

PEG PLUS

HD PEG Channel Encoder with HD-SDI or Composite Video, L+R Audio Input / IP Output

R.L. Drake's **PEG PLUS** encoder is a stand-alone MPEG-2 or H.264 digital video PEG channel encoder with a single SD/HD-SDI, or composite video with left and right audio input, and an IP-encapsulation output via a single SFP Ethernet port. A separate RJ45 10/100 Ethernet port is provided for control and monitoring. Video encoding is available in MPEG-2 or H.264 and PCM-embedded audio can be encoded to either Dolby® Digital, MPEG1-Layer 2 stereo, or AAC stereo. The PEG encoder is capable of outputting two HD or SD streams in either codec with resolutions of 480i, 720p, and 1080i. Powered by a separate 110V AC power unit, the **PEG PLUS** is a small, modular, desktop model.

The **PEG PLUS** encoder is available with an optional Zixi output protocol that provides the ability to stream content in H.264 format over an unmanaged network, including the public internet. The Zixi UDP based video-optimized protocol provides professional broadcasters, sports networks, and service providers a mechanism to adapt to the public internet using standard IP networks as a way to ingest and transport broadcast quality video.

1 Source of MPEG-2/H.264 Content

via SD/HD-SDI or Composite Video with Left + Right Audio



1 IP-Encapsulated Data Stream

via Ethernet Cable (RJ45 Port)

FEATURES

- Composite video with left and right audio input
- HD-SDI or SD-SDI input
- Encodes 2 HD and SD stream of the same content in either MPEG-2 or MPEG-4 / H.264 formats
- Resolutions of 480i, 720p, or 1080i
- Dolby® Digital, AAC stereo audio, or MPEG1-Layer 2 stereo audio encoding from PCM-embedded audio source
- IP output via SFP port (SFP optional-see back)
- Unicast and multicast capable
- Separate Management port and streaming port
- Field-upgradable firmware
- Configuration and shutdown control via HTTP server UI and programmable API
- Built-in watchdog timer with system reboot capability
- User defined PID configuration
- Supports ATSC PSIP tables
- DVB Service Information table generation (NIT+SDT)
- Desktop model
- SNMP V2

Model	Item #	Description
PEG PLUS	1002613B	HD PEG Encoder with HD-SDI or Composite Video with Left + Right Audio and IP Output
	1002613B Z	HD PEG Encoder with Zixi Option
PEG-RP-2	1002644B	Rack Mount Panel for (2) PEG Encoders

TECHNICAL DATA and SPECIFICATIONS

PEG PLUS HD PEG Encoder with HD-SDI or Composite Video with L/R Audio and IP Output Item # 1002613B

INTERFACE		AUDIO OPTIONS	
VIDEO INPUTS:	SD/HD-SDI BNC Type Input Connection Composite Video RCA Input Connector Closed Caption Support	ENCODER FORMAT:	Dolby Digital, AAC, or MPEG1-Layer 2
AUDIO INPUTS:	SD/HD-SDI Embedded PCM Audio Analog Audio (L, R) 2xRCA Input Connectors Supports Audio Gain Adjustment	OUTPUT BITRATE:	128, 192, 320, or 384 Kbps
		<i>Manufactured under license from Dolby Laboratories</i>	
VIDEO OPTIONS		OUTPUT	
INPUT VIDEO MODES:	480i (640x480/720x480 @ 30FPS) 720p (1280x720 @ 60FPS) 1080i (1920x1080 @ 30FPS) AUTO-SCAN for Input Resolution	VIDEO OUTPUT:	SFP Port IP SPTS (SFP module is optional)
VIDEO FORMAT:	MPEG-2 OR H.264	PACKET FORMAT:	UDP SPTS (2x HD or SD)
VIDEO ADJUSTMENTS:	BRIGHTNESS CONTRAST HUE SATURATION	ZIXI:	UDP transport stream protocol SPTS 1xHD/SD Stream
H.264 PROFILE SUPPORT:	BASELINE MAIN HIGH	PHYSICAL SPECIFICATIONS	
		TEMPERATURE RATING:	0 - 50° C Ambient
		FORM FACTOR:	Desktop Modulator
		DIMENSIONS:	Approximately 7.6" D x 8.7" W x 2.0" H
		WEIGHT:	1.5 lbs
		POWER REQUIREMENTS:	100-120 VAC/60 Hz

Specifications are subject to change without notice or obligation.



Optional SFP Plug-ins (1000 BT copper)

STOCK#	MODEL	DESCRIPTION
1002620	SFP-C-10/100/1000 TRANSCEIVER	10/100/1000BASE-T SFP, RJ-45, 100M, COPPER
1002621	SFP-MM-850-550M	1000BASE-SX SFP, 850NM, 550M, MMF, DDM
1002622	SFP-SMF-1310-10KM	1000BASE-LX SFP, 1310NM, 10KM, SMF, DDM
1002623	SFP-SMF-1550-80KM	1000BASE-ZX SFP, 1550NM, 80KM, SMF, DDM
1002624	SFP-SMF-CWDM-1470NM-80KM	1.25GBASE-CWDM-SFP, 1470NM, 80KM, SMF, DDM
1002625	SFP-SMF-CWDM-1490NM-80KM	1.25GBASE-CWDM-SFP, 1490NM, 80KM, SMF, DDM
1002626	SFP-SMF-CWDM-1510NM-80KM	1.25GBASE-CWDM-SFP, 1510NM, 80KM, SMF, DDM
1002627	SFP-SMF-CWDM-1530NM-80KM	1.25GBASE-CWDM-SFP, 1530NM, 80KM, SMF, DDM
1002628	SFP-SMF-CWDM-1550NM-80KM	1.25GBASE-CWDM-SFP, 1550NM, 80KM, SMF, DDM
1002629	SFP-SMF-CWDM-1570NM-80KM	1.25GBASE-CWDM-SFP, 1570NM, 80KM, SMF, DDM
1002630	SFP-SMF-CWDM-1590NM-80KM	1.25GBASE-CWDM-SFP, 1590NM, 80KM, SMF, DDM
1002631	SFP-SMF-CWDM-1610NM-80KM	1.25GBASE-CWDM-SFP, 1610NM, 80KM, SMF, DDM
1002632-XX	SFP-SMF-DWDM-CHXX-40KM	1.25GBASE-DWDM-SFP, CH. 20-59, 40KM, SMF, DDM
1002633-XX	SFP-SMF-DWDM-CHXX-80KM	1.25GBASE-DWDM-SFP, CH. 20-59, 80KM, SMF, DDM

Last 2 numbers indicate channel number (20-59).

Application Example:

MULTI-POINT DISTRIBUTION

PEG ENCODER LOCALLY ORIGINATED CONTENT

