

Advanced • TV™ Series



AV4001 ATSC VIDEO ENCODER



OFFERING INDUSTRY-LEADING BROADCAST SOLUTIONS— EMPOWERING BROADCASTERS TO DO MORE WITH LESS

The LINEAR AV4001 Multi-Channel Video Encoder with Multiplexer was designed to provide a cost effective means to enable a TV station to convert multiple video and audio feeds into a single digital ASI stream for ATSC broadcast. The encoder can process one high definition (HD/SDI) channel with stereo audio or four standard definition channels (NTSC or Digital) with stereo audio or a combination of one HD and two standard definition channels (NTSC or Digital).

The AV4001 encoder is easily configured via Ethernet using a standard web browser. The AV4001 has a static PSIP application that allows you to begin operation quickly. It also has a built-in video switch for other custom applications, e.g. the Emergency Alert System.

Not just digital. Better digital.™

Contact us today for more information.

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FEATURES

- ▲ **Live Preview*** The AV4001 Multi-Channel Video Encoder provides live preview of all channels in the mode selected. Live preview is always enabled—no additional configuration is necessary. Post-processed video and channel specific information is displayed, including Video/Audio PIDs, Video Source (Analog/Digital), Audio stream (AC-3/None), Video Format and current Video bit rate.
- ▲ **Visual Status Indicators (LED)** The condition of the Encoder is displayed on the front panel via a LED. When the light is green the unit is powered on and the encoder is operational. If the LED displays red then an over temperature condition has occurred and the encoder will shut down.
- ▲ **Configuration Interface** The AV4001 is easily configured using a standard web browser. Below is a sample page from the configuration interface.
- ▲ **PSIP** The AV4001 Multi Channel Video Encoder and Mux has static PSIP capability built in. Included is an application for generating a PSIP table and converting it to a file. This file can then be uploaded to the MCVE. Update the PSIP table as frequently as needed.
- ▲ **Video Switch (EAS)** The encoder comes enabled with an internal video switch that can be used to provide one channel to any or all video and audio channels. You can use your current single channel Emergency Alert System equipment to broadcast to all channels simultaneously.

*Live preview requires an external monitor or TV that is equipped with a DVI input port and must be capable of 1280x720 resolution or higher.



TECHNICAL SPECIFICATIONS

Power/Input

115 V / 230 VAC, 60 Hz / 50 Hz, 184 Watts

Fuse: 250 V, 3.0 A, Slow-blow (Note: Replace only with same fuse type and rating)

Inputs

Four Analog NTSC Video Inputs via BNC Connectors with Four Analog Audio Inputs (L/R, +4 dBu) via Removable Screw Terminal Connectors

Four Digital SD-SDI Video Inputs via BNC Connectors with Digital Audio

One Digital HD-SDI Video Input via BNC Connector with Two Additional Video Inputs (Analog or Digital)

Outputs

One ASI Output: BNC Connector

10/100 Ethernet for Web Page Access

DVI-D Connector for Live Preview of All Configurations

One ASI Input (Factory use only)

Environmental

Operating Temperature: 0C (32F) to 50C (122F) Ambient

Storage Temperature: -30C (-22F) to 80C (176F)

Powered Unit Thermal Shutdown 65C (~150F)

Humidity, Operating and Storage: 95% Non-condensing



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