Matchmaster
TV Reception Systems
For the Best

34MM-IRKIT
# INSTRUCTION MANUAL

CONTENTS

1x 34MM-IRCM - IR Extender Control Module
  with RJ45 RX/TX
1x 34MM-IR-RX - IR Receiver
1x 34MM-IR-TX - Dual IR Transmitter
1x Power Supply 12V @ 1A DC

INSTALLATION

1. Connect a 12VDC @ 1A power supply to the power jack.
2. The green LED will be illuminated when powered. This will power all of the IR components connected to the system.
3. Connect the IR receiver directly into the side of the 34MM-IRCM connecting block.
4. Connect the 34MM-IR-TX double emitters to any of the 3x 3.5mm emitter ports as required.
5. Attach the emitter eye as close to the IR window on the component as you can with the supplied double sided tape.

Local
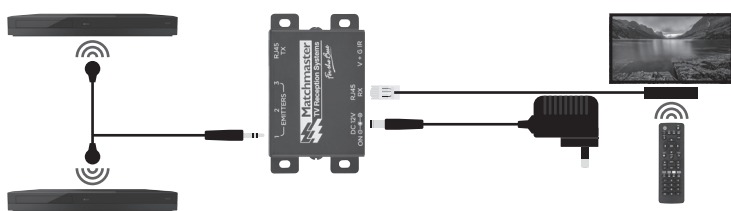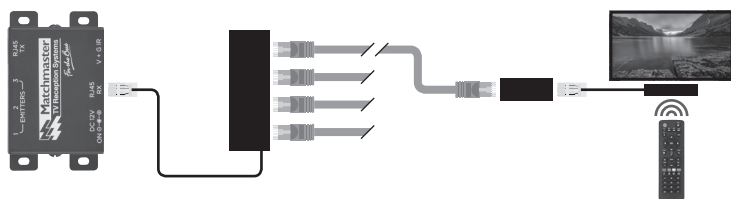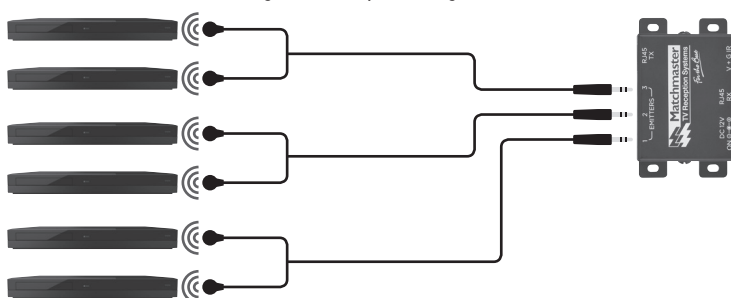

Extended
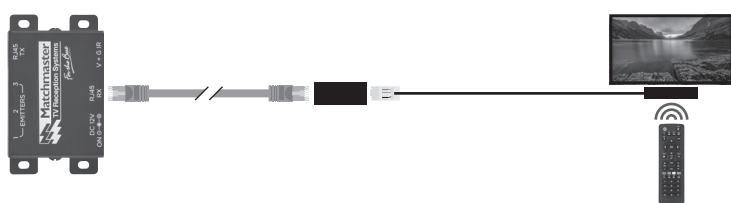
Multiple TV's
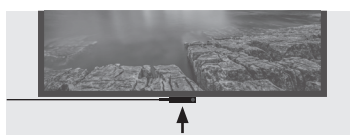34MM-IR4X accessory sold separately
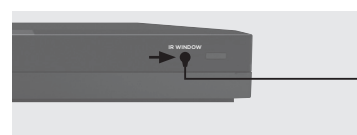

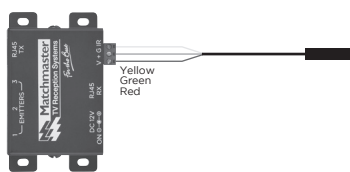### Multiple Sources
34MM-IR-TX accessory sold separately

IR Receiver Placement

IR Emitter Placement

IR Receiver Placement

Yellow
Green
Red

RJ45 Pinout

1. Empty
2. Black
3. Empty
4. Yellow
5. Green
6. Empty
7. Red
8. Empty

Distribution Over CAT5/6 Structured Cabling System
1x RX to 1x TX
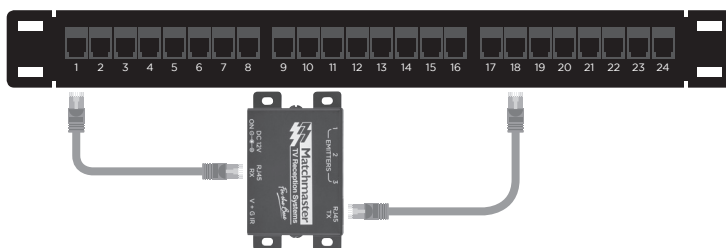
Multiple RX to Multiple TX
34MM-IR4X accessory sold separately
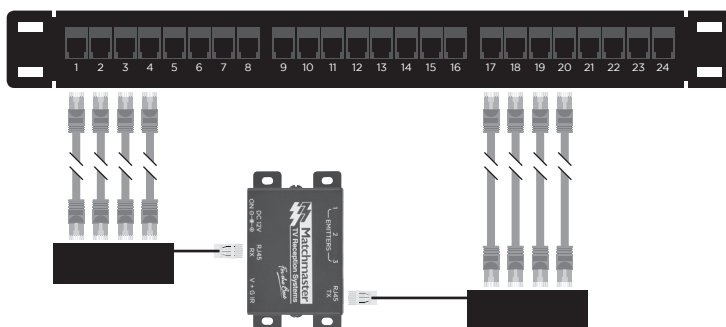
Converting CAT5/6 Back to IR
34MM-IRMJ accessory sold separately
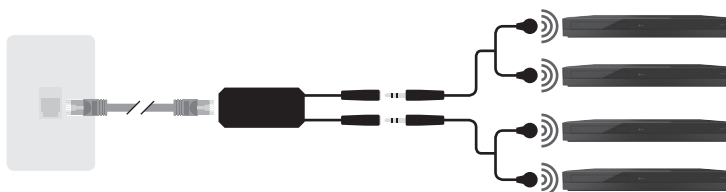
Daisy Chaining 34MM-IR4X
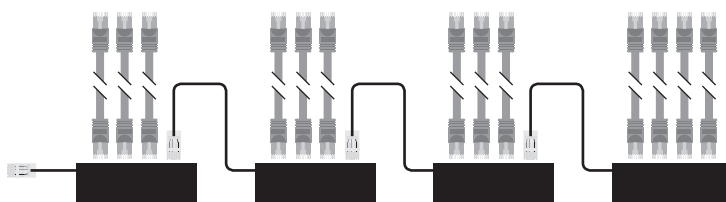
ACCESSORIES

34MM-IRCM IR Extender Control Module with RJ45 RX/TX
34MM-IR-TX IR Transmitter
34MM-IR-RX IR Receiver
34MM-IR4X IR Expansion Block 1x RJ45 Plug to 4x RJ45 Socket
34MM-IRMJ IR Adaptor 1x RJ45 Socket to 2x 3.5mm Socket (Mini Jack)

Symptom: Not working

Action:

1. Check the power supply is the correct voltage (12V 1A DC), and is plugged in and switched on with the green light lit.

2. Check the emitter is located directly over the IR receiver window of the component. If the location is not clear, you can normally dial into an approx location by holding the components remote very close to the front of the unit and trailing button pushes at different locations to see what works.

3. If converting to Cat5/6 from a remote location, check continuity on all connections and re-terminate if necessary. If you can't access these leads, test the system using a temporary CAT5/6 Patch lead across the floor to eliminate the installed lead as a possible problem.

4. If you are terminating bare wires into the connection block, check the screws have not clamped down on the outer sheath of the wire rather than the metal itself.
Also re-check you have the correct colour wire going to correct terminal.

Symptom: Intermittent

Action:

1. Battery replacement: Make sure the remote batteries are fresh. You can check the output from the remote with a mobile or tablet camera. Although IR cannot be detected by the naked eye, it will show up as a purple flash on the camera display. Some newer phones do not work due to the camera detecting and removing 'Red Eye'.

2. IR present in room: Too much IR already present in the room can cause intermittent performance and even complete dropout. This can come from several different sources:

    a. Older Plasma N's emit IR, the way to check this is to turn the TV off and check IR operation by the IR indicator light if the component has one, or with another TV. Remedy this by using the included attenuation tape over the IR window of the IRSEND68, which will filter out some of the IR noise. If you don't have this tape, use any colour electrical tape. If this is not effective, try shifting the IR receiver out from within the TV screens radiation pattern e.g. behind the screen or under the bottom lip.

    b. CFL or fluorescent lighting can interfere if the carrier frequencies are the same as the remote's. Turn the lights off to check. To remedy, change the lighting, or reposition to avoid line of sight with the IR Receiver.

    c. Excessive Sunlight can cause IR performance to drop away. To check pull the curtains or check operation at night.

    d. Too many IR blasters/flooders in one location. If you are using multiple IR flooders, or blasters, (e.g. from multiple HDMI to CAT5/6 extenders) back to one location, the cumulative effect of the small level of IR present in each room being transferred back to one area, can block clean IR performance. Unplug all blasters and plug back in one by one to check effect on IR performance. Try attenuation tape on the IR receivers in the rooms that cause problems.