

IPTV OTT Encoding & Streaming

Software Specifications

Datasheet and Brochure

System Requirements

Processor	Minimum 2GHz. Intel Core i7 8th Generation or newer recommended. See FAQ for detailed recommendations.
RAM	200MB per channel
HDD	500MB
Graphics Card	NVIDIA RTX, Quadro, Tesla, or Ampere video card (optional)
Ethernet NIC	LAN (1 Gbps) and WAN support
Operating System	<ul style="list-style-type: none">- Microsoft Windows 7, 8, 10, or 11 (64-bit) or Microsoft Windows Server 2008 R2, 2012, or 2016 (64-bit) with Visual C++ 2013 Redistributable Package- Linux 64-bit (Ubuntu, CentOS Stream, RHEL, Rocky Linux, Debian) with kernel 4.x or above

Input Stream Formats

Apple HLS

Input Stream Formats

MPEG-TS over HTTP / UDP / RTP

MPEG-DASH

Video webpage (Youtube, twitch, bilibili, etc)

RTMP / RTMPE / RTMPS / RTMPT

RTSP over UDP / TCP

Secure Reliable Transport (SRT)

Newtek NDI

Blackmagic DeckLink Capture Cards thru DeckLink API

FTP / SFTP

MMS over TCP / HTTP

Microsoft DirectShow Compatible Capture / Crossbar Device

- USB Webcam
- Digital (Video) Camera (firewire cable connected)
- PCI-E Video Capture Card (Blackmagic Intensity/Decklink, TBS, Osprey, etc)

Screencast

- Windows GDI
- Linux Video4Linux2 / Alsa Device

Multimedia File

- Audio Files (pcm, wav, mp3, amr, wma, voc, ogg, au)
- Video Files (avi, mpg, mp4, mov, mkv, ts, wmv, asf, 3gp, vob, flv, swf, rm, rmvb, webm)
- Picture Files (bmp, jpg, gif, png, tiff, webp, svg)

Output Stream Formats

RTMP / RTMPE / RTMPS / RTMPT

Output Stream Formats

MPEG-TS (SPTS/MPTS) over HTTP / UDP / RTP

HTML Web Video

Apple HLS (.m3u8 playlist with MPEG-TS or CMAF segments)

MPEG-DASH (.mpd playlist with CMAF segments)

Newtek NDI

Secure Reliable Transport (SRT)

MJPEG over HTTP

Local/FTP/SFTP File (.mov / .mp4 / .mkv / .mpg / .ts)

Blackmagic DeckLink Playback Cards thru DeckLink API

RTSP

Encodings & Decodings

Audio

- AAC-LC / HE-AAC
- Webm Opus
- AC3 / E-AC3
- MP2 (MPEG-1 Audio Layer II) / MP3
- PCM / G.7xx
- AMR
- Real Audio
- Windows Media Audio

Video

- AV1
- H.265 / HEVC (Main/Main 10/Main SP)
- H.264 / AVC (Baseline/Main/High/High 10/High 4:2:2/High 4:4:4)
- Webm VP8
- Webm VP9
- MPEG-4/Visual
- H.263+/++ (aka H.263-1998/2000)

Encodings & Decodings

H.263
JPEG/MJPEG
MPEG-1 Video
MPEG-2 Video
Real Video
Flash Video
Windows Media Video
On2 VP6

Subtitle

dvb/dvd subtitle
dvb teletext
closed caption (CEA/EIA-608, CEA/EIA-708)
srt/subrip
webvtt
movtext

GPU Acceleration

NVIDIA NVENC / NVDEC / CUVID H.264 / HEVC / AV1 Encoding & Decoding

NVIDIA Video Resizing (NPP Scale)

Intel Quick Sync Video H.264 / HEVC / AV1 Encoding & Decoding

AMD Advanced Media Framework H.264 / HEVC / AV1 Encoding

NETINT Quadra Video Processing Unit Encoding & Decoding

DXVA2 Accelerated Decoding (Available on Windows)

Output Video Resolution

UHD (2K/4K)

HDTV (1280×720/1920×1080)

Output Video Resolution

SDTV (720×576)

4CIF (704×576)

VGA (640×480)

CIF (352×288)

QVGA (320×240)

QCIF (176×144)

SQCIF (128×96)

Custom/User-specified (H.263+/H.264/MPEG-4/HEVC)