Technical Specifications

HDC-VX SPECIFICATIONS

ITEM	
Range	
AV+IRover CAT5 UTP	1,000 ft (333 m)
Remote Control Range	25 ft
Video Input	
Signal type	NTSC/PAL/SECAM Composite Video 1V p-p
Bandwidth	100 MHz
Impedance	75 Ohm
Connector	RCA, Female
Audio Input	
Signal type	Stereo Audio
Bandwidth	15 MHz, 0 dB
Impedance	100 Ohm
Connector	RCA
Video Output	
Signal Type	NTSC/PAL/SECAM Composite Video
Bandwidth	100 MHz
Impedance	75 Ohm
Connector	RCA, Female
Audio Output	
Signal Type	Stereo Audio
Bandwidth	15 MHz, 0 dB
Impedance	100 Ohm
Connector	RCA
IR Input	
Signal Type	30-500 kHz modulated IR
Connector	3.5 mm mini jack, Female
Physical	
Dimensions	2.5" x 2.5" x 1.0" 85 x 84 x 35 mm)
Weight	.25 lb (0.9 Kg.)

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Smart-AVI
Smart Audio Video Integration

User Manual

HDC-VX

Use a single CAT5 to broadcast Video, Stereo Audio and Bi-Directional IR up to 1000ft away(333m)

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Introduction

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

Features

- Uses easy to install, inexpensive CAT5.
- Output reaches up to 1000 feet (300 m).
- Supports PAL, NTSC and SECAM.
- Video 100 MHz Bandwidth.
- Video cable compensation.
- Sends Composite Video, Stereo Audio, IR and Power signals over single CAT5.
- Compatible with Line Level Stereo Audio Signals.
- 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.
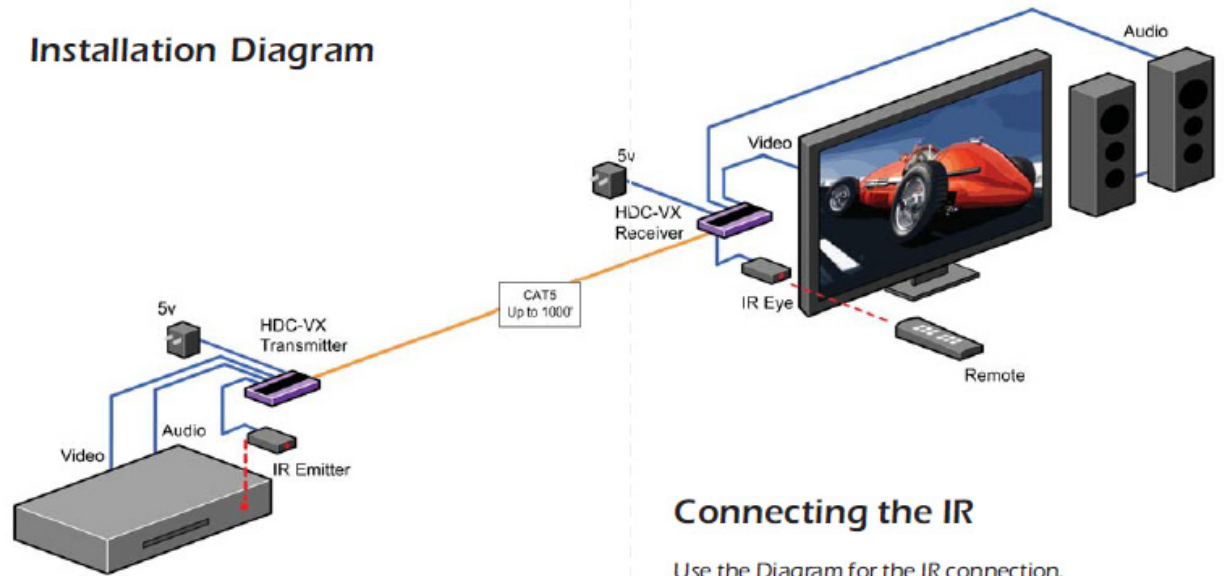- Fully transparent path for all protocols and data transfers.

What's in the box?

HDC-VX
Please check the contents of the package before beginning installation.

Qty	Item	Description
1	HDC-VX-TX	Video/Audio/IR Transmitter
1	HDC-VX-RX	Video/Audio/IR Receiver
1	SM-LED	IR Emitter
1	SM-EYE	IR Eye "Optional"
2	PS5VDC2A	Power supply 5VDC2A

Installation Diagram

Installation Instructions

Connecting the Transmitter
1. Connect the AV transmitter to your DVD, VCR, satelliter receiver or other source of video signal.
2. Using RCA M-M cables , connect transmitter to audio source.
3. Connect IR LED to the IR window on the source device.
4. Connect power supply to the unit. Observe LED lighting up indicating power present.

Connecting the Receiver
Connect receiver to the display, typically a TV monitor using Video cable (not included) and audio cable RCA Male to Male.

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.

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