

10 Best Live Streaming IPTV Encoder 2025



Start your trial today

Live streaming is not only a trend but a standard as well by 2025. Streaming has become an essential element of the communication process today, not only in education but also in e-sports, political discussions, and even new products.

The **IPTV encoders** are becoming crucial since they give the capacity to deliver live video conveniently and securely on IP networks.

What is an IPTV Encoder?

An **[IPTV encoder](#)** is a hardware or software program that transforms video and audio messages into digital forms suitable for online transmission.

With a classic IPTV installation, a camera, satellite signal (or other video source) is fed into an encoder, which encodes it as **H.264, H.265 (HEVC), or AV1** video codec and then delivers it across IP networks.

This compression allows streaming of the content in real time throughout the internet to different devices such as smartphones, TVs, tablets, and computers.

Our Partners

- [The BEST IPTV](#)
- [BestIPTVGuide](#)
- [Top10IPTV](#)
- [IPTVRanks](#)
- [IPTVReviewz](#)
- [IPTVMentor](#)
- [IPTVPicks](#)
- [IPTVEye](#)
- [IPTV-New](#)
- [VPNyolo](#)

Why Are IPTV Encoders Essential for Live Streaming?

Live streaming requires low-latency settings, stability in the quality of streaming, and reliability. These are given by IPTV encoders:

- Reducing the size and compressing large-sized video files to their original quality.
- Accommodating real-time transmission.
- **Adaptive bitrate streaming (ABR)** is provided to change the video quality regarding the bandwidth of the user.
- Simultaneous encoding in different resolutions and different formats.

In 2025, and more viewers **streaming on 4K and even 8K**, there has never been a greater need for greater performance encoders, ever.

Types of IPTV Encoders in 2025

Since the popularity of high-quality, low-latency live streaming is increasing day by day, IPTV encoders have become indispensable devices to content creators, broadcasters, schools, churches, and businesses.

1. Haivision Makito X4

Type: Hardware

Best For: Enterprise-grade live streaming, broadcast networks

Key Features:

- Ultra-low latency encoding
- Support for 4K UHD and HD
- Multi-channel HEVC/H.264 encoding
- SRT and Zixi protocol support

Pros:

- Industrial-grade reliability
- Supports up to 4 simultaneous streams
- Excellent for high-security environments

Cons:

- Expensive
- Requires professional setup

2. Teradek Prism Flex

Type: Hardware

Best For: Field production, news broadcasting, remote live events

Key Features:

- Compact 4K HDR encoder
- SRT, RTMP, and MPEG-TS support
- Remote management via Core Cloud

Pros:

- Portable and rugged
- Secure video transport over public internet
- Easy remote monitoring

Cons:

- Higher price for casual users

3. LiveU Solo Pro

Type: Hardware (portable)

Best For: On-the-go mobile streaming

Key Features:

- 4K HEVC encoding
- Bonded cellular (4G/5G, Wi-Fi, Ethernet)
- Seamless integration with all major CDNs

Pros:

- Plug-and-play
- Battery-powered, portable
- Reliable in unstable network areas

Cons:

- Subscription required for cloud bonding

4. Kiloview G2 Encoder

Type: Hardware

Best For: Budget-conscious professional streamers

Key Features:

- HDMI to IP encoding
- H.264 and H.265
- SRT, RTMP, RTSP, and HLS streaming

Pros:

- Affordable
- Lightweight and compact
- Wide protocol support

Cons:

- Not ideal for 4K or heavy workflows

5. Magewell Ultra Encode AIO

Type: Hardware

Best For: Hybrid online events, education, and enterprise

Key Features:

- HDMI and SDI inputs
- H.264/H.265 encoding
- SRT, RTMP, NDI|HX, and HLS support

Pros:

- All-in-one solution

- Strong software interface
- Great value for money

Cons:

- Lacks advanced security features

6. OBS Studio (Open Broadcaster Software)

Type: Software (Free, Open-source)

Best For: Entry-level streamers, gamers, hobbyists

Key Features:

- Support for multiple scenes and sources
- RTMP streaming
- Plugin ecosystem for customization

Pros:

- Completely free
- Active community support
- Easy to learn and flexible

Cons:

- Limited to system resources
- Not ideal for mission-critical streaming

7. vMix Pro

Type: Software

Best For: Advanced live productions, hybrid events, churches

Key Features:

- 4K/8K support
- Instant replay, virtual sets, call-ins
- Streaming and recording simultaneously

Pros:

- Broadcast-grade features
- High-quality encoding
- Supports multiple formats

Cons:

- Requires a powerful PC
- Paid license required

8. Epiphan Pearl-2

Type: Hardware

Best For: Corporate presentations, webinars, hybrid meetings

Key Features:

- Multi-channel live encoding
- Supports 4K with multiple inputs
- Easy integration with Zoom, Teams, etc.

Pros:

- User-friendly UI
- Local and remote control
- Highly stable

Cons:

- Higher upfront investment

9. AVerMedia Live Gamer BOLT (GC555)

Type: Hardware (Capture + Encoder)

Best For: Gamers and YouTube creators

Key Features:

- Thunderbolt 3 interface
- 4K60 HDR and 1080p240 encoding
- Ultra-low latency streaming

Pros:

- Ultra-smooth gaming capture
- Great color fidelity
- Compact and stylish design

Cons:

- Thunderbolt-only limits compatibility

10. Wowza Streaming Engine (Software Encoder + Server)

Type: Software

Best For: Custom IPTV platforms, developers, OTT services

Key Features:

- Multi-bitrate encoding and adaptive streaming
- Support for SRT, RTMP, HLS, MPEG-DASH
- API access for automation

Pros:

- Powerful and scalable
- Great for white-label IPTV services
- Highly customizable

Cons:

- Steeper learning curve
- Requires server infrastructure

Choosing the Right IPTV Encoder for Live Streaming in 2025

The major aspects are the following:

1. Video Quality & Format Support

Choose HEVC (H.265) and even AV1-compatible encoders as the encoders of the high-performance streaming presently available. At the professional level of broadcasting, make sure it supports 4K / 60 fps or more.

2. Input Options

There should be **HDMI, SDI, USB, or IP stream** inputs, depending on your camera or source device.

3. Streaming Protocols

Check RTMP, SRT, HLS, RTP, or Zixi support. By 2025, SRT (Secure Reliable Transport) will have gained a lot of usage due to its ability to deliver at low latency and secure delivery.

4. Bitrate Control & ABR

This is made possible through adaptive bitrate, so that there is consistent viewing on the various devices and at various network rates.

5. Budget

Hardware encoders cost between \$500 and above 10, 000 dollars. Software encoders could be free or pay-based.

6. Portability

In the case of field reporters and mobile streamers, the encoder has to be lightweight and equipped with wireless capabilities.

Use cases of IPTV Encoder

- **Live sports broadcasting**- Real-time recording of meetings in HD or 4K.
- **Religious streaming Church live**-streams worship around the world.
- **Corporate webinars** - Companies organize high-end public and internal events.
- **Learning** - Distance education involving multi-camera systems.
- **eSports & gaming** - High FPS streaming game competitions.

Frequently Asked Questions

Q: What is the role of an IPTV encoder?

It encodes video to a digital feed in order to provide Internet video streaming.

Q: Is IPTV encoder legal?

It is legal to use an encoder. All you need to do is stream licensed or authorized material.

Final Thoughts

In 2025, encoders of the [best IPTV](#) will continue to be the soil of professional live streaming. When deciding what type of solution to use to broadcast, either hardware-based for mission-critical broadcasting or a software-based encoder with flexibility and low cost, the main thing is to consider aligning the option with the objectives, the budget, and the audience.