

Internet Streaming Encoder

IMPULSE 300E

The Impulse 300E is a cost-effective and easy-to-deploy MPEG2 and H.264/AVC encoder for acquiring, compressing and delivering baseband video and audio content. With streaming protocols such as SRT and RIST, its even easier to deliver broadcast content from remote sites or feed existing systems. Dual gigabit Ethernet ports provide infinite flexibility of both management and compressed video interfaces. An intuitive web interface is secured by HTTPS and all network services are user-configurable to ensure security on the open internet.



The Impulse 300E is ideally suited for encoding PEG channels, which have traditionally been delivered by simple devices with lackluster features and performance. The 300E is tailor-made with a small form-factor, powerful ASIC-based encoder and cutting-edge internet streaming protocols that enable better video quality at a competitive price-point.

Key Features

- Encode SD-SDI, HD-SDI and HDMI inputs
- Support for all of today's most common internet delivery protocols, including SRT and RIST
- Pair with a Sencore Impulse 300D for a low-cost end-to-end delivery
- Simple and intuitive webUI for configuration and monitoring
- Automation and remote configuration ready
- Small form factor - 1/3rd RU wide and 1RU tall

Applications

Public, Educational and Governmental (PEG) Encoding

The Impulse 300E is ideally suited for encoding of PEG channels that have traditionally been served by antiquated, feature poor devices. The small form factor, exceptional ASIC-based encoding and cutting-edge internet streaming protocol support allow for better video quality and lower delivery costs of price sensitive channels.

Remote Event Encoding

Small form factor, plug-and-play operation and internet delivery protocol support make the Impulse 300E the ideal choice for encoding remote event feeds. Simply send the Impulse 300E to a remote site, have a technician plug in the cables and the unit is up and running, delivering feeds across the open internet to a remote or cloud headend.

SPECIFICATIONS

Internet Streaming Encoder Impulse 300E

Input Interfaces

SD/HD-SDI:	1x 75Ω BNC SDI SMPTE 259M SMPTE 292M SMPTE 424M
Digital Video:	1x HDMI Type A Connector with positive screw retention
Supported Version:	1.4b
Copy Protection:	HDCP Compliant

Output Interfaces

IP:	
Physical Interface:	2x RJ45, 10/100/1000 Auto-Negotiate
Output Format:	UDP or RTP Constant Bitrate SMPTE 2022-2/CoP3 FEC
IP Encapsulation: Protocols:	1 to 7 TS Packets per IP Packet Unicast & Multicast SRT w/ SRT Hub Integration RIST
IGMP compatibility: TS Bitrate:	Version 1, 2 & 3 250 Kbps to 50 Mbps

Video Processing

Input Codec/Profile:	MPEG-2 up to MP@HL H.264 up to HP@L4.1
Resolutions:	1080p@23.98, 24, 25, 29.97, 30, 50, 59.94, 60 1080i@25, 29.97, 30 720p@23.98, 24, 25, 29.97, 30, 50, 59.94, 60 576p@50 576i@25 480p@30, 60 480i@29.97, 30
Bitrate:	0.5 to 15 Mbps
Output Codec/Profile:	MPEG-2 up to MP@HL H.264 up to HP@L4.1

Audio Processing

Codecs:	Dolby Digital (AC-3) Dolby Digital Plus (E-AC-3) AAC HE-AAC MPEG-1 L2
Number of Services:	2x audio services/PIDs

Pass-through:	Closed Captions (CEA-708)
TS Manipulation	
Table Regeneration:	PAT, PMT

Management:

Connector:	2x RJ-45 10/100/1000 Auto Negotiating
Protocols:	HTTP(S), SNMP and Web API
User Interfaces:	Full control via web GU Full control via intuitive front panel*
Automation Interfaces:	Full status and control via SNMP SRT Hub Configuration and Control* Configurable SNMP traps Web services API Syslog message logging
Firmware Updates:	Via Web GUI

Dimensions/Power

Height:	1 RU, 1.72" (44mm)
Width:	1/3 RU, 5.69" (144.5mm)
Depth:	7.5" (190.5mm)
Power:	100-240 VAC 50/60 Hz
Supplies:	1x AC Internal
Connector:	IEC 320 C14

Environmental Conditions

Operating Temperature:	32° to 122° F (0° to 50° C)
Cooling:	Software regulated fan
Storage Temperature:	-40° to 149° F (-40° to 65° C)
Relative Operating Humidity:	<95% (non-condensing)

Ordering Information

IMPULSE 300E	SD/HD/3G-SDI/HDMI Encoder
SDI2X-MOUNT	1RU Rack Mount Tray Up to 3x SDI2X Units

*Future release



Provided by: Mega Hertz | 800-883-8839 | info@go2mhz.com | www.go2mhz.com

<https://www.go2mhz.com/our-applications-and-solutions/mpeg-encoding-transcoding-hd-sd-mpeg-2-4/>