

HDE-8C-QAM

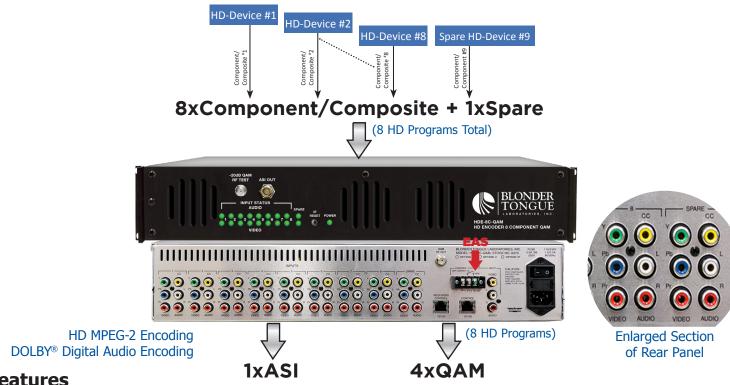
MPEG-2 HD ENCODER

8xComponent/Composite to 4xQAM

HDE-8C-QAM (MPEG-2 HD Encoder: 8xComponent/Composite to 4xQAM) accepts up to eight analog programs from any of the following inputs: 8xComponent and 8xComposite. The encoder is equipped with a spare input (9th input) to replace any one of the primary eight inputs in the event of a failure.

The encoder digitizes, MPEG-2 encodes each input into a high-definition stream, multiplexes the resulting eight streams, and then modulates them onto four adjacent QAM channels in the 54-1002 MHz range (CATV 2-158). Any one of the four OAM outputs is also available in ASI format.

The encoder supports Dolby® Digital audio encoding, and Closed Captioning (EIA-608) for each of the eight encoded programs. It is also equipped with an Emergency Alert System (EAS) interface consisting of a composite video and L/R audio program input. EAS triggering is via a 5-12 VDC input or dry contact closure available from most EAS receivers. A front-panel RF test point allows for monitoring/testing of the QAM output without service interruption. Comprehensive remote monitoring and control is accomplished using any standard Web browser via a rear-panel 10/100Base-T Ethernet connection.



Features

- Accepts up to 8 programs from any of the following inputs: 8xComponent and 8xComposite
- Supports additional 1 spare input to replace the failed input
- Digitizes, MPEG-2 encodes, and multiplexes up to 8 inputs into 4 QAM output channels (2 programs per QAM channel)
- Provides any 1 of the 4 QAM output streams in ASI format
- Configurable to ITU-T J.83 Annex A and B digital QAM formats
- Provides comprehensive GUI-based monitoring and control via standard Web browsers
- Provides a front-panel RF test point (at 20 dB below primary QAM output)
- Equipped with EAS interface (Analog Video + L/R Audio) and triggering compatible with all EAS receivers
- Supports Real-time Dolby® Digital audio encoding
- Supports Closed Captioning EIA-608 for each of the 8 encoded programs
- Supports user-defined PSIP configuration

Ordering Information

Model Stock # **Description**

HDE-8C-QAM 8xComponent + 8xComposite + 1xSpare inputs; 4xQAM + 1xASI outputs; EAS compatible 6370

> **Rev:** 060915 Dolby® is a registered trademark of Dolby Laboratories.

Specifications

Input

Component Primary Connectors: Spare Connectors: Video Resolution: Video Aspect Ratio:	8 sets each 3x RCA for Video (Y, Pb, Pr) 8 sets each 2x RCA for Analog Audio (L, R) 3x RCA for Video (Y, Pb, Pr) 2x RCA for Analog Audio (L, R) 480i, 720p, & 1080i 4:3 & 16:9
Composite Video Primary Connectors: Spare Connectors: Video Resolution:	8 sets each 1x RCA for Video (Y) 8 sets each 2x RCA for Analog Audio (L,R) (shared with component connectors) 1x RCA for Video (Y) 2x RCA for Analog Audio (L,R) (shared with component connectors) 480i
EAS (Emergency Alert System) Connectors: Trigger Mechanism:	3x RCA (Video, Audio L & R) 5-12 VDC & Dry Contact Closure (Terminal Strip)

Encoding Profile	
Video Output Format: Chroma: Resolution: Frame rate: Aspect Ratio: GOP Structure: Transport Rate:	4:3 & 16:9 I & P frames (user-selectable) Variable (user-selectable)
Video Bit Rate: Video Pre-filter: Audio Output Format: Sampling rate:	Variable (user-selectable) Variable (user-selectable) Dolby® Digital 48 kHz
Closed Captioning Component: Composite:	Variable; 128-320 Kbps (user-selectable) EIA- 608; 1x RCA (CC) EIA-608

Output

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General

Dimensions (W x D x H):	19.0 x 19.5 x 3.5 inches (483 x 495 x 89 mm)
Power:	110 - 230 VAC, 50/60 Hz (Fuse: 4.0A, 250 VDC, Slo Blo)
Power Dissipation:	~60 W (max)
Weight:	~15 lbs (6.8 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensing
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensing

Alarms/Monitoring/Control

	16x Input Status LEDs (Video 1-8; Audio 1-8) 2x Spare LEDs (Video & Audio) 1x Power LED 1x "F" Female RF Test Port 1x IP Reset button
Remote Monitoring/Control:	GUI-based menu via Web browser (1x RJ45 connector; 10/100Base-T)

Related Products

Model	Description
HDE-4S-QAM	MPEG-2 HD Encoder; 4xHD-SDI + 4xComponent inputs; 4xQAM + 4xASI + 4xGigE outputs; EAS compatible; 1RU
HDE-CHV-QAM	MPEG-2 HD Encoder; 1xComponent/HDMI/VGA/Composite inputs; 1xQAM + 1xASI + 1xIP outputs
HDE-CSV-QAM	MPEG-2 HD Encoder; 1xComponent/HD-SDI/HDMI/VGA/Composite inputs; 1xQAM + 1xASI + 1xIP outputs
HDE-2H/2S-QAM	MPEG-2 HD Encoder; 2xHDMI + 2xHD-SDI + 2xComponent/Composite inputs; 4xQAM + 4xIP + 4xASI outputs; EAS; 1RU