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)
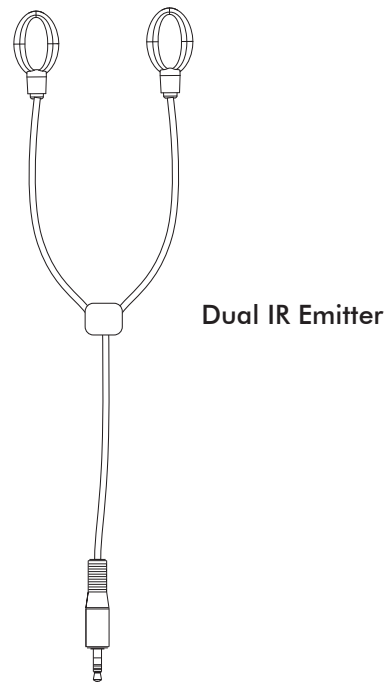
Cat5e/6 cable not included

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
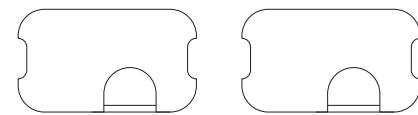
Notes

Extra adhesive strips with 1/16" hole included to prevent IR sensor flooding on the device
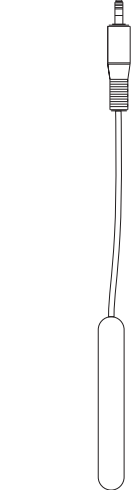
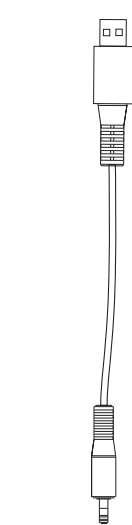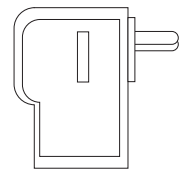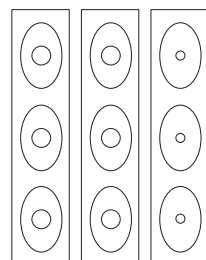Keep twist ties to wrap excess cables

Dual IR Emitter

Emitter TX/RX Connection Blocks

AC Power Supply   USB Power Supply   Dual Band Receiver

Adhesive Strips with Emitter holes
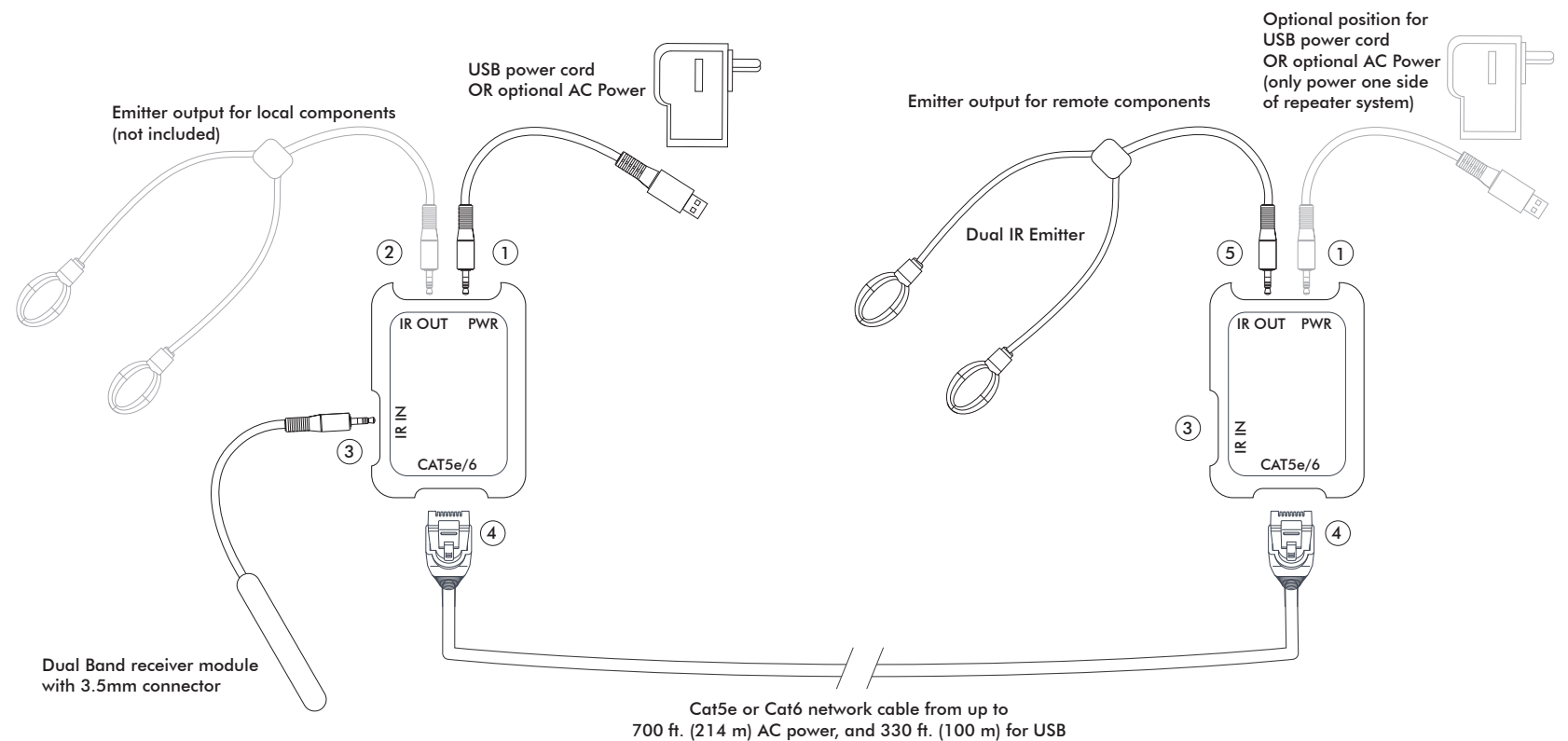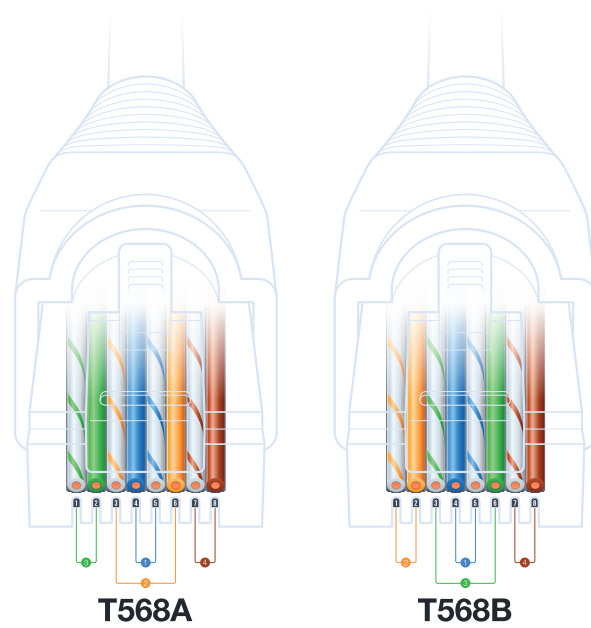
IR Covers

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

Emitter output for local components (not included)

USB power cord OR optional AC Power

Emitter output for remote components

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

Dual IR Emitter

② ①

IR OUT   PWR

⑤ ①

IR OUT   PWR

IR IN   CAT5e/6

IR IN   CAT5e/6

③

③

④

④

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

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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.

T568A   **T568B**

Your Product Model and Description:
OPTILINQ 2 IR/CAT KIT
2 IR Repeater over Cat5 Kit
and USB Adaptor