

iENC

DIBVISION | DIBSYS

2x HDMI/SDI H.265/MPEG4 AVC

Network Encoder with multi-protocol



UDP/SRT/RTMP/HTTP/HLS



iENC With dual channels HDMI, 3G-SDI, AES/EBU, analog audio can be encoded on the 1-RU chassis, and each channel can support 3 types of bitstream outputs.

iENC, with its wide range of encoding tools, HEVC offers incredible compression efficiency, making distribution and delivery of live HD content available for television media integration, online live streaming, real-time classrooms, and video conferences.

iENC, Multi-protocol Network Encoder, which can transfer the live program through the internet/LAN, and gives IP out over UDP (Unicast/Multicast), SRT, RTMP, HTTP and HLS, and the output signals are to be received by PC, phone and other mobile terminals.

Features

- Dual channels HDMI, 3G-SDI inputs
- with 6 IP SPTS output
- Superior real-time HEVC/H.264 encoding
- Each channel can modify the encoding resolution and bit rate
- Support deinterlacing
- 2.0 inch TFT true color screen
- Support video preview function
- AAC-LC/HE-AAC V1/HE-AAC V2 audio encoding
- Support **1080P @60fps** input and output
- CBR/VBR video bitrate mode
- Support IP Output over UDP (Unicast/Multicast), SRT, RTMP, HTTP and HLS
- Web-based user interfaces

Main Application

- Carrier-grade Cable TV, Satellite Up-link
- television media integration, online live streaming, real-time classrooms, and video conferences
- Low bitrate Live Streaming in limit Bandwidth
- 1080p@60fps FullHD Video encoding

TECHNICAL SPECIFICATIONS

Input Interfaces

Video Input	Number of Channels: 2 Ports HDMI, SDI interface optional
Audio Input	HDMI/SDI embedded signal 2*analog stereo audio, XLR 2*AES/EBU audio, XLR

Stream Output

RJ45 Port	6 IP stream (each channel support 3 SPTS out) output over UDP (SPTS) SRT/RTMP/HTTP/HLS/M3U8 1000M/100M Base-T Ethernet interface MPEG TS over UDP, unicast, and multicast streaming
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Video Encoding

Video Compression	HEVC/H.265, MPEG-4 AVC /H.264
Profiles and Levels	H.264, High Up to L4.2
Chroma	4:2:0
Bit rate	0.5Mbps ~ 10Mbps
Encoding Schemes	CBR/VBR
GOP Structure	IPPP
Resolution	1920*1080, 1280*720, 720*576, 720*480, 640*360
Advanced	
Preprocessing	De-interlacing, Noise reduction, Sharpening
Pre-Processing	Deblocking filter Sample Adaptive Offset (SAO) Asynchronous Motion Partitioning (AMP) Coding Tree Block (CTB) from 16x16 to 64x64

Audio Encoding

Sampling Rates	48KHz
Audio encoding	AAC-LC/HE-AAC V1/HE-AAC V2
Bitrate	48kbps, 64kbps, 96kbps, 128kbps, 256kbps, 320kbps

Network output

Management Port	Web-GUI, front panel, RJ45, 1000M
Protocol	UDP , SRT, RTMP, HTTP and HLS
Video Preview	2.0 inch TFT true color screen Real time preview of input video

Environment

Electromagnetic Compliance	Comply to GB13837-92 & GB8898-88
Power Supply	AC 100-250V± 10%, 50/60Hz
Power consumption	25W
Operation temperature	-10 - 50°C
Storage temperature	-10 - 75°C
Dimensions (H x W x D)	300 mm×430mm×44mm (1RU)
Weight	5kg