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

- PT-101UHD HDMI Repeater
- 4 Rubber feet
- Bracket installation kit
- 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™ 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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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 high-performance, 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/.
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](image)

<table>
<thead>
<tr>
<th>#</th>
<th>Feature</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>OUTPUT</strong> HDMI Connector</td>
<td>Connect to the HDMI acceptor, (for example, a smart TV)</td>
</tr>
<tr>
<td>2</td>
<td><strong>ON</strong> LED</td>
<td>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</td>
</tr>
<tr>
<td>3</td>
<td><strong>INPUT</strong> HDMI Connector</td>
<td>Connect to the HDMI source, (for example, a PC)</td>
</tr>
<tr>
<td>4</td>
<td><strong>5V DC</strong> Connector</td>
<td>Connect to the supplied power adapter</td>
</tr>
</tbody>
</table>
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:

1. Connect the HDMI source (for example, a PC) to the INPUT HDMI connector.

2. Connect the OUTPUT HDMI connector to the HDMI acceptor (for example, a smart TV).

3. Connect the 5V DC power adapter to the power socket and connect the adapter to the mains electricity, (not illustrated in Figure 2).
## Technical Specifications

<table>
<thead>
<tr>
<th>INPUT:</th>
<th>1 HDMI on an HDMI connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTPUT:</td>
<td>1 HDMI on an HDMI connector</td>
</tr>
<tr>
<td>MAX. DATA RATE:</td>
<td>Supports up to 10.2Gbps (3.4Gbps per graphic channel). Supports up to 4K @60Hz (4:2:0) 36-bit Deep Color</td>
</tr>
</tbody>
</table>
| 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](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 misuse or alteration of this product, any repairs attempted by anyone other than 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.

Non-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:
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2. Replace this product with a direct replacement with a similar product deemed by Kramer Electronics to perform substantially the same function as the original product.
3. 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.

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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 of Liability
THE MAXIMUM LIABILITY OF KRAMER ELECTRONICS UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE OF THE PRODUCT. NO EVENT SHALL KRAMER ELECTRONICS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT 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 LIABILITY OR LIMITATION OF SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

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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 state.

This limited warranty is void if (i) the label bearing the serial number of this product has been removed or defaced, (ii) the product is not purchased from an authorized Kramer Electronics reseller or (iii) this product is not purchased from an authorized Kramer Electronics reseller. If you are unsure whether a reseller is an authorized Kramer Electronics reseller, please visit our Web site at www.kramerelectronics.com or contact the Kramer Electronics office from the list at the end of this document.

Your rights under this limited warranty are not diminished if you do not complete and return the product registration form or complete and submit the online product registration form. Kramer Electronics thanks you for purchasing a Kramer Electronics product. We hope it will give you years of satisfaction.
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.

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