

TIMED

HDMLIN

FCCE

<u>O SMULLE</u>

ISP

HDMI OUT Power

56



Vanco Part Number: 280571

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.
- Do not install or place this unit in a built-in cabinet, or other confined space without adequate ventilation.
- To prevent risk of electrical shock or fire hazard, due to overheating, do not obstruct unit's ventilation openings.
- 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.
- 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.

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#### FEATURES

The Vanco HDMI Clock Resynthesizer (part # 280571) amplifies HDMI extension transmission over long cable distances and makes multiple layer cascading of HDMI product possible. For use in applications where there are issues with compatibility due to clock stretching issues, the 280571 receives the HDMI signals and resynchronizes, conditions, and equalizes the signals with state of the art jitter cleaning technology. This results in the improvement of the transmission distance and signal integrity. The 280571 provides high bandwidth HDMI systems a cost effective way to overcome jitter issues as well as save time from troubleshooting and having to replace equipment.

#### HDMI® Clock Re-synthesizer/Conditioner Part # 280571

- Addresses issues with clock stretching/timing and multiple layer cascading
- Amplifies HDMI signals and extension over long cable distances
- Resynchronizes, conditions, and equalizes HDMI signals
- Built-in super jitter cleaning mechanism
- HDMI 1.4a compliant
- Supports Resolutions up to 1080p
- Perfectly integrated with other HDMI over UTP products
- Power Supply: 5V DC
- Dimensions: 2.2" W x 1" H x 1.8" D

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## SPECIFICATIONS

Role of usage	HDMI to HDMI Repeater with Clock Cleaning
HDMI standards	1.4a
Input Video bandwidth	3Gbps per data channel
Video support deep color	480i/480p/576i/576p/720p/1080i/1080p/2160p
Audio support	. Bypass
ESD protection& ±12kV [contact discharge][2] Core chipset — ±2kV	. [1] Human body model — ±19kV [air-gap discharge]
PCB stack-up 100W; single 50W]	. 4-layer board [impedance control — differential
CEC Channel	Bypass
Input	1x HDMI
Output	1x HDMI
HDMI connector	Type A [19-pin female]

#### MECHANICAL SPECS

Housing	. Metal enclosure
Fixedness	. Wall-mounting case with screws
Power supply	. 5V 2A DC
Power consumption	. 5 Watts [max]
Operation temperature	. 32~104 °F
Storage temperature	4 ~140 °F
Relative humidity	. 20~90 % RH (no condensation)

## 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) 280571 HDMI Clock Resynthesizer
- (1) DC 5V 2A power supply
- (1) User Manual

## PANEL DESCRIPTIONS

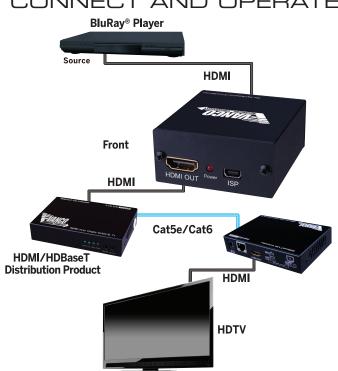




- 1. 5V DC power jack
- 2. HDMI IN: Connect to a HDMI source with a HDMI male-male cable
- 3. HDMI OUT: Connect to a HDMI display with an HDMI male-male cable
- 4. LED signal: Power Supply Indicator
- 5. Mini USB: Utilized for firmware updates

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# CONNECT AND OPERATE

- 1. Connect a source such as a Blu-Ray Player, game console, A/V Receiver, Cable or Satellite Receiver, etc. to the HDMI input on the unit.
- 2. Connect a display such as an HDTV or HD Projector to the HDMI output on the unit.
- 3. For power, plug in the unit with the included power supply.

\*NOTE: Unit must be connected to source if there are more components involved in the setup.

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## SAFETY AND NOTICE

The 280571 has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the 280571 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit.
- · Always unplug the power to the device before cleaning.

## 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 two 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.

#### TECHNICAL SUPPORT

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. 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 vanco1.com

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# Vanco® International

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