



DRAKE PEG PLUS

MPEG-2 OR H.264 DIGITAL VIDEO PEG CHANNEL ENCODER



KEY FEATURES

- » Built-in watchdog timer with system reboot capability
- » VLAN and QoS support for streaming and traffic management
- » Unicast and multicast capabilities
- » ATSC PSIP tables support
- » User-defined PID configuration
- » DVB Service information table generation (NIT+SDT)
- » Field-upgradable firmware
- » Separate Management port and streaming port
- » Configuration and shutdown control via HTTP server UI and programmable API

PRODUCT OVERVIEW

The **PEG PLUS** is a stand-alone digital video PEG channel encoder capable of encoding two HD or SD streams of the same content in either MPEG-2 or MPEG-4/H.264 formats. The encoder features a single SD/HD-SDI or composite video input, and an IP-encapsulation output via a single SFP Ethernet port.

Audio options include selectable SDI PCM-embedded audio or analog left/right audio, offering compression choices of Dolby® Digital, MPEG1-Layer 2 stereo, or AAC stereo. A separate RJ45 10/100 Ethernet port is provided for control and monitoring.

Utilize the Zixi output protocol, a UDP-based video-optimized platform, for smooth streaming of H.264 content over unmanaged networks, including the public internet. This robust solution equips professional broadcasters, sports networks, and service providers to effortlessly ingest and transport broadcast-quality video through standard IP networks.

ORDERING INFORMATION



MODEL	STOCK#	DESCRIPTION
Drake PEG PLUS	1002613B	MPEG-2 or H.264 HD PEG Encoder with HD-SDI or Composite Input and IP Output; Zixi output protocol available
Drake PEG-RP-2	1002644B	Rack Mount Panel for (2) PEG PLUS units

DRAKE PEG PLUS

SPECIFICATIONS



INPUT

Video Inputs	1x RCA Composite; 1x BNC SD/HD-SDI
Audio Inputs	1x BNC SDI (PCM-Embedded Audio); 2x RCA (L, R) - Analog Audio
Supported	Closed Caption Audio Gain Adjustment
Control	1x Front Panel RJ45 (10/100)

VIDEO

Video Resolution	480i (640x480 / 720x480 @ 30 FPS) 720p (1280x720 @ 60 FPS) 1080i (1920x1080 @ 30 FPS) AUTO-SCAN for Input Resolution
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AUDIO

Audio Format	L-PCM (IEC-60958) at up to 192 kHz
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ALARMS & MONITORING

Local Monitoring	1x Power LED (bicolor) 1x Input LED (bicolor) 1x Encoding LED (bicolor) 1x Output LED (bicolor)
Local Control	1x IP Reset Button
Remote Monitor/Control	1x RJ45 (10/100 Base-T) GUI-based menu via standard web browser

GENERAL

Dimensions (W x H x D)	8.7 x 2.0 x 7.6 in (221 x 51 x 193 mm)
Form Factor	Desktop (rack panel sold separately)
Power Requirements:	External Power Supply Input 100/120VAC, 60Hz Output +5VDC @ 4.0A
Power Consumption	35 W (is consumption = dissipation?)
Weight	1.5 lbs (0.68 kg)
Temperature Rating	32 to 122 °F (0 to 50 °C)

OUTPUT

Connectors	1x SFP Module Port (Plug-In sold Separately)
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SPTS STREAM PROTOCOLS

Standard	ISO/IEC 13818-1 Systems
Profiles	Single
Encoding Type	CBR or Capped VBR
Streams Supported	2
Video Bitrate	2 Mbps to 19 Mbps (0.1 Mbps increments)
Packet Format	UDP SPTS (two HD or SD streams)
Zixi	UDP Transport Stream Protocol

ENCODED VIDEO

Video Resolution	1080p (30 FPS); 1080i (60 FPS); 720p (30, 60 FPS); 480i (30, 60 FPS)
Video Format	MPEG-2; H.264 (AVC)
Video Adjustments	Brightness, Contrast, Hue, Saturation
H.264 Profile Support	Baseline, Main, High

ENCODED AUDIO

Audio Formats	Dolby® Digital AC3, AAC, or MPEG1-Layer 2
Audio Output Bitrates	128, 192, 224, or 384 Kbps

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I/O OVERVIEW



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