

HDE-HVC-PRO

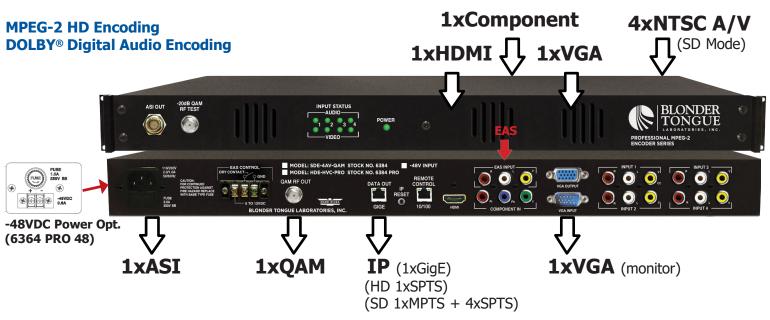
Professional MPEG-2 HD/SD Encoder

The **HDE-HVC-PRO** is especially designed to deliver superior motion optimization for programming, such as fast-paced live sporting events. The unit is configurable in either HD or SD mode via its web interface.

HD Mode: Accepts one (1) program from any of the following inputs: HDMI, VGA, Component + Composite

SD Mode: Accepts up to four (4) programs in NTSC baseband A/V

The **HDE-HVC-PRO** can simultaneously deliver 1xQAM, 1xASI, and IP (GigE; HD 1xSPTS; SD 1xMPTS + 4xSPTS) with low-latency of 250 msec.



Features

• **HD Mode:** Accepts one program from any of the following inputs: 1xHDMI (unencrypted), 1xVGA, 1xComponent, and 1xComposite

• **SD Mode:** Accepts up to four programs in NTSC baseband A/V format

- Simultaneously delivers the following outputs: 1xQAM, 1xASI, and IP (**HD**:1xSPTS; **SD**:1xMPTS+4xSPTS)
- 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)
- Configurable to ITU-T J.83 Annex A and B digital QAM formats
- Equipped with EAS interface (Analog Video + L/R Audio)
- Supports Real-time Dolby® Digital audio encoding
- Supports Closed Captioning EIA-608
- Supports user-defined PSIP configuration

Ordering Information

Model	Stock #	Description
HDE-HVC-PRO	6364 PRO	1xHDMI/VGA/Component/Composite inputs; 1xQAM + 1xASI + IP outputs
	6364 PRO 48	Professional Series MPEG-2 HD Encoder; -48 VDC Power

Made in U.S.A.

 $\operatorname{\mathsf{Dolby}}\nolimits \ensuremath{\mathbb{R}}$ is a registered trademark of Dolby Laboratories.

Rev: 060517 Blonder Tongue is ISO 9001:2015 Certified

Call Us: 954.427.5711 Toll Free: 888.293<u>.5856</u>

Specifications

Input

HD Mode:

HDMI Connectors: Video Resolution: HDCP Encryption: Audio:	1x HDMI 480i, 720p, & 1080i Not supported Embedded PCM & pass-through Dolby® Digital only
VGA Connectors: Video Resolution: Audio:	2x Female VGA (Input + Loop-through Output) 640x480 @ 60 fps 800x600 @ 60 fps 1024x768 @ 60 fps 2x RCA for Analog Audio (L, R)
Component Connectors: Video Resolution: Video Aspect Ratio:	3x RCA for Video (Y, Pb, Pr) 2x RCA for Analog Audio (L, R) 480i, 720p, & 1080i 4:3 & 16:9

SD Mode:

NTSC		
	Connectors:	4x RCA for Analog Video 4 sets each 2x RCA for Analog Audio (L, R)
	Video Resolution:	480i

HD/SD Mode:

EAS (Emergency Alert System)	
Connectors:	3x RCA (Video, Audio L & R)
Trigger Mechanism:	5-12 VDC & Dry Contact Closure (Terminal Strip)

Video Encoding Profile	
Output Format: Chroma: Aspect Ratio: GOP Structure: Transport Rate: Video Pre-filter: Color Space:	4:2:0 4:3; 16x9 (with HD-PRO software upgrade) I & P frames (user-selectable) Variable (user-selectable) Variable (user-selectable)
Supporting Those Formats:	

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Mode	Resolution	Нx	V	Scan	Frames Per Sec.	Recommended Video Bit Rate* (user selectable)
HD	1080i	1920 x 1080		Interlaced	29.97	10-30 Mbps
HD	720p60	1280 x	720	Progressive	59.94	10-30 Mbps
SD	480i	704 x -	480	Interlaced	29.97	3-15 Mbps
*The format (HD or SD), desired quality level, and most importantly the actual content (talking head, text scroll, full action sports, etc), will determine what bit rate is selected.						
Audio Encoding Profile Output Format: Sampling rate: Bit rate:			48 kł	/® Digital Hz ole; 128-320 K	bps (user-sele	ctable)

Closed Captioning NTSC: EIA-608; Embedded in NTSC input

Output QAM

QAM	
Connector:	1x "F" Female (Rear-panel)
Modulation:	QAM 16, 32, 64, 128, and 256
Standards:	ITU-T J.83: Annex A and B
DVB Symbol Rate:	Variable; up to 7 MSymbol/sec (MBaud)
Frequency Range:	
Tuning:	
Channels' Bandwidth:	
RF Level:	•
RF Level Adjustment:	+32 to +42 dBmV, 1 dB increment
Frequency Tolerance:	± 0.5 kHz @ 77 °F (25 °C)
	± 5 kHz over 32 to 122 °F (0 to 50 °C)
Frequency Stability: Amplitude Flatness:	\pm 0.25 dB (over 6 MHz channel)
Phase Noise:	
Spurious:	
Broadband Noise:	
Impedance:	
Spectral Inversion:	Auto Recognition
Carrier Suppression:	
Return Loss:	
Signal-to-Noise Ratio (SNR):	40 dB typical
MER:	io ab typical
I/Q Phase Error:	
I/Q Amplitude Imbalance:	Less than 1%
ASI	
Connectors:	1x BNC (Front-panel)
Format:	The Life (From partor)
Standard:	
GigE	
Connector:	1x RJ45 (Rear-panel)
Standard:	1000Base-T Ethernet
UDP/RTP:	Supported (user-selectable)
Encoder Latency:	250 msec
Enough Eutenoy.	200 11000

General

Dimensions (W x D x H):	19.0 x 18.125 x 1.75 inches (483 x 460 x 44 mm)
Power: Stock # 6364 PRO: Stock # 6364 PRO 48:	110-230VAC, 60/50 Hz (fuse 2.0A, 250V, SloBlo) -48 VDC (Fuse: 1.0A, 250V, SloBlo)
Power Dissipation:	~40 W(max)
Weight:	~10 lbs (4.5 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

Local Monitoring: Local Control:	8x Input Status LEDs (Video 1-4; Audio 1-4) 1x Power LED 1x "F" Female RF Test Port 1x IP Reset button
Remote Monitoring/Control:	GUI-based menu via Web browser (1x R45 rear-panel connector; 10/100Base-T)

Related Products

Model	Stock #	Description
HDE-4S-PRO	6372	4xHD-SDI + 1xSpare inputs; 4xQAM + 4xIP + 4xASI with EAS
	6372 LL	HDE-4S-PRO with Low Latency option
	6372 48	HDE-4S-PRO with -48 VDC option
	6372 48 LL	HDE-4S-PRO with -48 VDC and Low Latency option
HDE-4S-LLOPT	6372 LIC	Low Latency option (only) for HDE-4S-PRO; Software license key

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