APIs to encode play & analyze video



Prepare your content at high speed and the lowest bitrate. Deliver content in the highest quality. All while optimizing your video workflows for scalability and reliability using Bitmovin's next-gen VOD Encoder.

HIGH QUALITY

Improve the quality of experience for all your viewers with our Per-Title encoding. It automatically analyzes each video and creates the ideal adaptive bitrate ladder (ABR).

In addition, with our multi-codec streamina approach, you can match codecs to browsers dynamically with 50% bandwidth savings or more and deliver the best quality possible based on the viewers' browser.

Speaking of codecs, we pioneered cloud implementations of AV1 and VVC codecs, making 4K and HDR video possible at lower bandwidths (<700kbps!).

Besides supporting multiple HDR and immersive audio formats, we are the first **Dolby Pro Partner** to integrate Dolby Vision and Dolby Atmos in the cloud.

EASE OF USE

Our next-gen VOD encoder enables quality focused features such as Per-Title, HDR, multi-pass, AV1 to be implemented in minutes.

Simple Encoding API delivers the best video experience with little to no configuration.

Encoding jobs can run on AWS, GCP, or Azure within Bitmovin's managed cloud or on your own cloud resources. Spikes in demand and large batches of content run quickly and efficiently in the cloud. And you pay only for resources used.

Forrester's Total Economic Impact™ Study found that Bitmovin's Encoding solution delivered a 355% ROI over the course of three years. Offering the optimal balance between quality, performance, and cost.

ALWAYS INNOVATIVE

Recognized with a **Technical Emmy** Award, Bitmovin pushes the entire industry forward while making the latest advancements easy to use.

Per-Title Encoding + 3-Pass Encoding = Best Quality of Experience (QoE) for viewers and lower Total Cost of Ownership (TCO) by 30%. Now possible with one simple API call.

Per-Shot Encoding takes it to the next level. Beta tests indicated up to 20% savings when using Per-Title and Per-Shot encoding compared to using traditional fixed segment lengths.

Experience Super-Resolution with machine-learning based upscaling that prepares and boosts the quality of SD content for 4K screens.

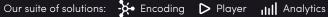
"What was particularly impressive was that <u>Bitmovin performed well with all types of videos</u>."

– Jan Ozer, Streaming consultant and author of 'Choosing a Per-Title Encoding Technology'

Support and community matters – plans tailored to your business and workflow

Bitmovin helps guide developers through integration, launch, upgrades, and optimizations. Starting with easy-to-use products, documentation, and a global community. Our team of video experts provides a range of options to meet your exact needs, from starter packages to enterprise plans with dedicated account management, including feature implementation & 24/7 Slack support and special event monitoring.











Features and capabilities supported

	INPUT FORMATS
•	MPEG-1 Video
	MPEG-2 Video
	MPEG-4 Video
	H.261
	H.262
	H.263
	H.264/AVC
	H.265/HEVC
	VP6
	VP8
	VP9
	DNxHD
	Theora
	XDCAM
	XDCAM HD22
	XDCAM IMX
	DV
	DVCPRO
	DVCPROHD
	ProRes
	AVCHD
	AVCIntra
	Cineform HD
	Intel Indeo
	JPEG2000

INPUT FILE FORMATS
MP4
MKV
MOV
AVI
FLV
MPEG-2 TS
MPEG-2 PS
MXF
LXF
GXF
3GP
Webm
MPG
QuickTime
WMV

LIVE INPUTS
Redundant RTMP
Zixi
SRT (Caller and Listener mode)
Live ad cue-point insertion

	INPUT AUDIO CODECS
	AAC
	MP3
	DTS Express
	FLAC
	WMA
	Vorbis
	PCM
	WAV
	Dolby Atmos (DAMF and ADM)
Ī	Dolby Digital (AC3)
	Dolby Digital Plus (E-AC3)

DRM
Widevine
PlayReady
Marlin
FairPlay DRM with HLS
DASH ClearKey encryption
SAMPLE-AES, AES-128 encryption (HLS)
Multi-DRM
Forensic Watermarking

CLOSED CAPTION AND SUBTITLES	
WebVTT	
CEA-608/708	
SRT	
TTML (EBU-TT, SMPTE-TT, IMSC)	
SMPTE-TT	
Burn-in Subtitles	

Object Detection
Super Resolution
FILTERS
Mation Adaptive Deinterland
Motion Adaptive Deinterlace
Denoise Delinerace
<u> </u>
Denoise

MACHINE LEARING

Unsharp Masking Text Overlay

STREAMING PROTOCOLS
MPEG-DASH
Apple HLS
Progressive MP4
Smooth Streaming

OUTPUT AUDIO CODECS
AAC-LC
HE-AACv1
HE-AACv2
MP2
MP3
DTS Express, DTS:HD, DTS:X
Vorbis
Opus
Dolby Atmos
Dolby Digital
Dolby Digital Plus

OUTPUT VIDEO CODECS
MPEG-2 Video (XDCAM HD 422)
MPEG-4 Video
H.264/AVC
H.265/HEVC
VP8
VP9
AV1
VVC

O O T O T T T T T T O K M A T O
MPEG-2 TS
MP4
fMP4
MOV
WebM
CMAF
MXF (XDCAM HD 422)

SUPPORTED STORAGE
AWS S3
Google Cloud Storage
Azure Blob
Generic Object Storage
FTP
SFTP
HTTP/HTTPs
Akamai NetStorage
Aspera
Akamai MSL4 Support







