

Impulse 300D Network Decoder

Network Decoder

Impulse 300D

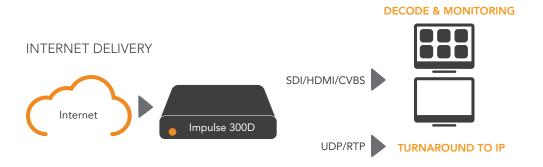


The Impulse 300D is a dynamic approach to the single channel decoder concept. At its core, the 300D is a versatile broadcast video processor, capable of receiving content over traditional facility multicast as well as OTT "internet" sources. The decoder itself offers a large range output ports including SDI, HDMI, and even analog video with RCA stereo for legacy applications. Offering a solid foundation of broadcast-tier features with support up to 4K/UHD via HDMI, the 300D is one of our most cross-compatible appliances in the Sencore portfolio. Use as a stand-alone DIY content delivery or rack-mountable up to three units in 1RU in traditional head-ends.

Key Features

- upport H.265(HEVC), H.264 (MPEG-4), MPEG2 decoding
- ecode signals into 3G-SDI, 2.0 HDMI and CVBS outputs
- ecoding up to UHD/4k resolution on HDMI output and up to FHD resolution on SDI output
- upport of 1 audio PID decoding for MPEG1L2,AAC, AC3 and E-AC3
- upport for all of today's most common internet delivery protocols, including HLS, SRT, RTMP and Zixi
- imple and intuitive webUI for configuration and monitoring
- mall form factor 1/3rd RU wide and 1RU tall

Applications





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SPECIFICATIONS

OUTPUT INTERFACES

SD/HD-SDI/3G-SDI:

1x 75Ω BNC SDI SMPTE 259M SMPTE 292M SMPTE 424M

Digital Video:

1x HDMI Type A Connector with positive screw retention

Supported Version:

Composite Video Output:

1x 75Ω BNC NTSC, PAL

Analog Audio:

2x RCA (L/R)

20

Physical Interface: Output Format:

1x RJ45, 10/100/1000 auto-negotiating

UDP or RTP

Constant Bitrate

IP Encapsulation:

Protocols:

IGMP compatibility: TS Bitrate:

1 to 7 TS Packets per IP Packet Unicast & Multicast

Version 1, 2 & 3 250 Kbps to 30 Mbps

INPUT INTERFACES

Physical Interface: Output Format:

Constant Bitrate

IP Encapsulation:

Protocols:

1 to 7 TS Packets per IP Packet

1x RJ45, 10/100/1000 auto-negotiate

Unicast & Multicast

HLS SRT RIST*

UDP or RTP

Zixi RTMP

IGMP compatibility:

Version 1, 2 & 3 TS Bitrate: 250 Kbps to 30 Mbps AES 128/256

Descrambling:

VIDEO PROCESSING

Codec/Profile:

Resolutions:

MPEG-2 up to MP@HL H.264 up to HP@L4.2 HEVC up to MP@5.1 AVS-P16 (AVS+),

AVS2 Main-10bit Profile@ L 8.2.6

2160p@23.98, 24, 25, 29.97, 30, 50, 60 1080p@23.98,24,25, 29.97, 30, 50, 59.94, 60

1080i@25, 29.97, 30 720p@ 50, 59.94, 60 576i@25

480i@ 29.97

Aspect Ratio: Automatic or manual (4:3 or 16:9)

Bitrate: up to 30 Mbps

AUDIO PROCESSING

Codec/Profile: Dolby Digital (AC-3)

Dolby Digital Plus (E-AC-3)

AAC HE-AAC MPEG-1 L2

Audio Output Formats: Linear PCM

PCM (down mixed for 5.1 Sources) Analog

(down mixed for 5.1 Sources) 48KHz

Audio Sampling Rate: Audio

Volume Leveling: Number of

Services: Ancillary Data Pass-

through:

-12~12 dB

1x audio service/PID

Closed Captions (EIA-608, EIA-708)

MANAGEMENT

1x RJ-45 10/100/1000 Auto Negotiating Connector:

Protocols: HTTP(S), SNMP* and Web API* Full control via web GUI User Interfaces:

Full control via intuitive front panel Automation Interfaces: Full status and control via SNMP*

Configurable SNMP traps * Web services API*

Syslog message logging Via Web GUI Firmware Updates:

Other I/O: 1 x USB 20

> 1 x SD Card Standard Interface LCD x 1, Front button x 6

DIMENSIONS/POWER

1 RU, 1.72" (44mm) Height: Width: 1/3 RU, 5.69" (144.5mm)

Depth: 7.5" (190.5mm) 1.3 lbs (0.6kg) Weight: 100-240 VAC 50/60 Hz Power:

Power Consumption: Max. 9W 1x AC Internal Supplies: IEC 320 C14 Connector:

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)

*Future

ORDERING INFORMATION

IMPULSE-300D

Impulse Decoder HDMI/CVBSoutput, UDP/RTMP/HLS/SRT inputs, Mpeq2/ H.264/H.265 video and MPEG1L2/ AAC

audio decoding SDI output license

IMPULSE 30100 IMPULSE 30200 IP output License IMPULSE 30300 AC3 License IMPULSE 30500 ZIXI license IMPULSE 30600 UHD decoding license

(downconversion & HDMI output)