

Technical Specifications

HDC-400 Specification

Max Distance 1,000 feet
Format RGB, YUV, Y/C, CVBS
1 volt p-p, 75 Ohm
Resolution Up to 1900 x 1200
Supported Signals YPbPr, Y/C, composite video, stereo audio
Video Amplifier Bandwidth 300 MHZ
Audio Frequency Response 20 Hz to 20 kHz
Supported Resolutions 480p, 720p, 1080i, 1080p
Connectors Three female RCAs for video and two female RCAs for audio
Cable Cat 5, Cat 5e, Cat 6, Cat 6e
RS232 DB9M, TXD, RXD, Gnd., 9600 bps
Enclosure Metal
Dimensions
Power 5 VDC @ 2 A
Shipping Weight
Operating: 32 to 131 degrees F
Storage: -4 to 185 degrees F
Humidity: up to 95%
Warranty 2 years
Compliance CE, RoHS



Sending an RS-232 command to remote monitor

In order to send a command to a remote monitor, you will need to use The following query at 9600 baud rate;

<CR>//M1<CR>

- After sending this query, any command sent from the PC will go directly to monitor 1
- To send a command to monitor 2 replace "M1" with "M2" etc...
- To send the same command to all monitors (but only monitor 1 will answer) Use the following command;
<CR>//M0<CR>

*<CR> = Carriage return

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Smart-AVI

Smart Audio Video Integration

User Manual

HDC-400



Use Cat5 Cabling to Broadcast High-Resolution Component Video, Stereo Audio, RS-232 and Infrared to Four Stations up to 1,000 Feet Away

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Introduction

The HDC-400 family of products allows the extension of a wide range of video and audio formats and RS-232, IR up to 4 locations using Category 5 Unshielded Twisted Pair (UTP) cables.

With RS-232 communication support the HDC-400 allows users to send commands to single or multiples devices. This allows the user to change volume, channel or turn on/off the remote LCD TV.

Features

- Supports Dual Screens.
- Uses Easy to Install, Inexpensive CAT-5/5e/6/7/8
- Each Output Reaches Up to 1,000 Feet (300 m).
- Supports High Resolution Video up to 1900 x 1200
- HDTV Compatible (720p, 1080i, 1080p)
- 300 MHz Bandwidth.
- Sends High-Resolution Component Video, Stereo Audio Signals, RS-232 or IR from one source to 4 locations.
- Compatible with Line Level Stereo Audio Signals.
- High Ground Loop Immunity.
- Built-in Power Surge and Transient Protection.
- Designated Trimmer in the Remote Unit to Compensate for cable Length.
- Compact Metal Case Enclosure.
- External Power Supply.
- RS-232 Communication Support to single or multiple Displays.
- IR Command to Single or multiple Displays.

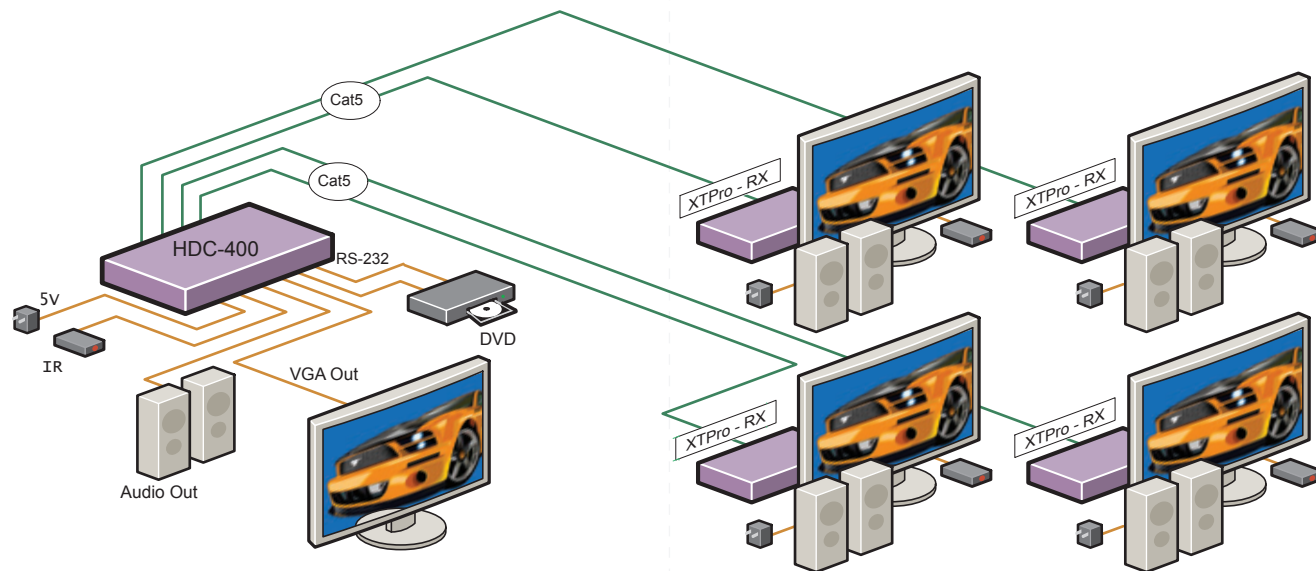
What's in the box?

HDC-400

Please check the package contents before installing.

HDC-400 Package Contents		
Qty	Items	Part No.
1	HDC-400 Trasmmitter Unit	HDC-400 TX
1	5 volt dc power supply	PS-5D1A-US
Optional		
1	Audio 3.5 mm stereo miniplug cable	CC-MMAMM-06
1	XTPRO Receiver unit	XTPRO-RX
1	IR EYE Receiver	SM-EYE
1	IR Emitter	SM-LED
1	6' RS232 cable	CCRS232-06

Installation Diagram



Connecting The Transmitter

1. Connect the output of the computer video card to the video input of the transmitter using the included male to male video cable.
2. Connect the output of the computer audio card to the audio input of the transmitter using 3.5mm audio male to male audio cable.
3. Connect local monitor to the video out of the transmitter.
4. Connect external speakers to the transmitter's audio out (Standard 3.5mm stereo miniplug).
5. In the back of the unit connect the Cat5 cable that will connect to the receiver (HDC-400-RX).

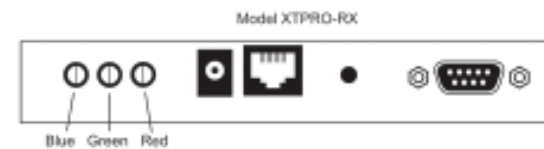
***NOTE: You can not use RS-232 and IR at the same time.**

Connecting The Receiver

1. Connect Cat5 cable (coming from the transmitter) to the back of the receiver.
2. Connect 1-4 display monitors to the video out connectors on the front of the receiver.
3. Connect 1-4 sets of external speakers to the audio output connections on the front of the unit.

Adjusting and Tuning the Signal

In order to fine tune the signal, adjust the individual dials one at a time starting with GREEN, then BLUE, and lastly RED. As you turn the dials you will notice the colors slightly change as you increase or decrease the strength. All dials should be around the same distance.



Preparing & Connecting System CAT5 Cable

Following is the wiring standard for terminating Cat5 cable using RJ-45 connector:

- | | |
|--------|------------|
| Pair 1 | Pins 1 & 2 |
| Pair 2 | Pins 3 & 6 |
| Pair 3 | Pins 4 & 5 |
| Pair 4 | Pins 7 & 8 |



Connectors: RJ-45
Capacitance: 14 pf/ft (46.2 pf/m)
Conductor Gauge: 24 AWG
Impedance: 100 +/- 15 ohms
 4 - Pair