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 stero 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 1A single power up to 250' | | | |
| Cable Link | CAT5 568A or 568B | | | |
| Dimension | 2.5″x2.5″x1.0″ | | | |
| Weight | .25lb (0.9 Kg.) | | | |



205 Westwood Ave, Long Branch, NJ 07740 Phone: 866-94 BOARDS (26273) / (732)-222-1511 Fax: (732)-222-7088 | E-mail: sales@touchboards.com

© Copyright 2008 Smart-AVI, All Rights Reserved

Notice

The information contained in this document is subject to change without notice. Smart-AVI makes no warranty of any kind with regard to this material, including but not limited to, implied warranties of merchantability and fitness for any particular purpose.

Smart-AVI will not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

No part of this document may be photocopied, reproduced or translated into another language with out prior written consent from Smart-AVI.

Smart-AW Smart Audio Video Integration

User Manual

HDC-IR



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

Smart-**AV**i

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 | PS12VD1A | Power supply12VDC1A |

Installation Diagram

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 Standard | Standards | Wiring | 5 | CAT |
|-----------------------|-----------|--------|---|-----|
|-----------------------|-----------|--------|---|-----|

| | citi b ti inig 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 | | | |
| | | | | | |

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

Connect IR LED to the IR window on the souce 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.