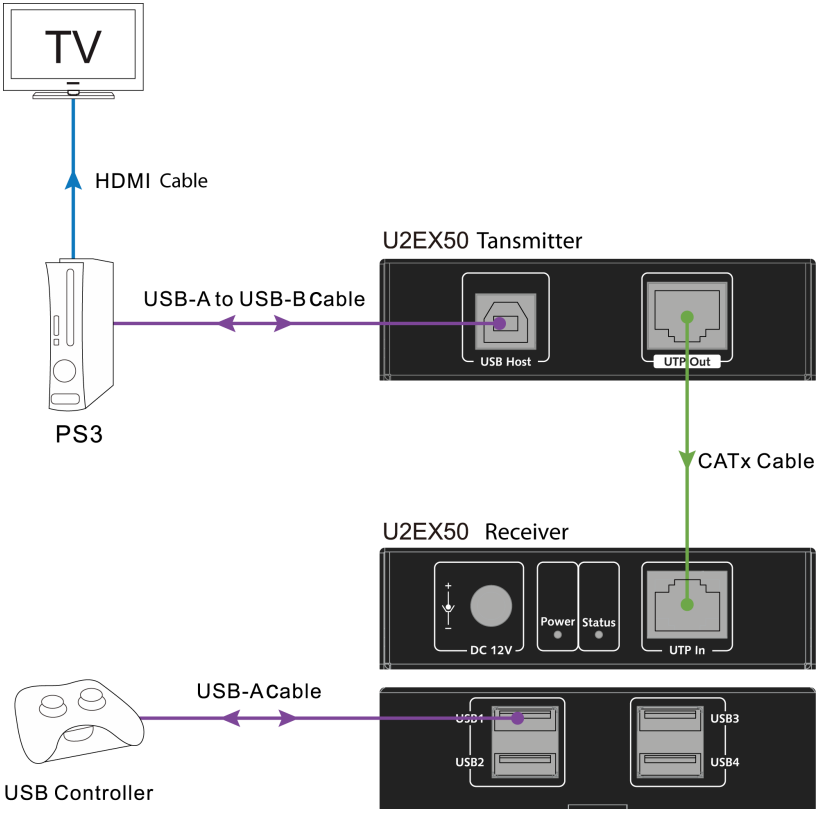
Installation Instructions

During installation, connect or disconnect the cables gently.

Video conference system:

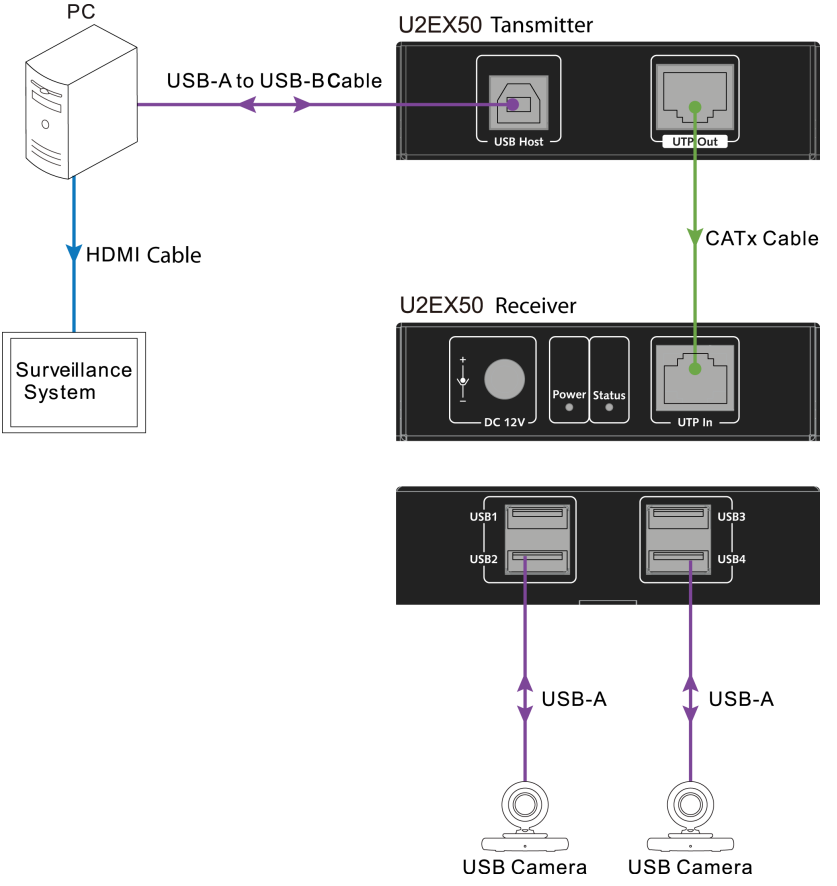


Personal entertainment system:



Personal or public surveillance system:

Under this situation, two USB cameras are prior recommended. If you want to use more cameras simultaneously, it depends on your PC's USB ability, as we know, because of the USB authentication time limit, more USB cameras will not work properly.



Specification

Technical	
I/O Connections	**TX:** 1 x USB Type-B 1 x UTP Out **RX**:1 x UTP IN 1 x DC 12V IN 4 x USB2.0
General	
Power Supply	DC 12V 1A power adapter
Power Consumption	4.5W
Bandwidth	USB 2.0 up to 480Mbps
Operating Temperature	32°F to 113°F (0°C to 45°C) 10% to 90%, non-condensing
Storage Temperature	-4°F to 158°F (-20°C to 70°C) 10% to 90%, non-condensing
ESD Protection	Human Body Model: ±8kV (air-gap discharge)/ ±4kV (contact discharge)
Surge Protection	Voltage: ±1k V
Dimensions	90mm × 71mm × 25mm/3.54″ × 2.79″ × 0.98″
Weight	0.35kg/0.77lb

Cable Specification:

Cable Type	Range	Supported USB Devices
Cat 5e/6	Up to 263ft (80m)	USB-HID device
	Up to 197ft (60m)	USB 2.0 storage device

Trouble Shooting

Steps of Regular Troubleshooting Routine

1. **Power:** Make sure all devices are powered on (source, extender and display devices).
2. **Indicator:** Make sure LED indicators of extender are normal according to user manual.
3. **Devices**: Make sure picture can be shown normally when connecting sources to display device directly.
4. **Cable**: Plug in and out the Cat 5e/6 cable or change to another Cat 5e/6 cable.

   Ensure the cable length is within the available transmission range according to specification.
5. **Compatibility**: Please test other source and display devices to determine if it is a compatibility issue.

Warranty

Products are backed by a limited 1-year parts and labor warranty. For the following cases AV Access Technology Limited shall charge for the service(s) claimed for the product if the product is still remediable and the warranty card becomes unenforceable or inapplicable.

1. The original serial number (specified by AV Access Technology Limited) labeled on the product has been removed, erased, replaced, defaced or is illegible.
2. The warranty has expired.
3. The defects are caused by the fact that the product is repaired, dismantled or altered by anyone that is not from an AV Access Technology Limited authorized service partner. The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
4. The defects are caused by any force majeure including but not limited to accidents, fire, earthquake, lightning, tsunami and war.
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