4 by 4 Infrared Matrix

- ID# 844

Operation Manual

Introduction

The Infrared 4 by 4 Matrix is designed to control your source devices from beside your display/receiver. Using the original remote, you can control DVD/Blu Ray players, satellite and set-top-boxes and with a cross matrix design this device gives anyone the ability to send infrared signals from anywhere, any place. When used with an HDMI/converter matrix, this brilliant product will allow you to freely manage your sources and displays. Simply place the IR receiver near the display and put the IR blaster in a position so that all devices will be able to function properly, even when they are hidden in a cabinet or placed far away. So if your looking for a way to extend IR control over great distances, you have but one choice: The Infrared 4 by 4 Matrix

Features

- Supports independent IR receiver and IR blaster selection and control
- This device does not send audio/video signals, it only transmits and receives infra-red signals to control equipment that is far away, using IR extender cables.
- Supports a frequency of 20KHz ~ 70KHz.
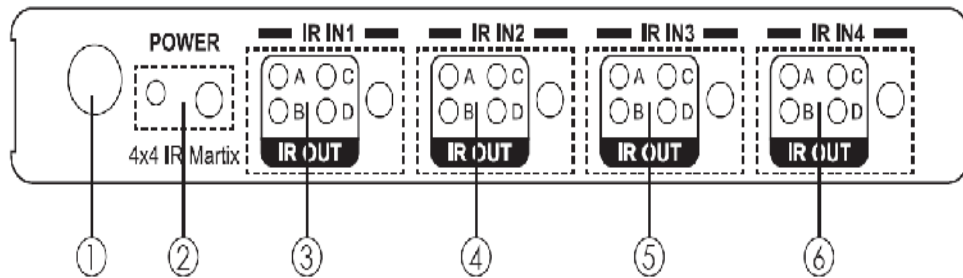- Use your existing remote controls.

Applications

- Control multiple sources
- System Control
- Showroom control

System Requirements

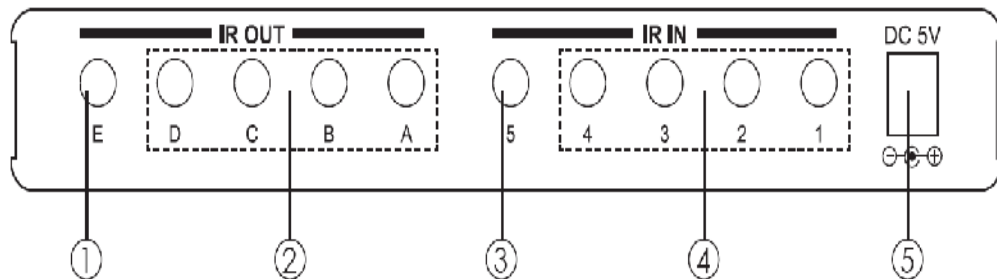Source equipment: Display/ TV/monitors and HDMI/video matrix box devices.

Operation Controls and Functions

Front Panel

①. **IR sensor**: To control the system.

② **POWER Button & LED:** Press to turn the unit on or again to put it into standby. When the system is on the LED will be green, press again to enter STANDBY mode, the LED will then be red.

③ **IR IN 1 & output LED:** Press the button to select which output IR signal will be sent, the LED will then change according to the selection.

④ **IR IN 2 & output LED:** Press the button to select which output IR signal will be sent, the LED will then change according to the selection.

⑤ **IR IN 3 & output LED:** Press the button to select which output IR signal will be sent, the LED will then change according to the selection.

⑥ **IR IN 4 & output LED:** Press the button to select which output IR signal will be sent, the LED will then change according to the selection.
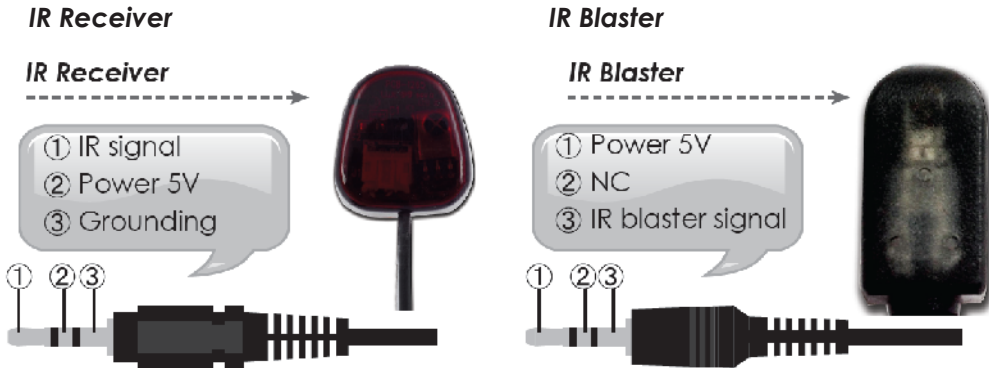
Rear Panel

①. **IR OUT ALL:** This slot is where you connect the IR blaster cable included in the package. Place it in a way so that all sources and devices are able to receive the infrared signal.

② **IR OUT A~D:** These slots are where you connect the included IR blaster cables. Place them far away so that only the designated equipment will be able to receive the infrared signal.

③ **IR IN ALL:** This is where you connect the IR receiver cable included in this package. Place it anywhere you wish to control the source devices, using their existing remotes.

④ **IR IN 1~4:** These slots are where you connect the IR receiver cables included in the package. Place it near each display for receiving an IR signal through the existing remote control.
⑤ **DC 5V:** Plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet.

IR Cable Pin Definitions

IR Receiver   *IR Blaster*

IR Receiver - - - - - - - - - - - - - - - →   *IR Blaster* - - - - - - - - - - - - - - - →

① IR signal   ① Power 5V
② Power 5V   ② NC
③ Grounding   ③ IR blaster signal

① ②③   ① ②③

Note: Both the IR Receiver & Blaster can support a frequency of 20~70KHz.

IR Functioning Chart

	IR OUT A	IR OUT B	IR OUT C	IR OUT D	IR OUT E
IR IN 1	◎	◎	◎	◎	▲
IR IN 2	◎	◎	◎	◎	▲
IR IN 3	◎	◎	◎	◎	▲
IR IN 4	◎	◎	◎	◎	▲
IR IN 5	△	△	△	△	△ ▲
IR Sensor	X				

◎: IR in can select IR out
X: Only accepts an IR signal from the remote control included in this products package.
△: You do not have to select IR input as this device can receive IR signals from all IR remote controls with a frequency between 20KHz~70 KHz
▲: You do not have to select input IR as this device can send IR signals to all sources With a frequency between 20KHz~70 KHz
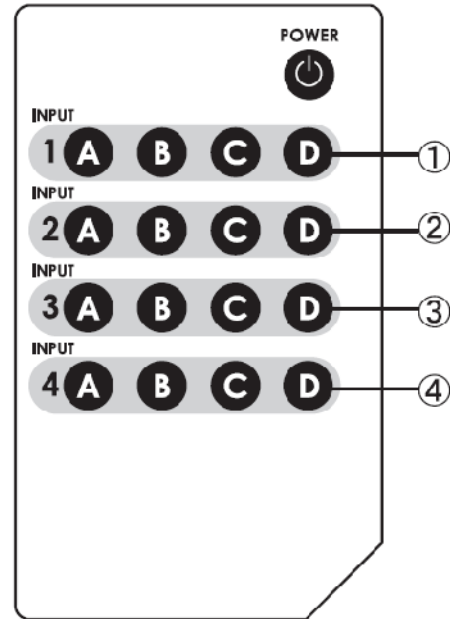
Remote Control

1. Power: Press the button to turn on/ standby the unit.

2. IR input 1: Select for IR OUT A~D: Press A, B, C or D to select the desired IR out for sending a signal.

3. IR input 2: Select for IR OUT A~D: Press A, B, C or D to select the desired IR out for sending a signal.

4. IR input 3: Select for IR OUT A~D: Press A, B, C or D to select the desired IR out for sending a signal.

5. IR input 4: Select for IR OUT A~D: Press A, B, C or D to select the desired IR out for sending a signal.

Specifications

IR Frequency	20KHz to 70KHz
Input port	4 x independent IR Blasters; 1 x total IR blaster control
Output port	4 x independent IR Receiver; 1 x total IR receiver control
Power Supply	5VDC/1A (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge)
Dimensions (mm)	180(W) x 124(D) x 25(H)
Weight(g)	450
Chassis Material	Aluminum
Silkscreen Color	Silver
Power Consumption	0.86W
Operating Temperature	0˚C~40˚C / 32˚F ~ 104˚F
Storage temperature	-20˚C~60˚C / -4˚F ~ 140˚F
Relative Humidity	20~90% RH (non-condensing)

Connection

ID 734

IR Emitters E

IR Receiver

Blu-Ray
IR Emitters D

PS3
IR Emitters C

DVD
IR Emitters B

Set-Top-Box
IR Emitters A

2M 2M 2M 2M 2M

▶extend 3.5mm ST female to male
ear phone jack cable up to 10M

IR OUT   IR IN   DC 5V
E D C B A   5 4 3 2 1

ID 844

▶extend 3.5mm ST female to male
ear phone jack cable up to 10M

2M 2M 2M 2M

2M

IR Receiver 4   IR Receiver 2

IR Receiver 5   IR Receiver 3   IR Receiver 1

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