



HDEX60 Product Manual

## HDMI Extender Over Cat5e/6 Cable with IR and HDMI Loop-Out



### Safety Instructions

**For optimum performance and safety, please read these instructions carefully before use and keep this manual for future reference. Please have the part number, serial number, and invoice available when requesting support.**

- To prevent electric shock, please ensure that all apparatus is properly grounded.
- Place the device in a well-ventilated area, do not block any ventilation openings.
- Do not expose this apparatus to rain or place it near water. Any liquid that goes into the apparatus may cause a failure, fire, or electric shock.
- Do not place the device on an uneven or unstable surface. The device may fall resulting in a malfunction.
- Never insert anything metallic into the open parts of this apparatus. This may cause a danger of electric shock.
- If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.

### Introduction

The HDEX60 by Vanco extends 1080p high-definition video, audio, IR, and power up to 196ft (60m). Power over Ethernet (PoE) technology transmits power over Cat5e/6 cabling to either the transmitter or receiver unit without the need for a power supply. No EDID or EQ changes are necessary as the units automatically adjust with dynamic EDID management. HDMI loop-out is built into the transmitter for connecting additional local displays, AVR, or other system components. IR pass-through also allows for source control from the display location.

### Product Features

- 196ft (60m) transmission distance over a single Cat5e/6 cable
- Power over Ethernet (PoE) provides power to either unit
- HDMI loop-out on the transmitter splits or cascades signals for additional components
- IR pass-through from the receiver to the transmitter with provided IR cables
- Supports 1080p @ 60Hz resolutions
- Compatible with Dolby, DTS, and PCM audio formats
- Dynamic EDID management
- HDCP compliant
- Includes DC 5V/1A power supply and adapter

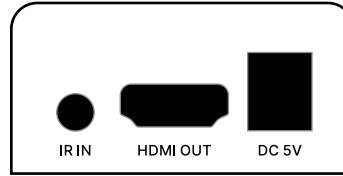
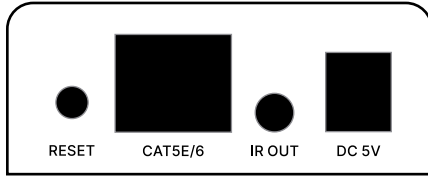
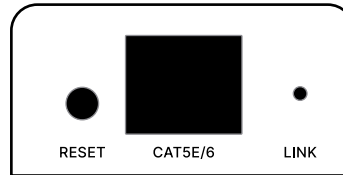
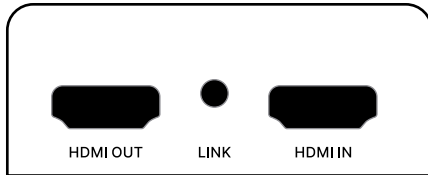
## Package Contents

- HDEX60 (TX & RX)
- (1) IR blaster (TX)
- (1) IR receiver (RX)
- (1) DC 5V/1A power supply and adapter
- Mounting hardware
- Quick start guide

## Product Specifications

<b>Signal Input</b>	HDMI signal
<b>Input Video Signal</b>	0.5-1.0 volts / p-p
<b>Output Video</b>	HDMI signal
<b>DTV/HDTV</b>	480i / 480p / 576i / 576p / 720p / 1080i / 1080p
<b>Cat5e/6 Cable</b>	60m@1080p
<b>Vertical Frequency Range</b>	50 / 60Hz
<b>Interlaced Resolutions</b>	480i / 576i / 1080i (50&60Hz)
<b>Progressive Resolutions</b>	480p / 576p / 720p / 1080p (50&60Hz)
<b>Operating Temperature</b>	0°C to 70°C
<b>Operating Humidity</b>	10% to 85% RH (no condensation)
<b>Storage Temperature</b>	-10°C to +80°C
<b>Storage Humidity</b>	5% to 90% RH (no condensation)
<b>Dimensions</b>	Transmitter: 3.2" x 2.45" x 0.9" (81.5mm x 62mm x 24mm) Receiver: 3.3" x 1.94" x 0.95" (82mm x 49.5mm x 24.6mm)
<b>Weight (combined)</b>	8.5 oz (.242 kg)
<b>Power Supply</b>	5V/1A DC
<b>Power Consumption(Max)</b>	5W
<b>Extender Unit Cert</b>	FCC, CE, RoHS
<b>Power Supply Cert</b>	FCC, CE, RoHS

## Panel Descriptions



### Transmitting Unit (TX)

- HDMI Out: HDMI loop-out for additional components
- LINK: LED light for signal status of extender
- HDMI IN: Connects to a HDMI source
- RESET: Resets connection
- Cat5e/6: Connect a well terminated Cat5e/6 cable, direct cable runs are strongly recommended with no coupling points or patch panels
- IR OUT: Connect provided IR Blaster (TX) for control of source side device
- DC 5V: Connect the included power supply (product includes PoE - connect power to only one unit)

### Receiving Unit (RX)

- RESET: Resets receiver equalization
- Cat5e/6: Connect a well terminated Cat5e/6 cable, direct cable runs are cabling strongly recommended with no coupling points or patch panels
- LINK: LED light for signal status of extender
- IR IN: Connect provided IR Receiver (RX) to receive IR commands from the display side
- HDMI OUT: Connects to an HDMI display
- DC 5V: Connect the included power supply (product includes PoE - connect power to only one unit)

## Connection Diagram

1. Connect a source such as a Blu-Ray player, video game console, receiver, etc. to the HDMI input on the TX unit.
2. Connect a display such as an HDTV or HD projector to the HDMI output on the RX unit.
3. Connect a single Cat5e/6 cable to the UTP output of the TX unit and the other end to the UTP input of the RX unit.
4. OPTIONAL – Connect an HDMI display, AVR, or other component to the HDMI loop-out port on the TX unit.
5. For power, plug in the provided DC 5V power supply to either the TX or RX unit.
6. Power on each device in the same sequence.



## Limited Warranty

With the exceptions noted in the next paragraph, Vanco warrants to the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of 2 years from the date of purchase. Should this product, in Vanco's opinion, prove defective within this warranty period, Vanco, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of Vanco. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into Vanco products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to Vanco. A surge protector, power conditioner unit, or an uninterruptible power supply must be installed in the electrical circuit to protect against power surges.

If repairs are needed during the warranty period the purchaser will be required to provide a sales receipt/sales invoice or other acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding warranty repair or replacement.

## Liability Statement

Every effort has been made to ensure that this product is free of defects. The manufacturer of this product cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user and installer of the hardware to check that it is suitable for their requirements and that it is installed correctly. All rights are reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

Manufacturer reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way. For additional information, please visit [www.vanco1.com](http://www.vanco1.com).

## Technical Support

**Please read this product manual prior to calling or installing this unit, since it will familiarize you with the capabilities of this product and its proper installation.**

In case of problems, please contact Vanco Technical Support by dialing 1-800-626-6445. You can also email technical support issues to [techsupport@vanco1.com](mailto:techsupport@vanco1.com). When calling, please have the part number, serial number (affixed to the bottom of the unit) and invoice available for reference during the call.

All active electronic products are 100% inspected and tested to insure highest product quality and trouble-free installation and operation. The testing process utilizes the types of high-definition sources and displays typically installed for entertainment and home theater applications.

### Vanco Tech Support

Phone: 1-800-626-6445

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Web: [www.vanco1.com](http://www.vanco1.com)

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