VEDINDUST 202503220002

VEDINDUST HDMI Splitter Extender 4K30Hz 1 in 5 out User Manual

Model: 202503220002

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the VEDINDUST HDMI Splitter Extender 4K30Hz 1 in 5 out. This device allows for the simultaneous transmission of high-definition audio and video data from a single HDMI source to up to five HDMI displays. It supports transmission over Cat5e/6/7 network cables for extended distances and includes an HDMI loop-out port for local display.

2. PRODUCT OVERVIEW

2.1 Key Features

- **HDMI Extender Splitter:** 1 HDMI input to 4 RJ45 outputs (for receivers) and 1 HDMI loop-out.
- **Extended Transmission:** Transmits HDMI signals up to 50 meters (165 feet) over Cat6/7 cables to receivers. The HDMI loop-out supports up to 10 meters with a standard HDMI cable.
- **4K30Hz HD Resolution:** Supports video resolutions up to 4K@30Hz, 3D, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i.
- **Audio Support:** Compatible with DTS-HD, LPCM7.1, DTS, DSD audio formats.
- **HDMI 1.4:** Provides a transmission rate of 4.95Gbps for smooth and stable picture quality.
- **EDID Management:** Automatic identification and locking of input source resolution, with support for copying EDID information from the main monitor.
- **Independent Power for Receivers:** Each receiver has its own 5V power supply for stable long-distance signal transmission.
- **Easy Installation:** Driver-free setup and wall-mountable design.

2.2 Package Contents

Please check the package contents upon unboxing to ensure all items are present:

- 1x HDMI Splitter Extender Transmitter

- 4x HDMI Extender Receivers
- 5x DC12V Power Adapters
- Fixed Brackets (for mounting)
- 1x User Manual

Image: Contents of the product package, including the main transmitter unit, four receiver units, five DC12V power adapters, mounting brackets, and the user manual.

3. Setup Instructions

Follow these steps to set up your HDMI Splitter Extender system:

1. **Connect the HDMI Source:** Connect your HDMI source device (e.g., laptop, PC, media player) to the "HDMI IN" port on the Transmitter using a high-quality HDMI cable.

2. **Connect Local Display (Optional):** If you wish to have a local display, connect an HDMI cable from the "HDMI OUT" (loop-out) port on the Transmitter to your local HDMI display.

3. **Connect Receivers:** Connect Cat5e/6/7 network cables from the "CAT1" through "CAT4" RJ45 output ports on the Transmitter to the "RJ45 CAT6/7 Input Port" on each of the four Receivers. Ensure the cables are wired using the 568B standard for optimal performance and distance.

4. **Connect Remote Displays:** Connect an HDMI cable from the "HDMI OUT" port on each Receiver to its respective remote HDMI display.

5. **Power On:** Connect the provided DC12V power adapters to the "DC12V" input on the Transmitter and each of the four Receivers. Plug all power adapters into a power outlet.

6. **Verify Connections:** Ensure all cables are securely connected. The LED indicators on both the Transmitter and Receivers should illuminate, indicating power and signal presence.
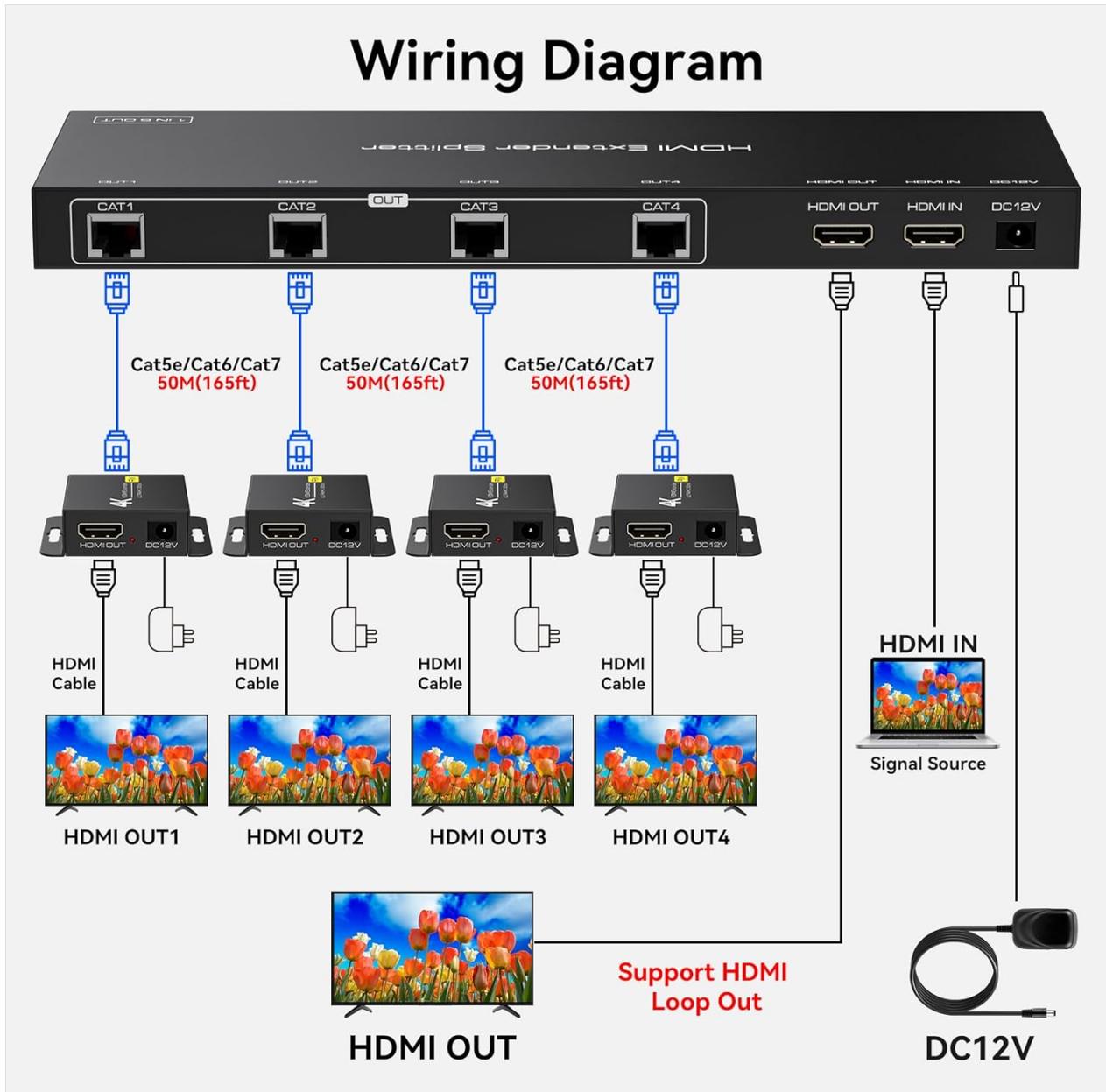
Wiring Diagram

Image: A detailed wiring diagram illustrating how to connect the HDMI source, transmitter, Cat5e/6/7 cables, receivers, and multiple HDMI displays, including the HDMI loop-out connection.
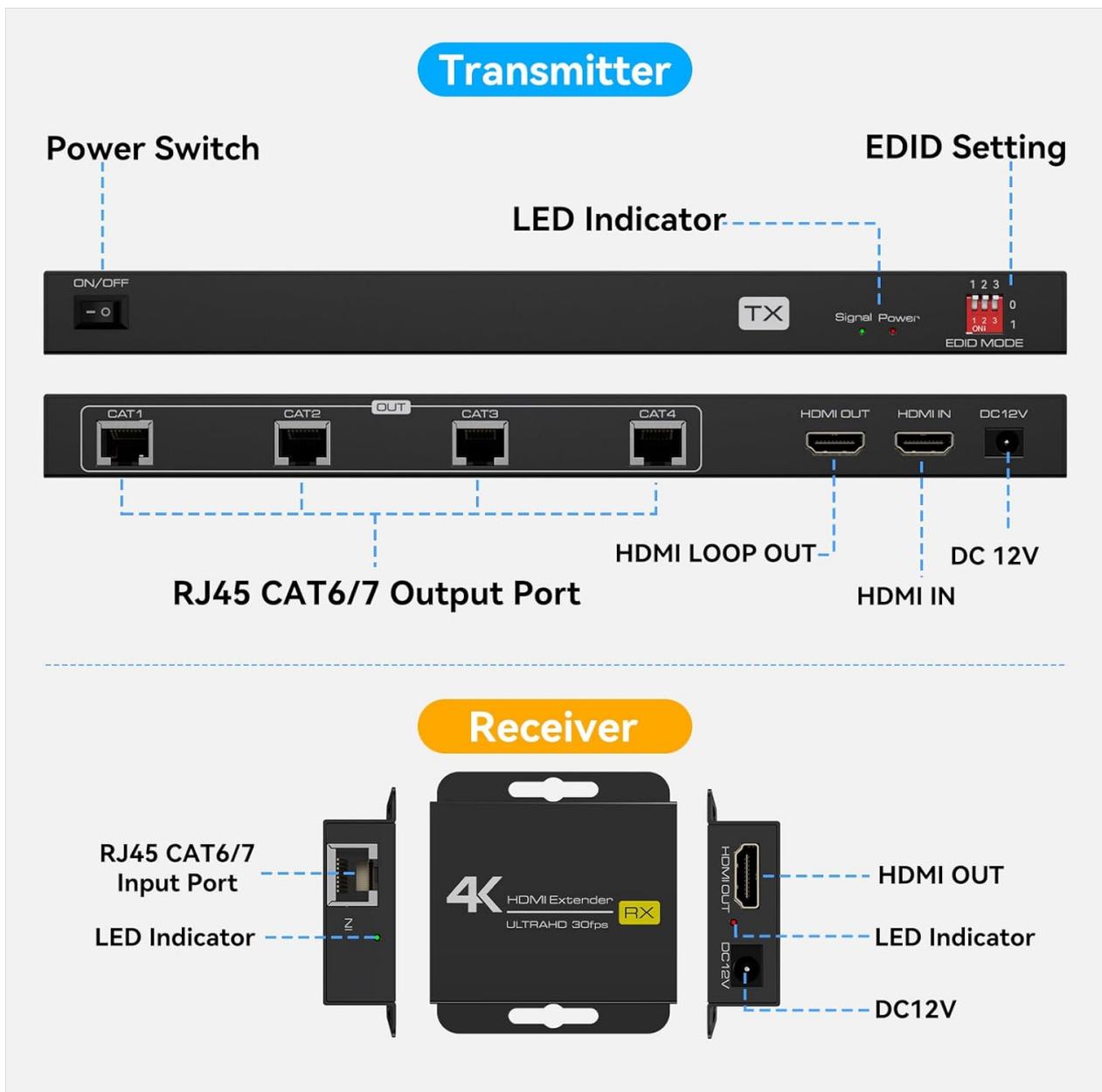
Image: Close-up view of the transmitter and receiver units, labeling all input/output ports, power connections, LED indicators, and the EDID setting switches on the transmitter.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Use the "ON/OFF" switch on the Transmitter to power the unit on or off. Ensure all connected devices are also powered on.

4.2 EDID Management

The EDID (Extended Display Identification Data) setting on the Transmitter allows you to manage the video and audio capabilities reported to the source device. This ensures compatibility and optimal display quality across all connected monitors.

1. Locate the "EDID MODE" dip switches on the Transmitter. There are three switches (1, 2, 3).

2. Refer to the EDID dial codes diagram below to select the desired resolution and audio format. "0" typically means the switch is in the downward position, and "1" means it's in the upward position.

3. **Copy Mode:** If you have multiple monitors with varying resolutions, it is recommended to use "Copy Mode". In this mode, the Transmitter will copy the EDID information from the monitor connected to the

HDMI OUT1 port (the first remote display). For best results, connect the monitor with the *lowest* resolution to HDMI OUT1 when using Copy Mode.

4. After changing EDID settings, it may be necessary to restart the source device and/or the extender system for the changes to take effect.
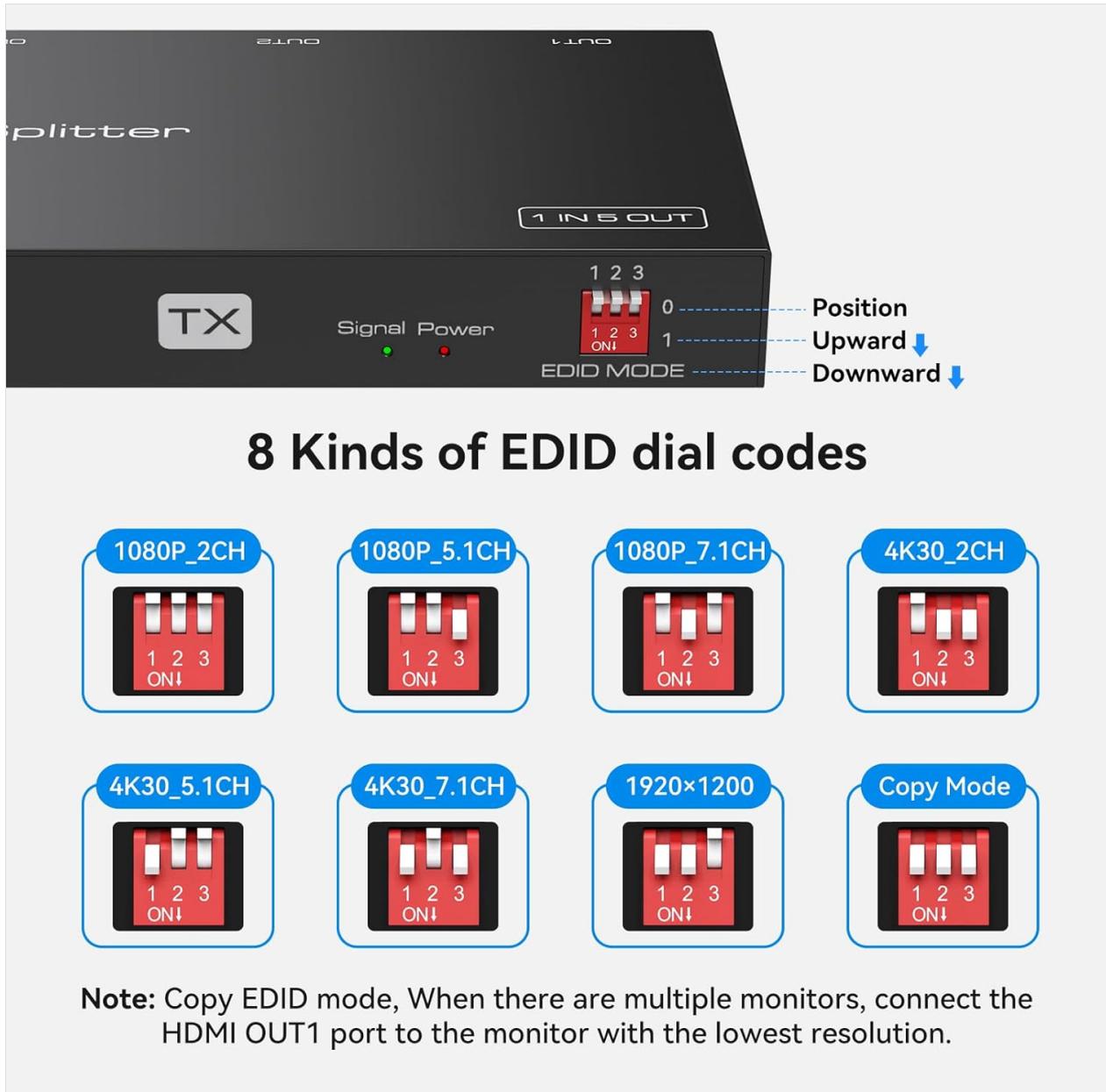

Image: EDID dial code settings, illustrating various resolution and audio configurations (e.g., 4K30_2CH, 1080P_5.1CH) and the corresponding switch positions (up/down) for switches 1, 2, and 3. Also shows the recommended practice for Copy Mode.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block ventilation openings.
- **Cable Management:** Keep cables organized and free from kinks or excessive bending to prevent signal degradation.
- **Power Supply:** Only use the provided DC12V power adapters. Using unauthorized power supplies may damage the device.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No picture on display.	- Loose cable connections. - Incorrect EDID setting. - Power issue. - Incompatible resolution. - Poor quality Cat cable.	- Check all HDMI and Cat cables for secure connections. - Verify EDID settings match display capabilities. Try "Copy Mode" or a lower resolution. - Ensure all power adapters are connected and devices are powered on. - Adjust source resolution to match display. - Ensure Cat6/7 cable is used and wired to 568B standard.
Flickering or unstable picture.	- Long or low-quality Cat cable. - Interference. - Power fluctuations.	- Use high-quality Cat6/7 cables, especially for longer distances. - Ensure cables are not run near strong electrical interference sources. - Check power connections and consider a surge protector.
No audio.	- Incorrect EDID audio setting. - Audio settings on source/display.	- Adjust EDID settings to a compatible audio format (e.g., 2CH). - Check audio output settings on your source device and input settings on your display.

7. SPECIFICATIONS

Feature	Detail
Model Number	202503220002
Input Ports	1x HDMI IN
Output Ports	1x HDMI OUT (Loop), 4x RJ45 OUT
Max Resolution	4K@30Hz, 1080p, 3D
HDMI Version	HDMI 1.4
Transmission Rate	4.95Gbps
Transmission Distance (Cat Cable)	Up to 50 meters (165 feet) over Cat5e/6/7
Transmission Distance (HDMI Loop Out)	Up to 10 meters with standard HDMI cable
Supported Audio Formats	DTS-HD, LPCM7.1, DTS, DSD

Feature	Detail
Power Supply	DC12V (5 adapters included)
Item Weight	14.1 ounces (Transmitter + Receivers)
Package Dimensions	10.24 x 3.15 x 0.87 inches

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided with your purchase documentation or visit the official VEDINDUST website. Keep your purchase receipt for warranty claims.