

Technical Specifications

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Smart Audio Video Integration

HDC-IR SPECIFICATIONS

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ITEM	HDC-IR SPECIFICATIONS	
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 Requirements	12VDC 1A single power up to 250'	
Cable Link	CAT5 568A or 568B	
Dimension	2.5"x2.5"x1.0"	
Weight	.25lb (0.9 Kg.)	



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

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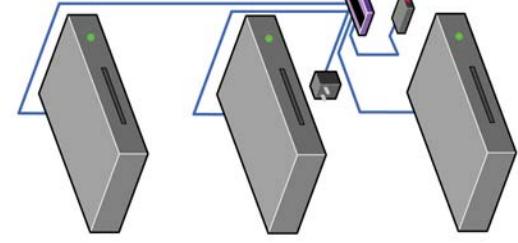
2840 N. Naomi Ave.
Burbank, California 91504
Phone: (818) 565-0011
Facsimile: (818) 565-0020

www.smartavi.com

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.

Installation Diagram

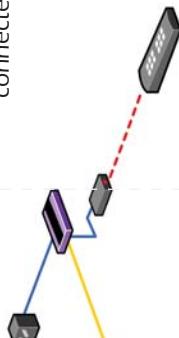


Features

- 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.

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).

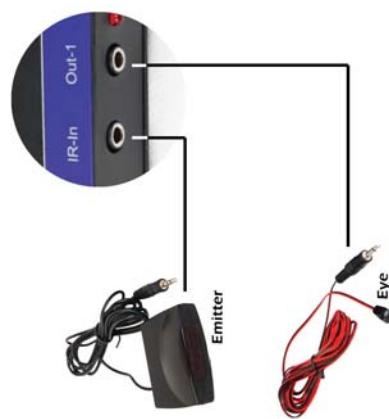


What's in the box?

- 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 | PS12VD1A | Power supply 12VDC1A |

Connecting the IR

Use the Diagram for the IR connection.



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.

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.



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