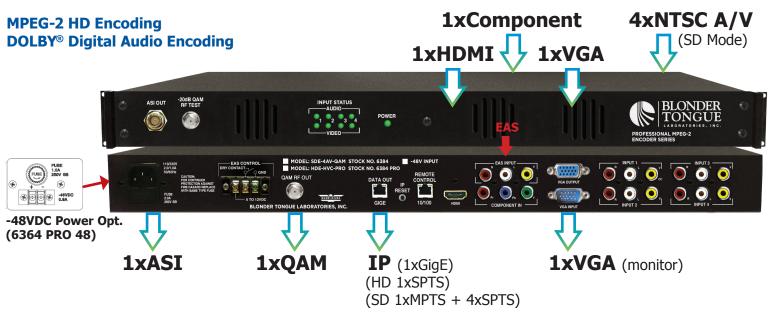


# SOLUTIONS FOR ALL YOUR APPLICATIONS

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**

ModelStock #DescriptionHDE-HVC-PRO6364 PRO1xHDMI/VGA/Component/Composite inputs; 1xQAM + 1xASI + IP outputs6364 PRO 48Professional Series MPEG-2 HD Encoder; -48 VDC Power

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# **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:	ISO/IEC 13818-2 MPEG-2 (MP@ML, MP@HL)
	Aspect Ratio:	4:2:0 4:3; 16x9 (with HD-PRO software upgrade) I & P frames (user-selectable)
	Transport Rate:	Variable (user-selectable) Variable (user-selectable) Variable (user-selectable)
	Color Space:	Variable (user-selectable) YCbCr and RGB

Supporting These Formats:

Mode	Resolution	Нх	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:			Dolby® Digital 48 kHz Variable; 128-320 Kbps (user-selectable)			
Closed Captioning NTSC:		EIA-608; Embedded in NTSC input				

## Output

QAM	
Connect	
Modulati	
Standar	
DVB Symbol Ra	
Frequency Ran	
Tuni	
Channels' Bandwid	01112
RF Lev	
RF Level Adjustme	
Frequency Tolerar	
Frequency Stabil	
Amplitude Flatne	
Phase No	
Spurio	
Broadband No	y e abe (@ v ie abiit eachat iereit, eie i inz baitaitait)
Impedar	
Spectral Inversi	
Carrier Suppressi	
Return Lo	
Signal-to-Noise Ratio (S	
	ER: 40 dB typical
I/Q Phase Er	
I/Q Amplitude Imbalar	ce: Less than 1%
ASI	
Connecto	rs: 1x BNC (Front-panel)
Forn	
Standa	rd: ETSI EN 50083-9
GigE	
Connect	or: 1x RJ45 (Rear-panel)
Standa	
UDP/R	TP: Supported (user-selectable)
Encoder Latency:	250 msec

#### General

<b>Dimensions</b> (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)
<b>Operating Temperature:</b>	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
<b>Operating Humidity:</b>	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 RJ45 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		Low Latency option (only) for HDE-4S-PRO; Software license key

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