

# HDX-PRO

## HDTV Media Distribution and Extension via CAT5



### Use a Single CAT5 Cable to Broadcast High Resolution HDTV, Stereo Audio, RS-232 and IR up to 1,000 Feet Away

HDX-PRO a high-resolution HDTV and stereo audio extender component within SmartAVI's HDControl product family geared specifically toward home theater owners and designers. Using small transmitter and receiver units, you can broadcast HD desktop video, stereo audio signals, infrared and RS-232 over unshielded twisted pair (UTP) cabling.

Using RS-232 and IR support, the HDX-PRO allows users to send commands such as volume control, channel viewing or power on/off, to single or multiple devices from remote locations.

#### Features

- Uses easy-to-install, inexpensive CAT5/5e/7/6/8
- Extends output up to 1,000 feet
- Supports high-resolution video up to 1920 x 1200
- HDTV compatible (720p, 1080i, 1080p)
- Supports Component Video (YPbPr)
- 300 MHz bandwidth
- Sends high-resolution HDTV, stereo audio, RS-232 and IR signals from one source to remote location using single cat5
- 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
- Transparent RS-232 and IR communication

## Take Control of Your Home Theater

The HDX-PRO has been carefully designed to be compact and aesthetically pleasing for simple and professional home theater integration.

While most home theater systems are relatively compact in component placement, the HDX-PRO makes extending your video and audio signals up to 1,000 feet possible; this is useful in a design that calls for the home theater devices to be set up in a different location, away from the viewing area.

In addition to easy signal extension, the HDX-PRO's IR control support allows for easy system management, giving you the freedom of how you control what's being viewed and when it's being viewed, whether from your seat or in another room.

### Specifications

#### TRANSMITTER AND RECEIVER

##### Video

Bandwidth 400MHz  
Analog signal Level 1 volt  
Impedance 75 ohms

##### Connector

3 RCA

##### Format

YPbPr analog component video

##### Audio

Bandwidth 20 KHz  
Signal level OdB  
Impedance 10K ohms  
Connector RCA Left and Right

##### System and Cable

Type Cat5 UTP EIA 568A  
Connector RJ45

##### Power

Requirements 5V DC @500mA  
Connector 5x2.1 DC Jack

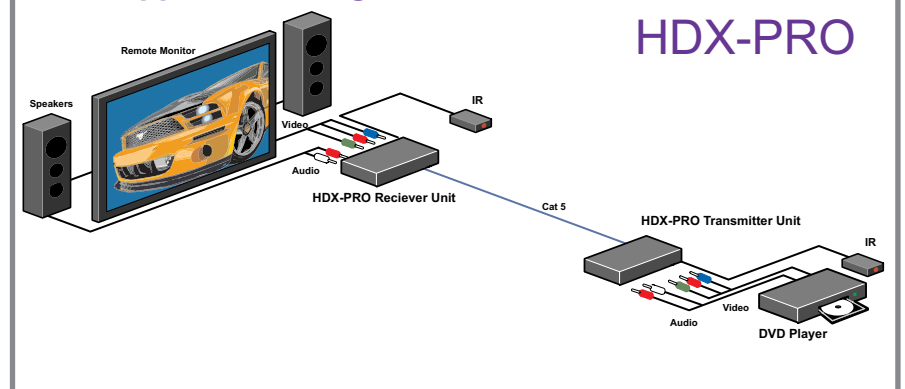
##### RS232

DB9 Male/Female  
baudrate up to 115,000bps

##### IR

IR Emitter Output  
IR Frequency Range 30KHz to 80KHz  
Emitter Distance Up to 10'  
Connector 3.5mm stereo jack for emitter

### Application Diagram



### Applications

**Home Theater** – The HDX-PRO has been designed specifically with home theater integration in mind. This unit supports high-definition video and stereo audio signals from DVD players, gaming consoles and stereo receivers.

**Corporate Presentations** – The perfect A/V signal extension solution for any board or meeting room that features a screen that is used to broadcast presentations to a professional audience.

**Educational and Professional Training** – Extend your HD signals into the classroom, training facility or lecture hall from a remote location.



### Order Info

HDTV/Audio/RS232/IR Point to Point CAT5 Extender. Includes: [HDX-PRO-TX, HDX-PRO-RX, 2 x (PS5VD1A)]

Many leading companies have recognized and embraced the innovation of SmartAVI's technologies and have successfully incorporated them into their organizations. Users of SmartAVI include:

