Magicboy

DIBVISION | DIBSYS

8/16/32 Full HD HEVC/H.264 HDMI IPTV Encoder













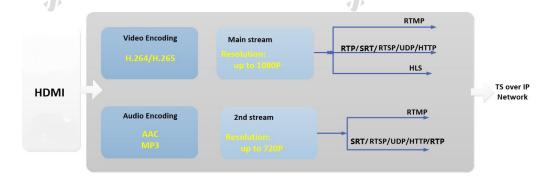
MagicBoy can support 8/16/32 channels input, it is the world's New Generation HEVC H.265/H.264 hardware encoder in a professional grade, compact streaming appliance. The product has the function of supporting 8/16/32 channels HD-MI video capture, generate dual stream of H.264/H.265 encoding output and the MP3, AAC, LC AAC, HE AAC audio format. The product has high integration and reasonable price which can generate an H.265-encoded stream compliant with RTSP, HTTP, UDP, SRT, RTP, RTMP, RTMPS. HLS, NDI (option) protocols, to various servers, such as Adobe Flash Server, FACEBOOK, Wowza Server, Windows Media Server.

MagicBoy boasts an all-hardware compression chip for real time encoding with advanced audio and meta data handling - all packaged in a portable device with low power consumption, which makes it possible to take next generation HEVC encoding from the server rooms into the field for professional and industrial applications with easy integration to education, health care, IPTV, conference, remote education, news interview, banking, transportation and other industries.

Features

- 8/16/32*HD-MI (HDCP) Inputs
- Two Protocol, Bitrate, Resolution, Profile per HD-MI Source
- support insert picture LOGO, only BMP format. Please name it: logo.bmp
- English/Chinese OSD insert, and OSD rolling
- Support to add the company logo and symbols, which can be displayed anywhere on the screen
- Will come into effect as soon as it is set up, no need to restart.
- Dual streams out, Each HD-MI input source simultaneously support one channel up to 1920x1080p Full HD and one channel 1280x720 HD output
- Video packaging mode: mode A: FFMPEG; Mode B: VLC
- PMT ID and Transport ID meet the DVB standards
- Each channel stream can simultaneously support any one among the UDP/RTSP/RTP/HTTP/SRT/HLS protocol, including RTMP/RTMPS protocol output, NDI optional
- RTSP stream support identity authentication
- support push stream to RTSP server
- Plug in Internet line, work without HD collection card
- Support simultaneous display of one computer and multiple devices
- Supports both HEVC and H.264 built for the future without losing support for legacy receivers/decoders
- Support DHCP automatically get IP, One-keyrecovery, version upgrade and remote maintenance
- Web page video preview function, facilitate the implementation of adjustment
- HD-to-SD downscale conversion
- Support CBR and VBR mode
- Low power design
- WEB Management

Principle Chart



Main Application

- Low Bitrate Video and audio compression transmit
- IPTV, conference, remote education
- · Backhaul/Monitoring for Broadcasters

TECHNICAL SPECIFICATIONS

Video Inputs

8/16/32*HD-MI (HDCP),

Audio Inputs

Processes first two channels of audio embedded in HD-MI input signal

OUTPUTS

RJ45 providing 10/1000Base-T Ethernet with Static or DHCP addressing; IP Output type

RTMP, RTMPS, RTSP, HTTP, SRT, UDP,

Protocol HLS, NDI(option)

Multi-cast (number of clients may vary from

3 to 10)

Multi-Screen Up to 2 channels High def. and any resolution of streams simultaneously out per

@30fps

Frame rate

Users Interfac Computer

HTTP via standard PC or web browser using Based control Command Center. The simple Control API

and SDK is also available to programmers to

create their own application

Pre-processing

Frame rate

Video adjustments (Brightness, contrast, Saturation, Hue) Image setting

from 5fps to 30fps

Image insertion OSD insertion

Enhancement filter Deinterlacing; Noise reduction; Sharpening; Visual Optimizing;

Filtering

H.265/HEVC Video Encoding

Bitrate mode VBR, CBR

Key interval 5-200

1920*1080,1280*a720,1024*576, 850*480, 720*576, 704*576, 640*480, 640*360, auto first stream

1280*720, 800*450, Second Stream

720*576, 720*408, 704*576, 640*480, 640*360, 352*288,

320*240, 320*180, auto

MPEG-H HEVC (ISO/IEC 23008-2) H.265 encoding Main Profile Level 4.1 (4:2:0 8-bits)

Video Bitrate 100kbps to 12Mbps

Encode Frame Rates Encode frame rates representing 1:1,

1/2 and 1/4 of the input frames rates are

Supported

1000-2500kbps

Bitrate of Res.

1920x1080p (Full HD)

720x576 (D1) 200-500kbps 1080x720p (HD) 800-2000kbps

H.264/MPEG-4 Part 10 (AVC) Video Encoding Bitrate mode VBR, CBR

Bitrate mode

HD-MI

1920*1080, 1280*720, 1024*576, 850*480, 720*576, 704*576, 640*480, 640*360, auto First stream

1280*720, 800*450, 720*576, 720*408, Second Stream 704*576,640*480, 640*360, 352*288,

320*240, 320*180, auto

Audio Encoding

AAC, MP3, LC AAC, HE AAC, G711(Only RTSP) Audio encoding

Range from 48 kbps to 256 kbps 32Khz, 44.1Khz Bit Rates Resample Rate

Audio Channel L+R, L, R

Control

1000M Base T Ethernet, RJ45, auto-negotiation Management via Web

Language English/Chinese

Environment

Power Supply +12V (Compact size), 220V (1RU)

Power consumption 28W

0 -50°C (32 -122°F) Operation temperature Storage temperature -40-70°C (-40-158°F)