PT-4iREX Quick Start Guide

This guide helps you install and use your product for the first time. For more detailed information, go to http://www.kramerelectronics.com/support/product_downloads.asp to download the latest manual or scan the QR code on the left.

Step 1: Check what’s in the box

- PT-4iREX IR Repeater
- 1 Power supply (12V DC)
- 4 Rubber feet
- 1 Quick Start sheet

Save the original box and packaging materials in case you need to return your PT-4iREX for service.

Step 2: Install the PT-4iREX

Attach the rubber feet and place on a table or mount the PT-4iREX in a rack (using an optional RK-4PT rack mount).

Step 3: Connect the inputs and outputs

Always switch off the power on each device before connecting it to your PT-4iREX.

Always use Kramer high-performance cables for connecting AV equipment to the PT-4iREX.

Step 4: Connect the power

Connect the 12V DC power adapter to the PT-4iREX and plug the adapter into the mains electricity.
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 11 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 and GROUP 11: Sierra Products.

Congratulations on purchasing your Kramer PT-4iREX IR Repeater, which is ideal for the following typical applications:

- High-quality home theater installations
- Studios, airports, offices and hospitals
- Security and military applications
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

• Use Kramer high-performance, high-resolution cables

Go to http://www.kramerelectronics.com 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 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 neighboring electrical appliances that may adversely influence signal quality

• Position your Kramer PT-4iREX 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.

Caution: No operator serviceable parts inside the unit

Warning: Use only the Kramer Electronics input power wall adapter that is provided with the unit

Warning: Disconnect the power and unplug the unit from the wall before installing
2.2 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-4 iREX** is an IR repeater that lets you control up to four machines via their remote control transmitters from a distance.

For example, a video player, DVD player, air conditioning system, and any other remote controlled machine.

In particular, the **PT-4 iREX**:  
- Lets you operate machines that are stacked away in closets, cabinets, and even other rooms  
- Can operate at a distance of approximately 75 meters by using the IR emitter extension cables between the controlled machine and the **PT-4 iREX**  
- Has an IR sensor  
- Has an external IR receiver (model C-A35M/IRR-03) that lets you control the **PT-4 iREX** from a distance of approximately 30 meters  
- Is 12V DC fed
3.1 Defining the PT-4iREX IR Repeater

This section defines the PT-4iREX.

Figure 1: PT-4iREX IR Repeater

<table>
<thead>
<tr>
<th>#</th>
<th>Feature</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OUT 3.5mm Mini Connector</td>
<td>Connect to the IR emitter cable (from 1 to 4)</td>
</tr>
<tr>
<td>2</td>
<td>12V DC</td>
<td>+12V DC connector for powering the unit</td>
</tr>
<tr>
<td>3</td>
<td>EXT. 3.5mm Mini Connector</td>
<td>Connect to an external remote IR receiver unit for controlling the machine via an IR remote controller (instead of using the front panel IR receiver) Optional. Can be used instead of the front panel (built-in) IR IN receiver to remotely control the unit. Refer to the External Remote IR Receiver C-A35M/IRR-03 C-A35M/IRR-50 Installation Instructions for details</td>
</tr>
<tr>
<td>4</td>
<td>IR IN</td>
<td>IR sensor red glass window</td>
</tr>
<tr>
<td>5</td>
<td>SIGNAL LED</td>
<td>Lights when an IR link is established</td>
</tr>
<tr>
<td>6</td>
<td>ON LED</td>
<td>Lights when the unit is powered</td>
</tr>
</tbody>
</table>
4 Connecting the PT-4iREX

Always switch off the power to each device before connecting it to your PT-4iREX. After connecting your PT-4iREX, connect its power and then switch on the power to each device.

To connect the PT-4 iREX IR Repeater, as illustrated in the example in Figure 3, do the following:

1. Connect the OUT (up to four IR receivers) 3.5mm mini connector (from 1 to 4) to the following IR receivers via the IR emitter cable (see Figure 2):
   Stick the IR emitter to the IR receiver window (usually located on the front panel of the video player).
   - OUT 1 to a DVD player
   - OUT 2 to a video player
   - OUT 3 to an amplifier
   - OUT 4 to a plasma display

2. Connect the 12V DC power adapter to the power socket and connect the adapter to the mains electricity.

To operate any of the connected machines, use a remote control (the machine’s original remote control or a universal remote control) pointed to the IR Repeater (or the external IR remote receiver, model C-A35M/IRR-03) that is located at a place of your convenience. The IR signal from the remote control is transmitted from the PT-4 iREX, via an IR emitter cable, to the appropriate machine.
An external Remote IR receiver can be connected (once the Remote IR Receiver cable is connected, the built-in IR receiver is disabled) to the EXT. connector, letting you control the **PT-4 iREX** from a distance (with model C-A35M/IRR-03) of approximately 30 meters.
## Technical Specifications

<table>
<thead>
<tr>
<th><strong>INPUT:</strong></th>
<th>1 IR receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OUTPUTS:</strong></td>
<td>4 IR emitters on 3.5mm mini connectors</td>
</tr>
<tr>
<td><strong>IR OPERATING FREQUENCY:</strong></td>
<td>38kHz +/- 10%</td>
</tr>
<tr>
<td><strong>EFFECTIVE OFF-AXIS ANGLE:</strong></td>
<td>120° max.</td>
</tr>
<tr>
<td><strong>POWER SOURCE:</strong></td>
<td>12V DC, 95mA</td>
</tr>
<tr>
<td><strong>OPERATING TEMPERATURE:</strong></td>
<td>0° to +40°C (32° to 104°F)</td>
</tr>
<tr>
<td><strong>STORAGE TEMPERATURE:</strong></td>
<td>-40° to +70°C (-40° to 158°F)</td>
</tr>
<tr>
<td><strong>HUMIDITY:</strong></td>
<td>10% to 90%, RHL non-condensing</td>
</tr>
<tr>
<td><strong>DIMENSIONS:</strong></td>
<td>6.22cm x 5.24cm x 2.44cm (2.45” x 2.06” x 0.96”) W, D, H</td>
</tr>
<tr>
<td><strong>WEIGHT:</strong></td>
<td>0.15kg. (0.55lbs) approx.</td>
</tr>
<tr>
<td><strong>ACCESSORIES:</strong></td>
<td>Power supply, 3.5mm to IR Emitter Control Cable (C-A35/IRE-10), 0.9m External Remote IR receiver (C-A35M/IRR-03)</td>
</tr>
<tr>
<td><strong>OPTIONS:</strong></td>
<td>15m and 20m IR Emitter Extension Cables, 15m External IR receiver C-A35M/IRR-50, 15m Extension cable C-A35M/A35F-50</td>
</tr>
</tbody>
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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 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:

1. 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.

2. 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.

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.

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 authorized 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.

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Exculsive Remedy

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We welcome your questions, comments, and feedback.
Web site: www.kamerelectronics.com
E-mail: info@kramerel.com

SAFETY WARNING
Disconnect the unit from the power supply before opening and servicing.