

**IR-PRO**

Professional Infrared Code Capture System



# **IR-PRO**

Operation Guide



## Introduction

The *IR-PRO* is an infrared code capture system that is specifically designed for system integration professionals.

Unlike the capture hardware available in universal “learning” remote controls, the *IR-PRO* incorporates a much more robust and sophisticated circuit design. This, combined with RTI’s proprietary software algorithms, allows the *IR-PRO* to reliably capture almost any infrared code regardless of code format, frequency, output strength, battery condition, alignment position, location of infrared emitter, etc.

Because RTI’s remote control products are sold only through professional installers/programmers, and never directly to consumers, it is our philosophy to not incorporate programming capability directly into our products. Instead, we are committed to providing our dealers with the hardware and software tools that allow them to create re-usable programming databases in the most efficient and reliable way possible.

Before using the *IR-PRO*, please read and follow all of the instructions in this guide.

## Product Contents

Contents of the *IR-PRO* dealer kit include the following items:

- One (1) IR-PRO infrared code capture unit.
- One (1) standard USB cable (for the *IR-PRO*).
- One (1) mini USB cable (for other RTI products).
- One (1) hard plastic carrying case.
- One (1) operation manual.

## Software System Requirements

The *IR-PRO* is designed to work together with RTI's Infrared Library Manager software.

The minimum system requirements needed to run the Infrared Library Manager software are as follows:

- Windows 98SE<sup>®</sup>, Windows ME<sup>®</sup>, Windows 2000<sup>®</sup>, Windows XP<sup>®</sup> or later version.
- A free USB port.
- At least 20 Megabytes of free disk storage.
- Screen resolution of 800x600 with 256 colors.
- A mouse is required.

## Features and Benefits

The *IR-PRO* incorporates many features that make it the best tool available for capturing and collecting infrared codes from almost any Audio/Video product:

- Advanced infrared detection circuit ensures accurate code capture under almost any condition.
- Compatible with virtually all brands of A/V equipment and remote controls.
- EMI noise suppression for glitch-free acquisition.
- USB port for programming. The *IR-PRO* acts as a standard Human Interface Device, so no special drivers need to be installed on your PC (Windows 2000<sup>®</sup> and higher).
- No external power supply required. Power is derived directly from the USB port.
- Feedback LEDs confirm operation.
- Compact, rugged design. The *IR-PRO* is designed to be transported from one job site to the next without incurring damage.
- Available only to professional system integrators.
- Two year parts and labor warranty.

## Operation

In most cases the operation of the *IR-PRO* is simple and straightforward. Follow these steps to capture remote control infrared codes and store them in the Infrared Library Manager software:

1. Open the Infrared Library Manager program on your PC. If you do not have the software installed, a copy can be downloaded from RTI's website at:

**<http://www.rticorp.com/downloads>**

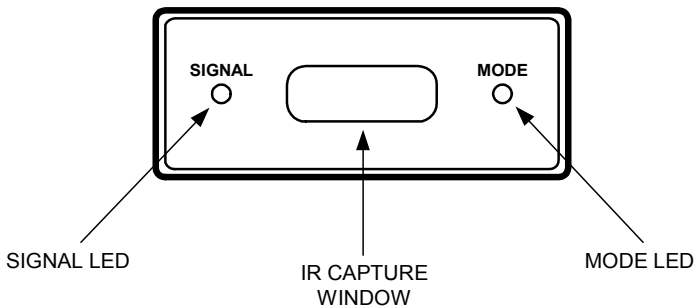
2. Open the command library that you want to add the new remote control codes to (e.g. User.cml).
3. Select an existing remote control from the open command library, or create a new one using the **Edit** mode.
4. Connect the *IR-PRO* to your PC using the included standard USB cable.
5. Place the *IR-PRO* on a flat surface next to your PC.
6. Place the remote control to be captured directly in front of the *IR-PRO*. The front of the remote should be 3 to 6 inches from the IR capture window.

7. Enter the **Capture** mode within the Infrared Library Manager program.
8. Select the **Align** function. The color of the Mode LED on the *IR-PRO* should become orange.
9. Press any button on the remote control and verify that the Signal LED on the *IR-PRO* flashes red. This step also allows the frequency of the remote control's infrared carrier to be measured.

**Important Note:** Step 9 must be repeated every time before a new remote is captured or whenever you enter the Capture mode.

10. Select the **Learn** function. The color of the Mode LED on the *IR-PRO* should become green.
11. Press and hold the button on the remote control that matches the function which is highlighted in the library's function list. Release the button when the Mode LED on the *IR-PRO* flashes red.
12. Repeat step 11 until all desired functions are captured into the library.

## Front Panel Reference



### **Signal LED**

Red = IR Signal Present

### **Mode LED**

Red = Power / Capture Complete

Green = Learn Mode

Orange = Align Mode

## Specifications

Power Requirements:	Powered directly from USB port
IR Carrier Frequency Range:	Up to 460 kHz
Operating Temperature:	+32°F to +122°F (+0°C to +50°C)
Operating Humidity:	5% to 95% non-condensing
Dimensions:	4.5 in. x 2.8 in. x 1.3 in. (114mm x 71mm x 33mm)
Weight:	6.0 oz. (170 grams)

All specifications are subject to change.





*It's Under Control*®



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