



# 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 streaming](#) 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 [Bitmovin performed well with all types of videos.](#)”**

– 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.

Start your  
trial today

# 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)  
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

## MACHINE LEARNING

Object Detection  
Super Resolution

## FILTERS

Motion Adaptive Deinterlace  
Denoise  
Crop/Scale/Rotate  
Watermarking  
Audio Mixing  
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

## OUTPUT FILE FORMATS

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

Start your  
trial today

Our suite of solutions:  Encoding  Player  Analytics

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