**INSTRUCTION MANUAL**

**SONANCE OPTILINEQ**

**2 IR REPEATER KIT over CAT5**

**USB POWER ADAPTOR**

**Introduction**
Sonance IR products provide a simple solution to controlling multiple A/V 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

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**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
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.

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.

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 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.

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.