

Technical Specifications

HDC-IR SPECIFICATIONS	
ITEM	
IR Eye input	
IR Frequency Range	30 KHz to 80KHz
Capture Distance	Up to 25ft
Cable Connector	3.5mm stereo jack
IR Signal Indicator	Green LED
Power Requirements	5VDC 30mA
Signal Type	TTL
IR Emitter output	
IR Frequency Range	30KHz to 80KHz
Emitter Distance	Up to 10'
Cable Connector	3.5mm mono jack
IR Signal Indicator	Red LED
Box	
Power Requirments	12VDC 2A single power up to 250'
Cable Link	CAT5 568A or 568B
Dimension	2.5"x2.5"x1.0"
Weight	.25lb (0.9 Kg.)

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Smart-AVI

Smart Audio Video Integration

User Manual

HDC-IR



Use a single CAT5 to broadcast
IR up to 1000ft away(333m)

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Introduction

The HDC-IR range of products allow the extension of Infra Red control signals using single CAT5 UTP (category 5, unshielded twisted pair) cable. The HDC-IR is the first product for this application.

Features

- Uses easy to install, inexpensive CAT5.
- Output reaches up to 1000 feet (300 m).
- Sends IR and Power signals over CAT5
- High ground loop immunity.
- Built-in lightning, power surge and transient protection.
- Remote Units come with Buffered Outputs.
- Compact Enclosure.
- Optional power supply for remote unit.
- Fully compliant with standard modulated IR and the latest IRDA.
- Fully transparent path for all protocols and data transfers.
- Bi-directional IR.
- Supports any IR Remote Control.

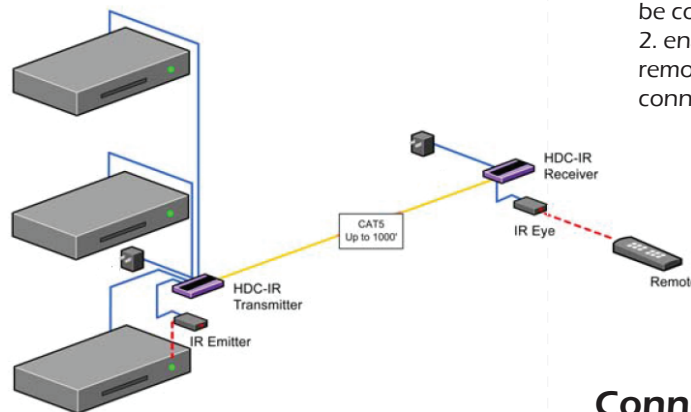
What's in the box?

HDC-IR

Please check the contents of the package before beginning installation.

Qty	Item	Description
1	HDC-IR-TX	IR Transmitter
1	HDC-IR-RX	IR Receiver
1	SM-LED	IR Emitter
1	SM-EYE	IR Eye "Optional"
2	PS12VDC2A	Power supply 12VDC2A

Installation Diagram



Installation Instructions

Connecting the Transmitter

1. Connect the IR LED to the IR window on the source device.
2. Connect power supply to the unit. Observe LED lighting up indicating power present.

Connecting the Receiver

1. Connect IR LED to the IR window on the source device.
2. Connect the IR Eye to the Receiver.
3. Observe LED lighting indicating power present.

Connect the Transmitter to the Receiver

Connect the transmitter to the receiver using Category 5 UTP cable (Purchased separately). The CAT 5 UTP cable, if purchased in bulk, will be wired using 568A or 568B wiring standard. Once connected, check that the power LEDs on both the receiver and the transmitter are on, IR status LED is on and RX LED is flashing when Remote control is used indicating that communication is in progress.

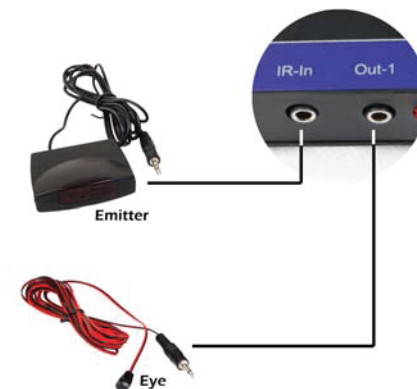


HDC-IR can be used 2 ways,

1. enabling the remote side to control the DVD, or any other source device. (the IR eye would be connected at the remote).
2. enabling the source side to turn off or on the remote TV/Monitor (the IR eye would be connected at the source).

Connecting the IR

Use the Diagram for the IR connection.



Operating Instructions

Once installation is completed, verify that the power is present at all devices in the system. The peripheral devices should be ready for use.

CAT 5 Wiring Standards

Pin #	EIA/TIA 568A	EIA/TIA 568B
1	White with green stripe	White with orange stripe
2	Green with white stripe or solid green	Orange with white stripe or solid orange
3	White with orange stripe	White with green stripe
4	Blue with white stripe or solid blue	Blue with white stripe or solid blue
5	White with blue stripe	White with blue stripe
6	Orange with white stripe or solid orange	Green with white stripe or solid
7	White with brown stripe or solid brown	White with brown strip or solid brown
8	Brown with white stripe or solid brown	Brown with white stripe or solid brown