R4K-IRB Setup Guide

The R4K-IRB extension cables have been designed to extend an IR extension system signal as well as supply 5V USB power to the Real4K extenders. The IR communication through the Real4K Optical Extenders can be configured as either one-way or bi-directional, with implementation recommendations provide for each below.

It is very important to verify the pin connections. IR cables have a variety of pinout configurations since there is no industry standard. *Be sure to verify compatibility of the system with the pinout below to ensure that the supply is not shorted to ground!*

PINOUT OF IR CONNECTORS

Each R4K-IRB cable has two IR connectors with the following functions and pinout connections:
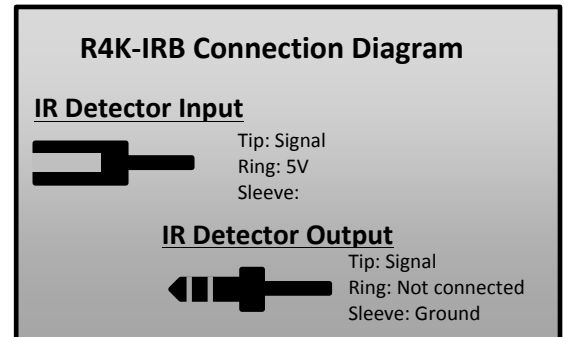
IR Detector Input – 3.5mm Female Receptacle
This is designed to plug directly to an IR detector
Note: It is NOT able to take/extend and IR emitter input

IR Detector Output to IR Block – 3.5mm Male Plug
The is designed to plug directly into an IR block's detector input
Note: It is NOT able to directly drive an IR emitter

R4K-IRB Connection Diagram

IR Detector Input
Tip: Signal
Ring: 5V
Sleeve:

IR Detector Output
Tip: Signal
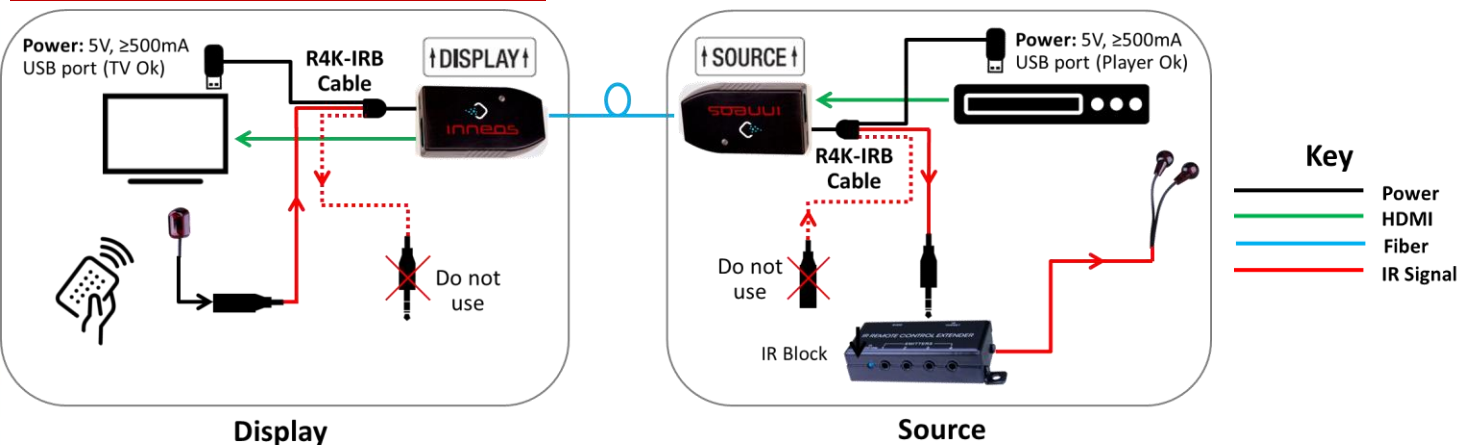Ring: Not connected
Sleeve: Ground

RECOMMENDED IR SYSTEM

The Real4K Optical Extender with R4K-IRB IR extension system is recommended to be used with the Vanco Compact 1 Zone 4 Source IR Kit
SKU: 280751

Recommended IR System:
Vanco Compact 1 Zone 4 Source IR Kit

EXTENDING IR REMOTE – ONE WAY

Power: 5V, ≥500mA USB port (TV Ok)
R4K-IRB Cable
DISPLAY
SOURCE
Power: 5V, ≥500mA USB port (Player Ok)
R4K-IRB Cable
Do not use
IR Block

Key
Power
HDMI
Fiber
IR Signal

Display

Source

EXTENDING IR CONTROL – BI-DIRECTIONALLY

Power: 5V, ≥500mA USB port (TV Ok)
R4K-IRB Cable
DISPLAY
SOURCE
Power: 5V, ≥500mA USB port (Player Ok)
R4K-IRB Cable

Key
Power
HDMI
Fiber
IR Signal

IR Block

IR Block

Display

Rack (Source)