KRAMER



USER MANUAL

MODEL:

PT-101UHD

HDMI Repeater

P/N: 2900-300492 Rev 3



PT-101UHD Quick Start Guide

This guide helps you install and use your PT-101UHD for the first time. For more detailed information, go to http://www.kramerav.com/manual/PT-101UHD to download the latest manual or scan the QR code on the left.

Step 1: Check what's in the box

✓ 1 Power supply (5V DC)

✓ 1 Quick start guide

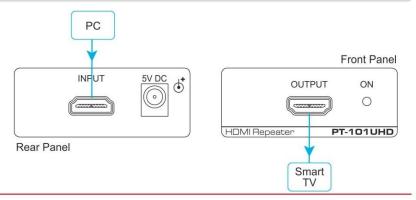
Step 2: Install the PT-101UHD

To mount the **PT-101UHD** in a rack, use an **RK-4PT** rack adapter. Alternatively, attach the rubber feet to the underside of the **PT-101UHD** and place it on a table. A Kramer Pico TOOLS TM can also be mounted on a desk top, wall or similar area. Fasten a bracket on each side of the Pico TOOLS using the two M3x8 screws (supplied). Use the flat-head screws (supplied) to fix the Pico TOOLS to the mounting surface or enable it to slide in place.

Step 3: Connect the input and output

Always switch off the power to each device before connecting it to your **PT-101UHD**.

For best results, always use Kramer high-performance cables to connect your AV equipment to the **PT-101UHD**.



Step 4: Connect the power



Connect the 5V DC power adapter to the PT-101UHD and plug the adapter into the mains electricity.

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PT-101UHD - Contents

1 Introduction

Welcome to Kramer Electronics! Since 1981, Kramer Electronics has been providing a world of unique, creative, and affordable solutions to the vast range of problems that confront video, audio, presentation, and broadcasting professionals on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better!

Our 1,000-plus different models now appear in 14 groups that are clearly defined by function: GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Routers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Range Extenders and Repeaters; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity; GROUP 10: Accessories and Rack Adapters; GROUP 11: Sierra Video Products; GROUP 12: Digital Signage; GROUP 13: Audio; and GROUP 14: Collaboration.

Congratulations on purchasing your Kramer **PT-101UHD** *HDMI Repeater*. This product is ideal for:

- Home theater, presentation and multimedia applications
- Rental and staging
- Education and corporate

2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this user manual



Go to www.kramerav.com/downloads/PT-101UHD to check for up-to-date user manuals, application programs, and to check if firmware upgrades are available (where appropriate).

2.1 Achieving the Best Performance

To achieve the best performance:

- Use only good quality connection cables (we recommend Kramer highperformance, high-resolution cables) to avoid interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- Do not secure the cables in tight bundles or roll the slack into tight coils
- Avoid interference from neighbouring electrical appliances that may adversely influence signal quality
- Position your PT-101UHD away from moisture, excessive sunlight and dust



This equipment is to be used only inside a building. It may only be connected to other equipment that is installed inside a building.

2.2 Safety Instructions



Caution: There are no operator serviceable parts inside the unit

Warning: Use only the Kramer Electronics power supply that is

provided with the unit

Warning: Disconnect the power and unplug the unit from the wall

before installing

2.3 Recycling Kramer Products

The Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC aims to reduce the amount of WEEE sent for disposal to landfill or incineration by requiring it to be collected and recycled. To comply with the WEEE Directive, Kramer Electronics has made arrangements with the European Advanced Recycling Network (EARN) and will cover any costs of treatment, recycling and recovery of waste Kramer Electronics branded equipment on arrival at the EARN facility. For details of Kramer's recycling arrangements in your particular country go to our recycling pages at http://www.kramerelectronics.com/support/recycling/.

3 Overview

The **PT-101UHD** is a high-performance HDMI repeater and distance extender.

In particular, the **PT-101UHD** features:

- Range extension up to 20m(66ft) for 4K@30Hz and for 4K@60Hz (4:2:0)
- A maximum data rate of 10.2Gbps (3.4Gbps per data channel)
- HDCP compliance
- Re-clocking and equalization
- HDMI power on the output follows the input, (that is, there is no power on the output when there is no active power on the input)
- Transparent HDMI 2.x and HDCP 2.2 support
- A Pico TOOLS™ enclosure

4 Defining the PT-101UHD HDMI Repeater

Figure 1 defines the front and rear panels of the PT-101UHD HDMI Repeater.

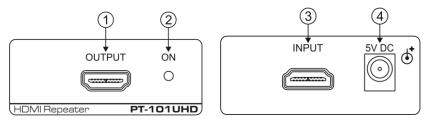


Figure 1: PT-101UHD Front and Rear Panel

#	Feature	Function
1	OUTPUT HDMI Connector	Connect to the HDMI acceptor, (for example, a smart TV)
2	ONLED	Lights blue when power is connected. Lights red when only the HDMI input signal is present. Lights purple when the power and HDMI signal are connected
3	INPUT HDMI Connector	Connect to the HDMI source, (for example, a PC)
4	5V DC Connector	Connect to the supplied power adapter

5 Connecting the PT-101UHD



Always switch off the power to each device before connecting it to your **PT-101UHD**. After connecting your **PT-101UHD**, connect its power and then switch on the power to each device.

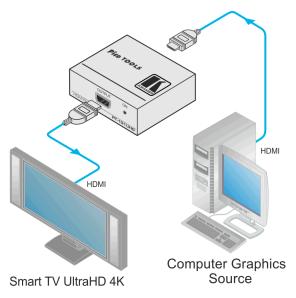


Figure 2: Connecting the PT-101UHD HDMI Repeater

To connect the PT-101UHD as illustrated in the example in Figure 2:

- Connect the HDMI source (for example, a PC) to the INPUT HDMI connector.
- Connect the OUTPUT HDMI connector to the HDMI acceptor (for example, a smart TV).
- Connect the 5V DC power adapter to the power socket and connect the adapter to the mains electricity, (not illustrated in <u>Figure 2</u>).

6 Technical Specifications

INPUT:	1 HDMI on an HDMI connector	
OUTPUT:	1 HDMI on an HDMI connector	
MAX. DATA RATE:	Supports up to 10.2Gbps (3.4Gbps per graphic channel). Supports up to 4K @60Hz (4:2:0) 36-bit Deep Color	
COMPLIANCE WITH HDMI STANDARD:	HDMI 2.0 HDCP 2.2	
INDICATOR LED:	ON	
POWER SOURCE:	5V DC, 230mA	
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F)	
STORAGE TEMPERATURE:	-40° to +70°C (-40° to 158°F)	
HUMIDITY:	10% to 90%, RHL non-condensing	
COOLING:	Convection	
ENCLOSURE TYPE:	Aluminium	
RACK MOUNT:	With optional adapter	
FURNITURE MOUNT:	With included rubber feet	
DIMENSIONS:	6.22cm x 5.18cm x 2.44cm (2.45" x 2.04" x 0.96") W, D, H	
WEIGHT:	0.1kg (0.22lbs) approx.	
SHIPPING DIMENSIONS:	15.7cm x 12cm x 8.7cm (6.2" x 4.7" x 3.4") W, D, H.	
SHIPPING WEIGHT:	0.5kg (1.1lbs) approx.	
VIBRATION:	ISTA 1A in carton (International Safe Transit Association)	
REGULATORY COMPLIANCE:	CE	
ENVIRONMENTAL REGULATORY COMPLIANCE:	Complies with appropriate requirements of RoHs and WEEE	
INCLUDED ACCESSORIES:	Power supply	
OPTIONS:	RK-4PT 19" rack adapter	
WARRANTY:	7 years parts and labor	
Specifications are subject to change without notice at http://www.kramerelectronics.com		

LIMITED WARRANTY

The warranty obligations of Kramer Electronics for this product are limited to the terms set forth below:

What is Covered

This limited warranty covers defects in materials and workmanship in this product.

What is Not Covered

This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Kramer Electronics to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover cartons, equipment enclosures, cables or accessories used in conjunction with this product.

Without limiting any other exclusion herein, Kramer Electronics does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

How Long Does this Coverage Last

Seven years as of this printing; please check our Web site for the most current and accurate warranty information.

Who is Covered

Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

What Kramer Electronics will do

Kramer Electronics will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:

- Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition. Kramer Electronics will also pay the shipping costs necessary to return this product once the repair is complete.
- Replace this product with a direct replacement or with a similar product deemed by Kramer Electronics to perform substantially the same function as the original product.
- Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought under this limited warranty.

What Kramer Electronics will not do Under This Limited Warranty

If this product is returned to Kramer Electronics or the authorized dealer from which it was purchased or any other party authorized to repair Kramer Electronics products, this product must be insured during shipment, with the insurance and shipping charges prepaid by you. If this product is returned uninsured, you assume all risks of loss or damage during shipment. Kramer Electronics will not be responsible for any costs related to the removal or re-installation of this product from or into any installation. Kramer Electronics will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

How to Obtain a Remedy under this Limited Warranty

To obtain a remedy under this limited warranty, you must contact either the authorized Kramer Electronics reseller from whom you purchased this product or the Kramer Electronics office nearest you. For a list of authorized Kramer Electronics resellers and/or Kramer Electronics authorized service providers, please visit our web site at www.kramerelectronics.com or contact the Kramer Electronics office nearest you.

In order to pursue any remedy under this limited warranty, you must possess an original, dated receipt as proof of purchase from an authorized Kramer Electronics reseller. If this product is returned under this limited warranty, a return authorization number, obtained from Kramer Electronics, will be required. You may also be directed to an authorized reseller or a person authorized by Kramer Electronics to repair the product.

If it is decided that this product should be returned directly to Kramer Electronics, this product should be properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization number will be refused.

Limitation on Liability

THE MAXIMUM LIABILITY OF KRAMER ELECTRONICS UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

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IF ANY PRODUCT TO WHICH THIS LIMITED WARRANTY APPLIES IS A "CONSUMER PRODUCT" UNDER THE MAGNUSON-MOSS WARRANTY ACT (15 U.S.C.A. §2301, ET SEQ.) OR OTHER APPICABLE LAW, THE FOREGOING DISCLAIMER OF IMPLIED WARRANTIES SHALL NOT APPLY TO YOU, AND ALL IMPLIED WARRANTIES ON THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE PARTICULAR PURPOSE, SHALL APPLY AS PROVIDED UNDER APPLICABLE LAW.

Other Conditions

This limited warranty gives you specific legal rights, and you may have other rights which vary from country to country or state to

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P/N







SAFETY WARNING

Disconnect the unit from the power supply before opening and servicing

For the latest information on our products and a list of Kramer distributors, visit our Web site to find updates to this user manual.

We welcome your questions, comments, and feedback.

www.kramerAV.com info@kramerel.com