

# INSTALLATION MANUAL

## SONANCE OPTILINQ 2 IR REPEATER KIT over CAT5 USB POWER ADAPTOR

### Introduction

Sonance IR products provide a simple solution to controlling multiple AV devices. The IR Receivers pick up commands from an infrared remote control and send them to one or multiple points to be re-transmitted through an IR Emitter. This system allows electronic components to be hidden in cupboards or mounted remotely in a rack while still providing a reliable means of controlling them locally from a single point.

### Box Contents

(1) Dual IR Emitter, (2) IR Covers, (1) AC Power Supply with USB Adaptor Cable, (2) Emitter TX/RX Connection Blocks with Cat5 Inputs, (3) Adhesive strips with IR Emitter holes, and (1) Dual Band Receiver.

### Specifications

Compatible with all brands of A/V devices

Output frequency: 30-60 (kHz)

Receiving Distance: 40' - 50' (12-15 m)

Two choices for power included, AC or USB

Max cat5e/6 distance 700ft (213m)

Cat5e/6 cable not included

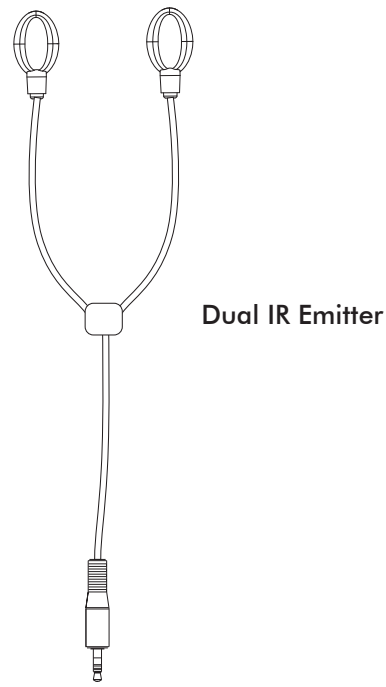
### Emitter Installation

Place the IR Emitter directly over the IR sensor located in the front panel colored window. You can locate it by looking up the front panel of the cable box user guide or use a flashlight to locate the sensor. It will look square. Place the Receiver Eye on or near your TV or flat screen

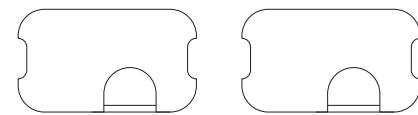
### Notes

Extra adhesive strips with 1/16" hole included to prevent IR sensor flooding on the device

Keep twist ties to wrap excess cables

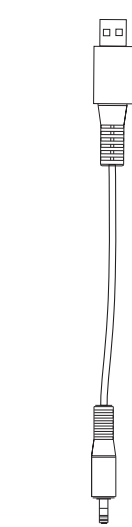
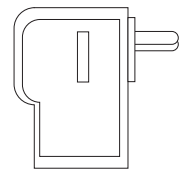


Dual IR Emitter

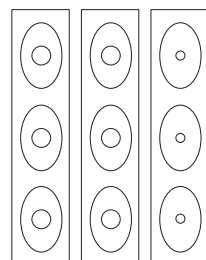


Emitter TX/RX Connection Blocks

AC Power Supply    USB Power Supply    Dual Band Receiver



Adhesive Strips with Emitter holes

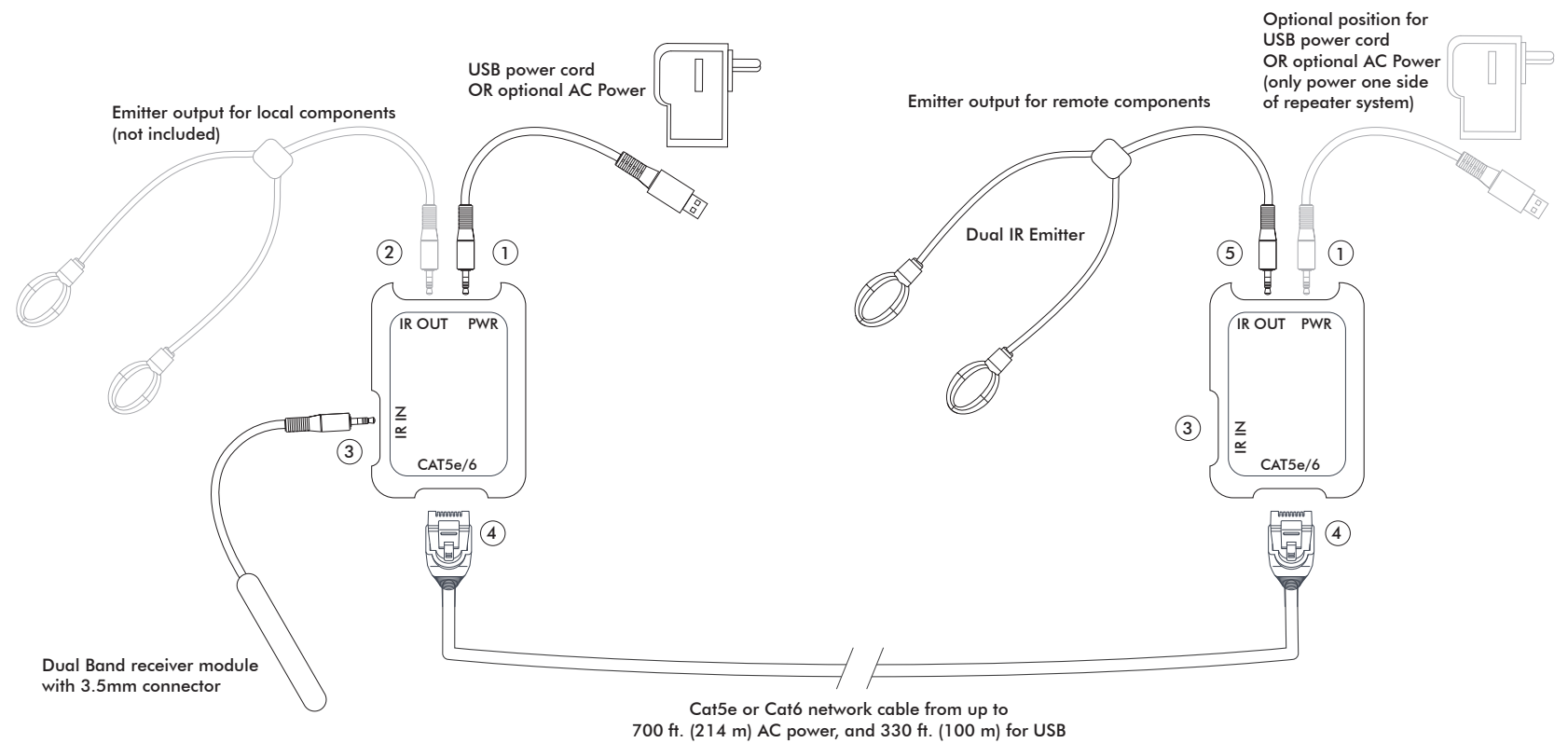


IR Covers



### TX/RX Block (bidirectional communication)

1. Power connection, two options (12V, 1A)
  - a) AC power; best extension up to 700 ft. (214 m).
  - b) USB, for standard IR protocol, detachable plug/cord up to 330 ft. (100 m)
  - c) USB, Boxes that have short time IR protocol cycles like, RCMM (ATT Uverse) and FoxTel boxes, the range is half the standard protocol at 165 ft. (50 m)
- 2 Local IR emitter output, for single or dual emitters
- 3 Dual Band receiver module with 3.5mm connector
- 4 Cat5e/Cat6 output to connect to TX/RX POE, power over ethernet, no need for additional power source for TX/RX
- 5 Remote IR emitter output, for single or dual emitters



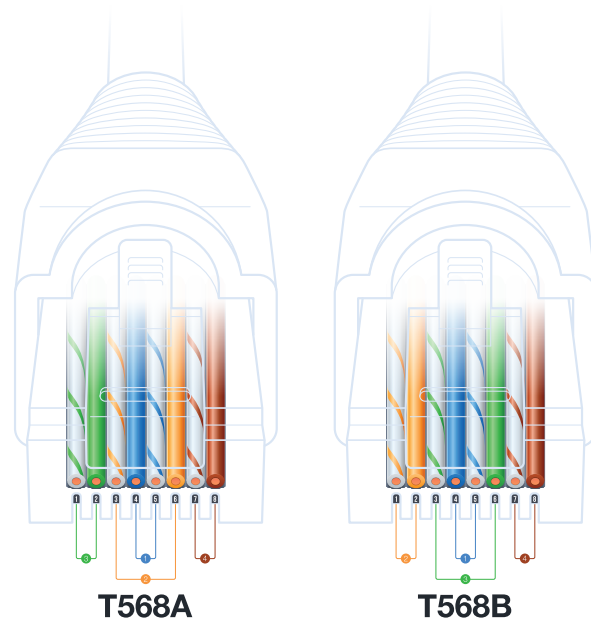
Optional position for USB power cord OR optional AC Power (only power one side of repeater system)

Dual Band receiver module with 3.5mm connector

Cat5e or Cat6 network cable from up to 700 ft. (214 m) AC power, and 330 ft. (100 m) for USB

## Wiring Diagrams for Cat5, 5e, 6, 6a Cables

1. For Patch Cables, 568B wiring is by far the most common method.
2. There is no difference in connectivity between 568B and 568A. Either wiring will work fine on any system.
3. Ensure both ends are wired identical.
4. Do not confuse pair numbers with pin numbers. A pair number is used for reference only (there are four color coded twisted pairs in an 8 conductor Category 5 or 6 cable). The pin number indicates actual physical locations on the plug (RJ45 connector) and jack



## Trouble Shooting

### Device does not respond to remote control

1. Check to see if the LED on the power supply is on when plugged in.
2. Check to see if the receiver flashes when remote keys are pressed
3. Check to see the if the receiver wire is tightly connected
4. Make sure the remote batteries are new. Do not mix old and new batteries
5. Make sure the cat5e/6 cables are securely connected to each TX/RX block
6. Check to see the IR emitters flash when the IR signal is transmitted
7. Check to see the IR emitters wires are firmly connected
8. Make sure the emitter is placed directly on top of the IR sensor located on the front panel of the cable box or device. You can locate the sensor by using a flashlight. It is located behind the front panel bezel and will look square. You can also look up your user guide on-line by typing in the make and model number followed by user guide.

## LIMITED WARRANTY

Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for two (2) years. Sonance will at its option and expense either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent.

## EXCLUSIONS

TO THE EXTENT PERMITTED BY LAW, THE WARRANTY SET FORTH ABOVE IS IN LIEU OF, AND EXCLUSIVE OF, ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IS THE SOLE AND EXCLUSIVE WARRANTY PROVIDED BY SONANCE. ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR USE, AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED. No one is authorized to make or modify any warranties on behalf of Sonance.

The warranty stated above is the sole and exclusive remedy and Sonance's performance shall constitute full and final satisfaction of all obligations, liabilities and claims with respect to the Product. IN ANY EVENT, SONANCE SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, ECONOMIC, PROPERTY, BODILY INJURY, OR PERSONAL INJURY DAMAGES ARISING FROM THE PRODUCT, ANY BREACH OF THIS WARRANTY OR OTHERWISE.

This warranty statement gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion of implied warranties or limitations of remedies, so the above exclusions and limitations may not apply. If your state does not allow disclaimer of implied warranties, the duration of such implied warranties is limited to period of Sonance's express warranty.

Your Product Model and Description:

**OPTILINQ 2 IR/CAT KIT**  
**2 IR Repeater over Cat5 Kit**  
**and USB Adaptor**

Additional Limitations and Exclusions from Warranty Coverage:

The warranty described above is non-transferable, applies only to the initial installation of the Product, does not include installation of any repaired or replaced Product, does not include damage to allied or associated equipment which may result for any reason from use with this Product, and does not include labor or parts caused by accident, disaster, negligence, improper installation, misuse (e.g. excessive heat or cold or humidity, outdoor installation), or from service or repair which has not been authorized by Sonance.

Obtaining Authorized Service: To qualify for the warranty, you must contact your authorized Sonance Dealer/Installer or call Sonance Customer Service at (949) 492-7777, must obtain a return merchandise number (RMA), and must deliver the Product to Sonance shipping prepaid during the warranty period, together with the original sales receipt, or invoice or other satisfactory proof of purchase.



©2016 Sonance. All rights reserved.

Sonance is a registered trademark of Dana Innovations. Due to continuous product improvement, all features and specifications are subject to change without notice. For the latest Sonance product specification information visit our website: [www.sonance.com](http://www.sonance.com)  
SONANCE • 212 Avenida Fabricante • San Clemente, CA  
92672-7531 USA  
(949) 492-7777 • FAX: (949) 361-5151 •  
Technical Support: (949) 492-7777  
[www.sonance.com](http://www.sonance.com)