

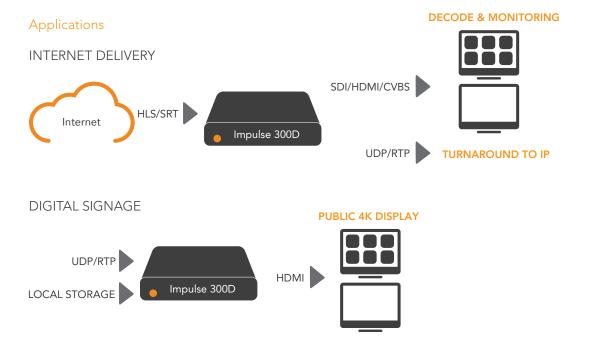
Impulse 300D Network Decoder



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. With the addition of recording and playback through locally inserted USB/SD storage the 300D can also be used for digital signage or ROI content delivery. 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 2 audio PIDs decoding for MPEG1L2,AAC, AC3 and E-AC3
- Support for all of today's most common internet delivery protocols, including HLS, SRT, RIST and Zixi
- Recording and playback from/into USB and SD cards
- Simple and intuitive webUI for configuration and monitoring
- Small form factor 1/3rd RU wide and 1RU tall





C1200 Signal Level Meter

SPECIFICATIONS

OUTPUT INTERFACES

SD/HD-SDI/3G-SDI:

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

NTSC, PAL

2x RCA (L/R)

2.0 1x 75Ω BNC

1x HDMI Type A Connector with positive screw retention

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

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

1 to 7 TS Packets per IP Packet

Unicast & Multicast

250 Kbps to 30 Mbps

Version 1, 2 & 3

Digital Video:

Supported Version:

Composite Video Output:

Analog Audio:

Physical Interface: Output Format:

Constant Bitrate

IP Encapsulation: Protocols:

IGMP compatibility: TS Bitrate:

INPUT INTERFACES

Physical Interface: Output Format: Constant Bitrate

IP Encapsulation: Protocols:

IGMP compatibility: TS Bitrate:

Input redundancy* Descrambling:

VIDEO PROCESSING

Codec/Profile:

Resolutions:

Aspect Ratio:

AUDIO PROCESSING

Codec/Profile:

Audio Output Formats:

Aspect Ratio:

AAC

Linear PCM

Dolby Digital pass-through* PCM (down mixed for 5.1 Sources) Audio Sampling Rate: Audio Volume Leveling:

Ancillary Data Pass-through:

Number of Services:

Analog (down mixed for 5.1 Sources)

-12~12 dB

2x audio services/PIDs AFD (SMPTE 2016)*

Closed Captions (EIA-608, EIA-708)*

OPERATION MODES

Live: Playback*:

Recordina*:

Decoding to HDMI/SDI or CVBS Local: USB Flash, SD Card, In order HDMI/SDI/CVBS or IP outputs Local: USB flash, SD Card

Format: TS, MOV, MP4

Full control via web GUI Full control via intuitive front panel

Syslog message logging

LCD x 1, Front button x 6

1/3 RU, 5.69" (144.5mm)

100-240 VAC 50/60 Hz

32° to 122° F (0° to 50° C)

-40° to 149° F (-40° to 65° C)

Impulse Decoder HDMI/CVBS

MPEG1L2/ AAC audio decoding

(downconversion & HDMI output)

SDI output license

IP output License

UHD decoding license

AC3 License

ZIXI license

output, UDP/RTMP/HLS/RTSP/SRT/RIST inputs, Mpeg2/H.264/H.265 video and

Software regulated fan

<95% (non-condensing)

1 RU, 1.72" (44mm)

7.5" (190.5mm)

1.3 lbs (0.6kg)

1x AC Internal IEC 320 C14

Max. 9W

Web services API*

Via Web GUI

1 x USB 2.0

Circling recording (by time or size of file)

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

HTTP(S), SNMP* and Web API*

Full status and control via SNMP Configurable SNMP traps *

1 x SD Card Standard Interface

MANAGEMENT

Connector: Protocols: User Interfaces:

Automation Interfaces:

DIMENSIONS/POWER

Power Consumption:

Operating Temperature:

Relative Operating Humidity:

ORDERING INFORMATION

Storage Temperature:

IMPULSE-300D

IMPULSE 30100

IMPULSE 30200

IMPULSE 30300

IMPULSE 30500

IMPULSE 30600

ENVIRONMENTAL CONDITIONS

Height:

Width:

Depth:

Weight:

Power:

Supplies:

Cooling:

Connector:

Firmware Updates: Other I/O:

1 to 7 TS Packets per IP Packet Unicast & Multicast

SRT RIST* 7ixi RTMP*

HLS

UDP or RTP

Version 1, 2 & 3 250 Kbps to 30 Mbps

AES 128/256

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

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

Bitrate: up to 30 Mbps

Dolby Digital (AC-3) Dolby Digital Plus (E-AC-3)

HE-AAC MPEG-1 L2

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.

Rev 07-21

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*Future