

Network Decoder

Impulse 300D

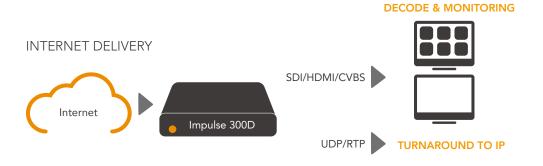


The Impulse 300D is a dynamic approach to the single channel decoder concept. At its core, the 300D is a versatile broadcast video processor, capable of receiving content over traditional facility multicast as well as OTT "internet" sources. The decoder itself offers a large range output ports including 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

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

Applications





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: 2.0

Composite Video Output: $1x 75\Omega$ BNC NTSC, PAL Analog Audio: 2x RCA (L/R)

3 3

Physical Interface: 1x RJ45, 10/100/1000 auto-negotiating

Output Format: UDP or RTP

Constant Bitrate

IP Encapsulation: 1 to 7 TS Packets per IP Packet

Protocols: Unicast & Multicast & IGMP compatibility: Version 1, 2 & 3 TS Bitrate: 250 Kbps to 30 Mbps

INPUT INTERFACES

ΙP

Physical Interface: 1x RJ45, 10/100/1000 auto-negotiate

Output Format: UDP or RTP Constant Bitrate

IP Encapsulation: 1 to 7 TS Packets per IP Packet

Protocols: Unicast & Multicast

HLS SRT Zixi RTMP

IGMP compatibility: Version 1, 2 & 3 TS Bitrate: 250 Kbps to 30 Mbps

Descrambling: AES 128/256

VIDEO PROCESSING

Codec/Profile: 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
Resolutions: 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

5/61@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) Audio Pass-Through (HDMI output)

Audio Sampling Rate: 48KH:

Number of Services: 1x audio service/PID

Ancillary Data Pass-through: Closed Captions (EIA-608, EIA-708)

MANAGEMENT

Automation Interfaces:

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

Protocols: HTTP(S), SNMP

User Interfaces: Full control via web GUI

Full control via intuitive front panel Full status and control via SNMP*

Configurable SNMP traps *

Syslog message logging

Firmware Updates: Via Web GUI Other I/O: 1 x USB 2.0

1 x SD Card Standard Interface

LCD x 1, Front button x 6

DIMENSIONS/POWER

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

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

Power Consumption: Max. 9W
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 30100

IMPULSE 30200

IMPULSE 30300

IMPULSE-300D Impulse Decoder HDMI/CVBSoutput,

UDP/RTMP/HLS/SRT inputs, Mpeg2/ H.264/H.265 video and MPEG1L2/ AAC

audio decoding SDI output license IP output License AC3 License

IMPULSE 30500 ZIXI license
IMPULSE 30600 UHD decoding license

(downconversion & HDMI output)

HENDING INTERFACE

^{*} The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI licensing LLC in the United States and other countries.