

KRAMER ELECTRONICS LTD.

USER MANUAL

MODEL:

PT-5T/R IR Extender/Repeater

P/N: 2900-300010 Rev 3

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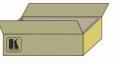
PT-5T, PT-5R Quick Start Guide

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-5T, PT-5R I/R Extender and Repeater 5 IR Emitter cables
- 1 Power supply (5V DC) per unit
- 1 IR Receiver cable

5 IR Emitter cables 4 Rubber feet per unit 1 Quick Start sheet



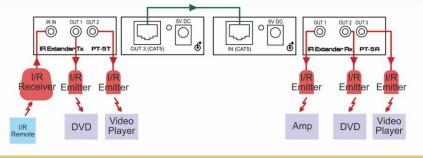
Save the original box and packaging materials in case you need to return your PT-5T, PT-5R for service.

Step 2: Install the PT-5T, PT-5R

Attach the rubber feet and place on a table or mount the **PT-5T, PT-5R** 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-5T, PT-5R.



Always use Kramer high-performance cables for connecting AV equipment to the PT-5T, PT-5R.

Step 4: Connect the power

Connect the 5V DC power adapter to the **PT-5T, PT-5R** and plug the adapter into the mains electricity.



Contents

1	Introduction	1
2	Getting Started	2
2.1	Achieving the Best Performance	2
2.2	Safety Instructions	3
2.3	Recycling Kramer Products	3
3	Overview	4
3.1	Defining the PT-5T/R IR Extender/Repeater	4
4	Connecting and Using the PT-5T/R IR Extender/Repeater	6
4.1	Identifying the IR Receiver and IR Emitters	6
4.2	Connecting the PT-5T/R IR Extender/Repeater	6
4.3	Using the PT-5T/R IR Extender/Repeater	7
5	Technical Specifications	8
Fig	ures	
Figure	e 1: PT-5T IR Extender/Repeater	4
Figure	e 2: PT-5R IR Extender/Repeater	5
Figure	e 3: IR Receiver and Emitter	6
Figure 4: Connecting the PT-5T/R		

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Figure	3: IR	Receiver	and	F	mitter	

Figure 4: Connecting the PT-5T/R

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-5T/R** *IR Extender/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



Go to <u>http://www.kramerelectronics.com/support/product_downloads.asp</u> 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 neighboring electrical appliances that may adversely
 influence signal quality
- Position your Kramer PT-5T/R 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 input power wall adapter 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 <u>http://www.kramerelectronics.com/support/recycling/</u>.

3 Overview

The **PT-5T/R** is an IR transmitter and receiver pair that lets you control up to five devices via their own remote control transmitters from an extended distance over TP (twisted pair) cable.

In particular, the PT-5T/R:

- Lets you operate IR devices that are stacked away in closets, cabinets and even other rooms
- Can operate at a distance of up to 250m meters (820ft) between the transmitter and receiver
- Is 5V DC fed

3.1 Defining the PT-5T/R IR Extender/Repeater

This section defines the PT-5T/R.

Figure 1 defines the front and rear panels of the PT-5T.

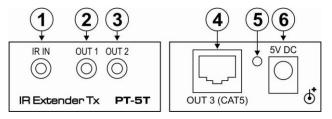


Figure 1: PT-5T IR Extender/Repeater

#	Feature	Function
1	IR IN 3.5mm Mini Jack	Plug in the IR receiver (see Section 4.1)
2	OUT 1 3.5mm Mini Jack	Plug in the first IR emitter (see Section 4.1)
3	OUT 2 3.5mm Mini Jack	Plug in the second IR emitter
4	<i>OUT 3 (CAT5)</i> RJ-45 TP Connector	Connect to the PT-5R using CAT 5 TP cable
5	Power LED	Lights red when the unit receives power
6	5V DC	Connect to the power adapter (only one power adapter is needed, to either the transmitter or the receiver)

Figure 2 defines the front and rear panels of the PT-5R.

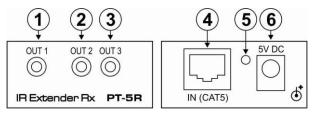


Figure 2: PT-5R IR Extender/Repeater

#	Feature	Function
1	OUT 1 3.5mm Mini Jack	Plug in the third IR emitter (see Section 4.1)
2	OUT 2 3.5mm Mini Jack	Plug in the fourth IR emitter
3	OUT 3 3.5mm Mini Jack	Plug in the fifth IR emitter
4	<i>IN (CAT 5)</i> RJ-45 TP Connector	Connect to the PT-5T using CAT 5 TP cable
5	Power LED	Lights red when the unit receives power
6	5V DC	Connect to the power adapter (only one power adapter is needed, to either the transmitter or the receiver)

4 Connecting and Using the PT-5T/R IR Extender/Repeater

4.1 Identifying the IR Receiver and IR Emitters

The receiver and emitters can be identified by their size and shape. The receiver is large and trapezoidal in shape; the emitters are small and rectangular in shape with a rounded top. Both have a 2m (6.6ft) cable attached terminated with a 3.5mm mini jack.



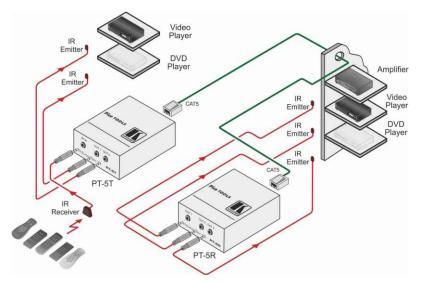
Figure 3: IR Receiver and Emitter

4.2 Connecting the PT-5T/R IR Extender/Repeater

To connect the **PT-5T/R** *IR Extender/Repeater* as illustrated in the example in Figure 4:

- Plug the IR receiver into the IR IN 3.5mm mini jack on the front panel of the PT-5T.
- Plug up to two IR emitters into the OUT 1 and OUT 2 3.5mm mini jacks on the front panel of the PT-5T.
- 3. Mount each of the IR emitters so that each points at and is within range of the relevant media device to be controlled.
- Plug up to three IR emitters into the OUT 1, OUT 2 and OUT 3 3.5mm mini jacks on the front panel of the PT-5R.
- 5. Mount each of the IR emitters so that each points at and is within range of the relevant device to be controlled.

- Connect the PT-5T and the PT-5R together, using TP cable, via the RJ-45 connectors on the rear panel of both devices.
- Connect the power adapter to the 5V DC connector on the rear panel of the PT-5T or the PT-5R and to the mains electricity.



Note: Only one of the devices needs to be connected to a power adapter.

Figure 4: Connecting the PT-5T/R

4.3 Using the PT-5T/R IR Extender/Repeater

Use the remote control specific to the device to operate any of the devices connected via infrared to the **PT-5T** and **PT-5R**. (Use the machine's original remote control or a universal remote control.) The infrared signal from the remote control is transmitted:

- From the PT-5T to the device under control or
- From the PT-5T to the PT-5R via the TP cable, and from there to the device under control

5 Technical Specifications

INPUTS:	PT-5T: 1 IR receiver on a 3.5mm mini jack	PT-5R: 1 RJ-45	
OUTPUTS:	PT-5T: 2 IR emitters on 3.5mm mini jacks, 1 RJ-45	PT-5R: 3 IR emitters on 3.5mm mini jacks	
MAXIMUM OPERATING DISTANCE:	250m (820ft)		
CARRIER FREQUENCY:	36-40kHz		
POWER CONSUMPTION:	5V DC; PT-5T: 7mA, PT-5R: 6mA		
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		
DIMENSIONS:	5.0cm x 6.6cm x 2.3cm (1.97" x 2.6" x 0.91") W, D, H		
WEIGHT:	0.15kg (0.33lbs) approx.		
ACCESSORIES:	Power adapter		
	1 IR Receiver with 2m cable and 3.5mm mini jack		
	5 IR Emitters with 2m cables and 3.5mm mini jacks		
OPTIONS: RK-4PT 19" Rack Adapter			
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.

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- 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.
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