

# HD Blaster SDI+HD-SDI/ASI+IP™

Professional Grade, Superb Quality, NTT® Encoder Chip Based, Extremely Reliable, Remotely Manageable, MPEG-2 HD and SD Multi Channel Video Encoder and Self Contained, Full Featured Transport Stream Multiplexer with ASI and IP Outputs and SMPTE 292M HD-SDI, SMPTE 259M SD-SDI, and Analog (Composite) Inputs. Compliant with all North American ATSC Broadcast Resolutions. Supports Dolby® AC-3 and EIA-608 and EIA-708 Closed Captioning and Static and Dynamic PSIP. Encodes and Multiplexes Single HD-SDI Input with up to three SD-SDI or NTSC Inputs. Outputs Super Stable, Super High Quality, 19.3 Mbps ATSC TS Stream via ASI, IP, or SMPTE 310M Output. A Superb Video Encoder based on NTT Chipset.



Front



Back



## 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.



Computer Modules, Inc.

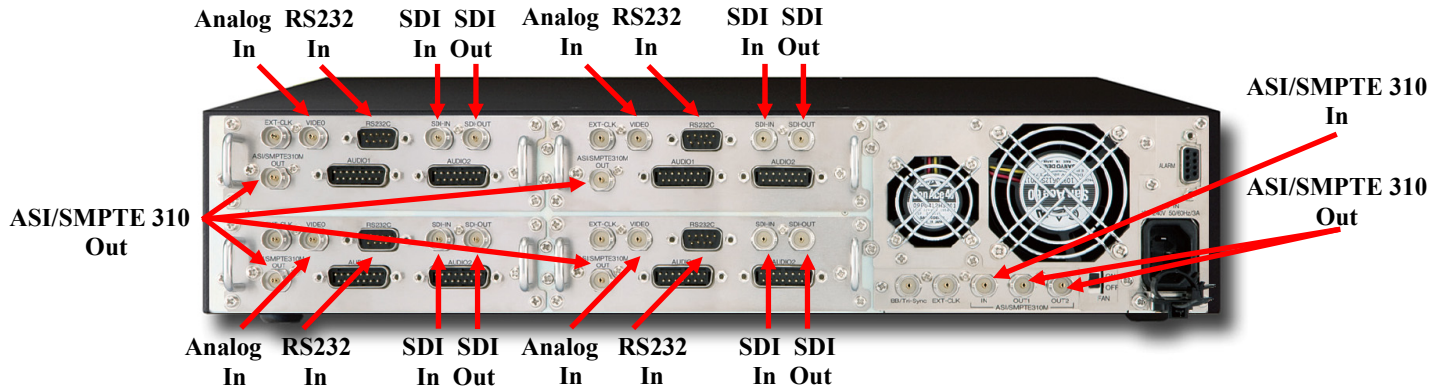
11409 West Bernardo Court

San Diego, CA 92127

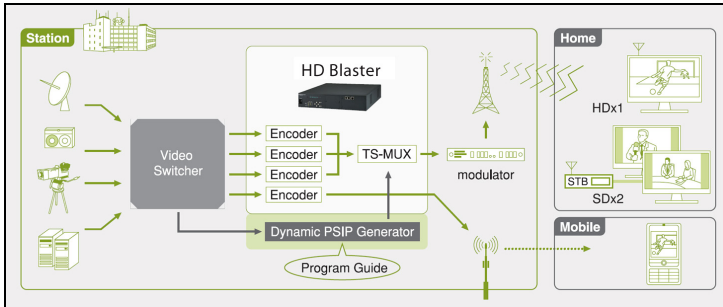
Tel: 858-613-1818 Fax: 858-613-1815

[www.dveo.com](http://www.dveo.com)

## Rear View



## 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) 432 mm (W) x 452 mm (D) x 87.7 mm (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