HDMI live streaming encoder

Our encoders can be deployed in dozens, hundreds and thousands and be easily controlled from your or your client's cloud platform using our remote management API.

Our encoders

Unmatched Reliability

Say goodbye to streaming disruptions. Our encoders ensure your live content is delivered smoothly, maintaining consistent quality even in challenging network conditions.

Versatile Connectivity

With both HDMI and SDI inputs, our encoders cater to a range of video sources, making them ideal for various professional setups.

Crisp, Clear Quality

Deliver content in 1080p60 resolution. Whether it's fast-paced action or detailed presentations, your audience enjoys crystal-clear visuals.

Codec Support

Embrace the flexibility of H.264 and H.265 codecs. Optimize your streams for quality and bandwidth efficiency, reaching your audience without compromise.

Multi-Stream Capability

Go live on multiple platforms simultaneously. With support for up to 4 live streams in formats like RTMP, SRT, MPEG-TS, HLS push, and multicast, you can broaden your reach effortlessly, without a need for a cloud transcoding or restreaming server.

Adaptive Streaming

Our encoders support variable and adaptive bitrate streaming, ensuring the best viewing experience across devices and network conditions.

Remote Control Ease

Manage your streams from anywhere. With cloud dashboard access and API integration, remote control and configuration of your live streams become seamless and intuitive.

Distributed Infrastructure Connectivity

Connect your encoders to servers in multiple zones around the world. Our distributed infrastructure ensures high availability and reduced latency, offering a truly global reach for your broadcasts.

Our cloud API

Developer-Centric API Gateway

Created with developers in mind, our API gateway is a beacon of innovation and reliability in streaming technology. It offers a robust, scalable solution that caters to the intricate needs of software development, ensuring seamless integration with your live video systems.

Bulletproof Remote Management Reliability

Our API offers unwavering stability for remote live stream management, ensuring consistent, uninterrupted control even in challenging conditions. Rely on our robust system for seamless, dependable remote operation, keeping your streams smooth and your management hassle-free.

REST API for Precise Command Control

Harness the power of our REST API for detailed command control. This feature enables you to execute precise encoder operations, manage settings, and more, all through a familiar RESTful interface. It's about giving you the control you need in a format that's intuitive and efficient.

Real-Time Data

Stay ahead with real-time events via our Websockets implementation. This feature ensures immediate responsiveness, providing you with up-to-the-moment updates and interactions. Whether it's monitoring encoder status or receiving instant notifications, our Websockets integration keeps you in the know, in real time.

ReGen Polystream
A1-EH14 HDMI Encoder

VIDEO I/O

Inputs	1x HDMI (1.4)
Outputs	HDMI loop output
Supported Resolutions	1080p60/50, 1080i60/50, 720p60/50, 720x576i, 720x480i
Color Sampling	4:2:0
Bit Depth	8

AUDIO I/O

Input	1x HDMI Embeded, Analog input
Output	n/a
Compression	AAC/AAC+/AAC++/MP3/MP2/AC3/G711A/U
Audio Channels	2
Audio Sample Rate	44100/48000 Hz
Bit Depth	24 bit
Audio Bitrate	32K/48K/64K/96K/128K/160K/192K/384K

VIDEO PROCESSING

Compression	H.265, H.264 Baseline/Main/High Profile
Supported Bitrate	0.16 Mbps - 32 Mbps
Bitrate Control	CBR / VBR
Advanced	De-interlacing, Image Enhancement, Noise Reduction, Sharpening
Video Transport Protocols	UTP, HTTP, RTSP, RTMP(S), HLS, FLV, UDP, Unicast/Multicast
Streams	Main (up to 1080p), Substream 1 (up to 1080p), Substream 2 (up to 720p), Substream 3 (up to 576p)
HDR Support	n/a

On-screen display (OSD)

Images or text	Up to 4
Advanced	1 text scroll

PROTOCOL SUPPORT

Network Protocols	TCP/IP, UDP, HTTP, DHCP, NTP
Remote Management	Remote Genius API

INTERFACES

Web UI	Yes
CGI	Yes

NETWORK

Ethernet	1 Gbit
Wireless	n/a
USB	n/a
Internal Modems	n/a
External Modems	n/a
Antennas	n/a

POWER

Power Input	5V-12V DC 1A
Internal Battery	n/a
Power Consumption	<5W

PHYSICAL ATTRIBUTES

Dimensions	105x105x40mm | 4.13"x4.13"x1.57"
Weight	350g | 12.35oz
Construction	Milled aluminium alloy
Mounting Options	3 threaded holes for 1/4"-20 screws 4 threaded holes for 2 DIN rail mounts 2 universal rack shelf mounts (included)
Cooling	Passive

GENERAL

Operating Temperatures	0-45 °C (work), -20 +80 °C (storage)
IP Rating	—
Start-Up Time	10 sec
Certification	FC C€

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