

OVERVIEW

AVN220

AVN220 IPTV encoders can turn video from any composite or S-video source into full-screen, full resolution Internet Protocol digital video in real time.

The AVN220 encodes standard definition video in an MPEG-2 stream. It's used in a Media Process 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 digital video over your LAN or WAN. The MPP with AVN220 blades is suitable for applications requiring cost effective, high bit rate, standard definition video distribution over IP networks.

FEATURES

Superior Audio/Video Quality

MPEG-2 hardware compression and Visionary Solutions' optimized transmission technology provides a video image at full frame rates and D1 resolution. The video stream can be viewed by an unlimited number of clients on a LAN or WAN with 25 fps PAL or 30 fps NTSC assured, provided that bandwidth is available. Image resolutions are configurable from D1 (720x480 NTSC, 720x576 PAL) down to 352x240. The video bit rate can be configured from 1.5 Mbit/s to 7.5 Mbit/s. The audio compression is MPEG-1 Layer 2 audio encoding at either 256 or 384 kbps with a 48 KHz sample rate.

Video Inputs

The AVN220 includes one BNC composite input, one RCA composite input and one S-Video input for connecting video source equipment.

Audio Input

A terminal block connector provides audio inputs for Balanced and Unbalanced connections, allowing for easy onsite connections regardless of the cabling outputs of the audio source. An audio preamp provides control of balance, volume, tone, bass and treble.

Closed Captioning

The AVN220 supports EIA-608 closed captioning.

External Device Connections

The AVN220 includes a serial connection via an RJ-45 or an RJ-11 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 AVN220 to interface with a variety of external devices, such as Pan/Tilt/Zoom (PTZ) devices.

Management & Configuration

of the device is accomplished by any of four methods: PackeTV™ Manager (2nd generation), console menus, a Web interface, or the AVN Control Protocol API. TCP/ IP, HTTP and other Internet-related protocols are supported.



The IPTV Media Processing Platform is a high density rack mountable blade system.

The MPP1700 platform with optional dual redundant power scheme, will hold up to seventeen single slot encoder blades, or a combination of dual and single slot blades.

The MPP200 has a single power source and can hold two single slot encoder blades or one dual slot blade.

Each Media Processing Platform will incorporate a growing family of modules to support transport, switching, transcoding and monitoring of IPTV.

MPP1700



MPP200





AVN220

MPEG-2 standard-definition encoder blade

SPECIFICATIONS

Input/Output

Audio connector provides input for right/left, balanced and unbalanced audio

S-Video connector provides input for a Y/C video cable

CVBS connector provides input for composite video sources

RCA type composite connections via adapter

Serial Connector (RJ-45) allows RS-232C (full duplex, no handshaking) and RS-422 (full duplex) communication

Video Encoding

MPEG-2 Compression

1.5 Mbit/s to 15 Mbit/s

Video Resolutions

NTSC	PAL
720x480	720x576
480x480	480x576
352x480	352x576
352x240	352x288

Closed Captioning CC

Supports EIA-608



Audio Encoding

MPEG-1 Layer II stereo

256kbps to 384kbps

Dimensions/Weight

(W x D x H)

20 x 174 x 130 (.78" x 6.85" x 5.11")

220g or .49 lbs. (approximate)

Power

100V - 240V AC, 4.75 watt

IEC C13/C14

Environmental

Operating Temperature -10°C to 50°C (14°F to 122°F)

Compliance

CE, UL Listed I.T.E E257717

EMC: FCC Part 15 Class A

[MPP200] Class A, EN55022

[MPP1700] Class A, EN55022

EN61000-3-2, EN61000-3-3,

EN55024

SAFETY: EN60950-1

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 indicates the state of the video input signal when a valid video source is detected and blinks at a speed relative to the encoded bit rate when the unit is properly encoding video

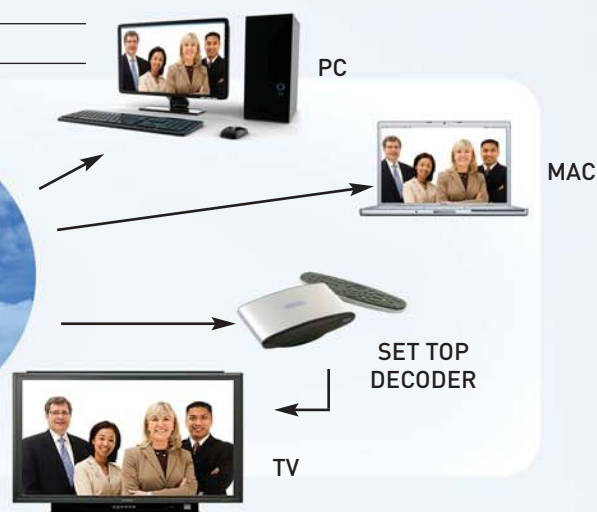
Includes

Limited 12-month product warranty

One RCA-to-BNC adapter, female-to-male

One Weidmuller terminal block connector for audio connections

PackeTV™ software and product documentation available for download from www.vsicam.com



MPP1700 - Multi-slot chassis for AVN-series encoder blade

Capacity

Holds up to 17 AVN 220/420/422 encoder blades or up to 8 AVN441 or AVN443 blades, or a combination

Requires 1 or 2 PSA200 power supplies

Dimensions

(W x D x H) 482.6 x 241.3 x 133.4
(19" x 9.5" x 5.25")
3 RU (rack units) high

Weight

1130g or 2.5 lbs. (approximate)

Power

AC Input: 100-240 V~ (VAC), 3A; 50-60 Hz

Rating Information: 100-240V~, 50-60 Hz, 3A

Fuse Rating: 250V, 3.15A, SlowBlow
Double pole/neutral fusing.

IEC C13/14

Compliance

CE, UL Listed I.T.E. E257717

EMC: FCC Part 15 Class B

Includes

US IEC Power Cable

RS-232 cable

Optional

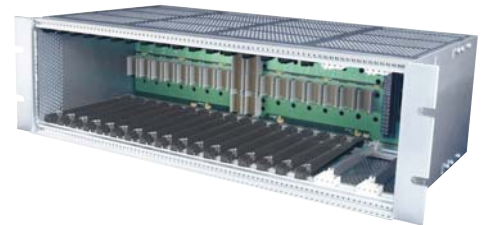
PSA200 power supply (one or two)

Unbalanced audio cable for AVN series blades

Single blanker plate

Double blanker plate

Extended Product Warranty



MPP200 - 2-slot chassis for AVN-series encoder blade

Capacity

Holds 1 or 2 AVN 220/420/422 encoder blades or 1 AVN441 or AVN443 blade

Dimensions

(W x D x H)
142.5 x 196.3 x 43.2
(5.61" x 7.37" x 1.74")
1 RU (rack unit) high

Weight

1130g or 2.5 lbs. (approximate)

Power

External power supply 5V DC, 4A (power brick)

2 pin jack w/ screw locks

Compliance

CE, UL Listed I.T.E. E257717

EMC: FCC Part 15 Class B

Includes

DC Power Supply

US IEC Power Cable

RS-232 Cable

Optional

Unbalanced audio cable for AVN series blades

MPP200 Rack Mount Kit

Extended Product Warranty



ORDERING INFORMATION

AVN220 - MPEG-2 SD Video/Audio encoder blade with Composite and S-Video inputs and IP output

Available Options:

MPP200 - 2-slot chassis with external power supply - holds 1 or 2 AVN220 encoding blades

MPP1700 - Multi-slot chassis with one PSA200 power supply - holds up to 17 AVN220 blades