HD Blaster SDI+HD-SDI/ASI+IP™

Features
- Full setup support from DVEO and USA support office
- Maximum 4 channel encoder and TS-Mux
- Inputs:
  - HD-SDI: One HD-SDI input plus two additional video inputs (HD, SD or analog)
  - SD-SDI: Four digital SD-SDI inputs
  - Analog (Composite): Four analog (CVBS) NTSC inputs
- Audio Inputs:
  - Analog: Up to 4 stereo pairs
  - Digital: Embedded Audio, AES/EBU
- Output: DVB-ASI, SMPTE-310M or IP (100/1000 Base-T)
- Multiple video format compatibility including 1080i, 720p and 480i
- PID filtering
- Generates static PSIP Tables and locates PIDs at desired locations
- VBI Closed Caption processing
- Front panel controls and Web-based management
- Quality NTT® hardware encoder chip

Applications
- Major Medium and Small Market "call letter" Broadcast
- Cable system mux
- Electronic News Gathering (ENG)

Overview
The HD Blaster SDI+HD-SDI/ASI+IP™ multi-channel MPEG-2 video encoder with multiplexer was designed to provide a cost effective way to enable broadcasters to convert multiple video and audio feeds into a single digital ASI stream for ATSC broadcasts. The encoder can encode 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 system also features ASI or IP output, which makes it ideal for distribution between stations using IP, CATV and IPTV broadcasting, and for high-end video surveillance solutions.

The HD Blaster provides live preview of all channels in the mode selected. 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. The HD Blaster 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 HD Blaster. Update the PSIP table as frequently as needed.

The HD Blaster is easily configured via Ethernet using a standard web browser.
**Application Example**

**Specifications**

**Inputs**
- **HD-SDI:** One HD-SDI input (embedded PCM audio) with two additional video inputs (analog or digital)
- **SD-SDI:** Four digital SD-SDI inputs with embedded PCM audio
- **Analog:** Four analog (CVBS) NTSC inputs
- **Connectors:** BNC 75 ohm
- **Encoding:** MPEG-2
- **Profile/Level:** MP@HL, MP@ML, SP@ML
- **Format:** 1080i, 720p, 480i
- **Frame Rates:**
  - 1080i: 29.97 (SMPTE 274M)
  - 720p: 59.94 (SMPTE 296M)
  - 480i: 29.97 (SMPTE 125M)
- **Audio:**
  - **Analog:** 4 stereo pairs
  - **Digital:** Embedded Audio, AES / EBU
- **Audio Encoding:** MPEG-1 Audio Layer II
- **Optional:** Dolby® Digital Pro Encoder
- **Input-level Adjustment:** Available (-20dB - +20dB)
- **VBI Closed Caption**

**Outputs**
- **Type:** MPEG-2 TS
- **PSIP:**
  - Internal Static PSIP Generator
  - External Dynamic PSIP Generator Interface (DVB-ASI / SMPTE310M)
- **Output Interface:**
  - TS-MUX Out: DVB-ASI / SMPTE310M, 100 / 1000 Base-T
  - (Slot Out: DVB-ASI / SMPTE310M)
- **Synchronous Signal:** External Black Burst or Tri-Sync
- **Test Signal:**
  - Video: Color Bar
  - Audio: 1 kHz Sine Wave

**Physical & Power**
- **Power:** AC 100 to 240V, 50Hz / 60Hz
- **Dimensions:** 2 RU 19 inch rack: 17” (W) x 17.8” (D) x 3.45” (H)
- **Weight:** 30.8 lbs (14 kg)
- **Operating Temp.:** 0°C (32°F) to 50°C (122°F) ambient
- **Storage Temp.:** -30°C (-22°F) to 80°C (176°F)
- **Humidity:** 95% non-condensing
- **Conformity:** UL, CSA

**Ordering Info**

HD Blaster SDI+HD-SDI/ASI+IP
HD Blaster SDI+HD-SDI/ASI+IP/D – Optional Dolby® Digital Pro Audio encoding

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