

# AVN441HD

h.264 high-definition encoder blade



## PRELIMINARY INFORMATION

Visionary Solutions' encoders can turn video from almost any source into full-screen, full resolution Internet Protocol digital video in real time.

The AVN441HD encodes high definition video up to 1080i in an h.264 stream (MPEG-4 Part 10/AVC). It's used in a Media Processing Platform (MPP), a high density rack mount system. Plug a video source directly into the blade, plug into the network via the RJ-45 connection, and stream real-time high definition video over your LAN or WAN. The MPP with AVN441HD blades is suitable for all applications requiring cost-effective, low bit rate, high definition video distribution over IP networks.

## FEATURES

### Superior Audio/Video Quality

h.264 (MPEG-4 Part 10/AVC) hardware compression and Visionary Solutions' optimized transmission technology provides a high definition video full frame rate IP video stream. The stream can be viewed by an unlimited number of clients on a LAN or WAN provided that bandwidth is available. Image resolutions are configurable to 720p or 1080i at 50 or 60 frames per second or 1080p at 24 frames per second. The video bit rate can be configured from 4 to 18 Mbps. The audio compression is either AAC (128 to 512 kbps audio encoding) or MPEG-1 Layer 2 (64 to 384 kbps audio encoding) with up to 48 kHz sample rate.

### Video Inputs

The AVN441HD includes three BNC connectors for component YPbPr or RGB, and one HDMI input for connecting video and audio source equipment.

### Audio Inputs

A terminal block connector provides audio inputs for Balanced and Unbalanced connections. This allows for easy onsite connections regardless of the cabling outputs of the audio source. There are also

two RCA audio connectors (L/R) which support only unbalanced connections, and the HDMI input carries audio as well. The AVN441HD features user control of audio parameters, including mute, pre-amp and volume.

### External Device Connections

The AVN441HD includes a serial connection via an RJ-45 connector. This connector can be used as an RS-232 port (full-duplex, no hand shaking) or an RS-422 (full-duplex) port. These ports allow the AVN441HD to interface with external devices such as terminal emulation equipment.

### Management & Configuration

of the device is accomplished by any of four methods, PackeTV™ Configuration Utility, console menus, a Web interface, or the AVN Control Protocol API. TCP/IP, HTTP, and other Internet-related protocols are supported.

**PackeTV™ Configuration Utility** (included) enables quick and efficient setup and mass reconfiguration of key settings including bit rate, video resolution and multicast destination IP addresses.

**The IPTV Media Processing Platform from Visionary Solutions** is a high density rack mountable blade system. The MPP1700 platform, pictured at right, with dual redundant power scheme, will hold up to eight AVN441HD high definition (HD) encoder blades or seventeen standard definition (SD) blades. The MPP200 has a single power source and can hold one HD or two SD blades. Each Media Processing Platform will incorporate a growing family of modules to support transport, switching, transcoding and monitoring of IPTV.



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### SPECIFICATIONS - PRELIMINARY (SUBJECT TO CHANGE)

#### Input/Output

- 1- HDMI connector provides input for HDMI video sources.
- 3-BNC connectors (with RCA adapters) provide input for component YPbPr or RGB video sources. RCA video connections supported via adapters.
- 1- terminal block audio connector provides audio inputs for Left/Right Balanced and Unbalanced connections.
- 2- RCA Audio connectors provide inputs for Left/Right Unbalanced audio.
- RJ-45 Ethernet port for stream output and control.
- RJ-45 Serial port connector which allows RS-232 (full duplex, no handshaking) and RS-422 (full duplex) communication.

#### LED Status Indications

- 10/100 LED indicates the speed of the connection.
- Link/Act LED indicates the status of the Ethernet link.
- Status LED indicates proper installation, power, and operation.
- Video LED for valid video status and streaming status.

#### Regulatory Approvals

(MPP chassis required)

- MPP1700 - FCC Part 15 Class A, UL Listed I.T.E. E257717, CE
- MPP200 - FCC Part 15 Class B, UL Listed I.T.E. E257717, CE

#### Includes

- One AVN441HD blade.
- Limited 12-month product warranty.
- Three RCA-to-BNC adapters, female-to-male.
- One Wiedemuler terminal block connector for audio connections.
- PackeTV™ software and product documentation CD available upon request or download from [www.vsicam.com](http://www.vsicam.com).

#### Optional

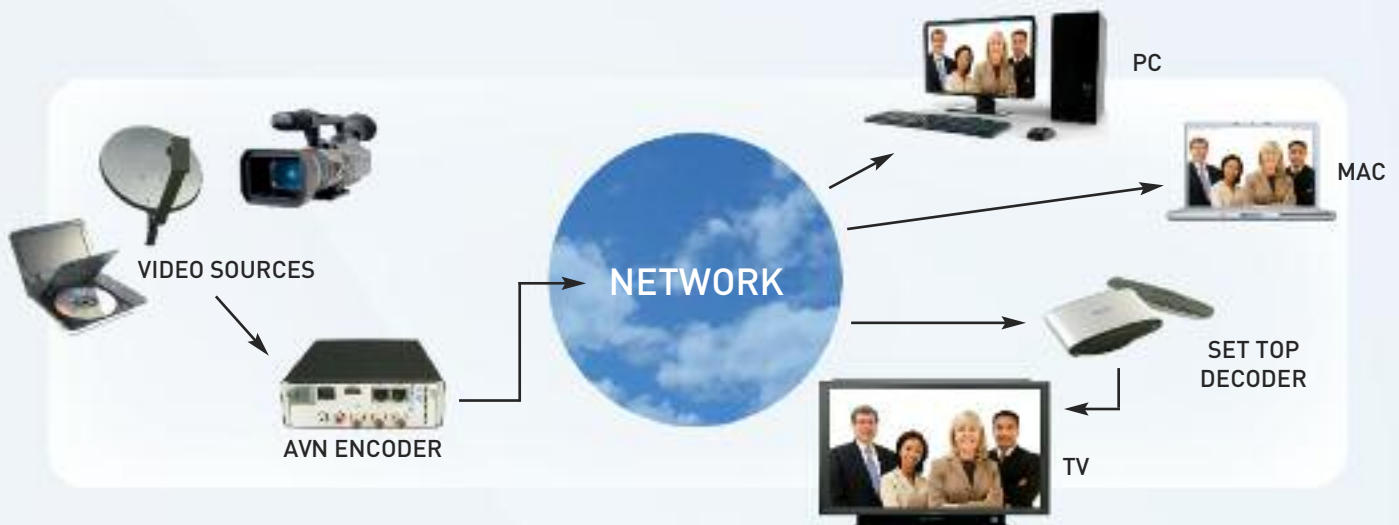
- Unbalanced audio cable for AVN series blades.
- Extended Product Warranty.

**Dimensions** W- 1.6 in. (40mm), H- 5.2 in. (131mm), D- 6.9 in. (175mm)



The AVN441HD mounted in the MPP200 Media Processing Platform.

Below: an empty MPP200 chassis.



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THE COST PERFORMANCE LEADER IN PROFESSIONAL IPTV

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