



HOME
THEATER



HDMI® Extender
Over 2X Category
5e Cables

Vanco Part Number:
280502

Technical Support

www.vanco1.com • info@vanco1.com • 800-626-6445

DEAR CUSTOMER

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

This product is 100% inspected and tested in the United States to verify HDMI performance parameters.

WARNING

1. Do not expose this unit to water, moisture, or excessive humidity.
2. Do not install or place this unit in a built-in cabinet, or other confined space without adequate ventilation.
3. To prevent risk of electrical shock or fire hazard, due to overheating, do not obstruct unit's ventilation openings.
4. Do not install near any source of heat, including other units that may produce heat.
5. Do not place unit near flames.
6. Only clean unit with a dry cloth.
7. Unplug unit during lightening storms, or when not used for an extended period of time. A surge protector is strongly recommended.
8. Protect the power cord from being walked on or pinched, particularly at the plugs.
9. Use unit only with accessories specified by the manufacturer.
10. Refer all servicing to qualified personnel.

CAUTION

HDMI is a very complex technology requiring continuous authentication of the signal and the same video resolution and audio settings on all electronic equipment in the system. When there are multiple sources and displays, the video resolution and audio setting on all connected units must be adjusted to correspond with that of the display having the lowest video and audio capability.

FEATURES

Vanco HDMI Extender over dual category cable (280502) is an active short range dual cable extender set capable of transmitting full 1080p HD video and HD audio together, and achieves this through the HDMI signal over dual Cat5e/6 of up to 98 ft under ideal conditions. Also features HDCP compliancy to ensure source and display compatibility. For a simple source to display HDMI signal extension, the 280502 is a great solution.

Benefits for using 280502:

1. The length of HDMI cable is fixed and unchangeable after it is produced. Because the HDMI connector can only be soldered or terminated by professional worker in factory, the users can not reduce or increase by themselves. However Cat5e/Cat6 cables are available everywhere and be processed easily by the user or installer.
2. The 280502 transmission distance for 1080P reaches 30 meters (98.4 ft), and 60 meters (196.9 ft) for 1080i.
3. Offers solutions for digital entertainment center, HDTV retail and show site, HDTV, STB, DVD and Projector factory, noise, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.

HDMI® Extender Over 2X Category 5e Cables

Part # 280502

- Allows HDMI audio/video signals to be transmitted using two Cat5e or Cat6 cables
- Transmission Range: Extends 1080p resolution up to 30 meters (98 ft); Extends 1080i resolution up to 50 meters (164 ft); Extends 720p resolution up to 60 meters (196 ft)
- Supports High Definition Resolution 1080p
- Supports computer resolutions up to 1920x1200 (WUXGA), 12-bit color depth
- H.D.C.P. (High-Bandwidth Digital Content Protection) Compliant
- Not recommended for cascading purposes or to work with any other component, to be used as a source to display extender only
- 5V DC, UL Listed Power Supply
- Dimensions: 2" W x 1.88" H x 3.25" D

SPECIFICATIONS

Operating Temperature Range.....	-5 to +35°C (-41 to 23 °F)
Operating Humidity Range	5 to 90 % RH (no condensation)
Input Video Signal	0.5-1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Video Format Supported.....	DTV/HDTV;1080p/1080i/720p/576p/480p/576i/480i
Output Video	HDMI 1.3a + HDCP 1.2
Maximum Transmission Distance.....	1080p: 30m; 1080i: 60m
Power Supply	5VDC
Power Consumption	120 mW (max.)
Dimensions:	2" W x 1.88" H x 3.25" D
Mass (Main unit)	0.26 kg (transmitter & receiver)

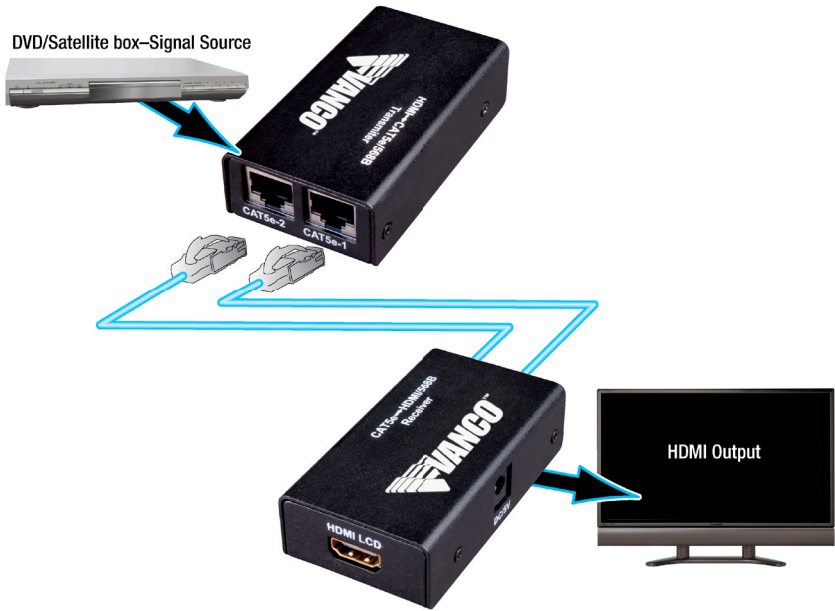
Specifications are subject to change without notice. Mass and dimensions are approximate.

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- 1 Vanco 280502 TRANSMITTER balun
- 1 Vanco 280502 RECEIVER balun
- 5V DC Power Supply
- Product Manual

CONNECT AND OPERATE



1. Connect 1 source such as a Blu-Ray Player, game console, A/V Receiver, Cable or Satellite Receiver, etc. to the HDMI input on the transmitter balun.
2. Connect 1 display such as an HDTV or HD Projector to the HDMI output on the receiver balun.
3. Connect dual Category 5e/6 cables up to 98 ft (30m) to both transmitter and receiver baluns. (Ensure Category cables are terminated correctly)
4. For power, plug in the source first, followed by the Vanco Extender set (5V DC power supply included), followed by the output connected.
5. Power on each device in the same sequence

At this point the display connected should display the source signal connected to the extender set. If no signal is being displayed, connect shorter Cat5e/6 cables (less than 15 ft). If a display is still having difficulty receiving a signal, access the display's menu and adjust the resolution (lowest to highest until signal is displayed). A 24 Hz vertical refresh rate may work better than 60 Hz or higher.

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.

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 one year 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 a 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 or other acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding warranty repair or replacement.

TECHNICAL SUPPORT

In case of problems, please contact Vanco Technical Support by e-mail at support@Vanco1.com or call 1-800-626-6445 between the hours of 8am and 5pm central US time zone on Monday through Friday.

When calling, please have the Model Number, Serial Number (affixed to the bottom of the unit) and Invoice available for reference during the call.

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

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.

For additional information, such as helpful installation videos, glossary of terms, etc. please visit www.vanco1.com

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