

**STREAMING
& TV**



BY FIBER SYSTEM

PRODUCT MANUAL

MAGICBOX HD4 PLUS

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Product Overview

Magicbox HD4 Plus series can support 1/8/16 channels input, it is the world's New Generation HEVC H.265/H.264 hardware encoder in a professional grade, compact streaming appliance. Its advanced HEVC compression enables users to stream broadcast quality 1080p video with up to 50% bandwidth savings compared to today's H.264 standards.

The product has the function of supporting 1/8/16 channels HDMI, HDMI/AV, HDSDI, HDMI/AV/Ypbpr/VGA video capture, generate dual stream of H.264/H.265 encoding output and the MP3, AAC, LC AAC, HE AAC audio format, and support hashcode remover function. 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 and HLS (option) protocols, to various servers, such as Adobe Flash Server, FACEBOOK, Wowza Server, Windows Media Server.

Magicbox HD4 Plus 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.

HEVC/H.265 Encoder Magicbox HD4 Plus, the successor to AVC/H.264, more than triples the existing AVC intra-frame prediction modes to achieve significant bitrate savings, it is targeted to next-generation HDTV displays and content capture systems that feature progressive scanned frames and display resolutions up to 1080p. The result is a codec that can offer up to 50% reduced bitrate at the same quality when compared to AVC/H.264.

Main Characteristics



- HDMI (HDCP), HDMI+AV, HDSDI, HDMI+AV+Ypb-pr+VGA Inputs per module
- HDMI input model support hashcode remover function (optional)
- Two Protocol, Bitrate, Resolution, Profile per HDMI Source Input
- Support WINDOWS and LINUX operating systems
- Support insert picture LOGO, only BMP format.

- Next-generation HEVC / H.265 compression reduces network bandwidth by up to 50% compared to H.264
- Video packaging mode: mode A: FFMPEG; Mode B: VLC
- PMT ID and Transport ID meet the DVB standards
- Audio gain: -20db~10db
- Supports both HEVC and H.264

Technical Specifications

VIDEO

Input Interface 1 * HDMI + 1 * Stereo Audio(3.5mm)

Support Resolution Max Support 1920 x 1080P@60fps

Output Interface 1 * Ethernet Port(RJ45)

Video Encoding MPEG-4 H.264 /AVC

Code Rate Control From 32Kbps to 32Mbps

Code Rate CBR /VBR

GOP Structure IBBP

Video Pre-processing De-interlacing, Noise Reducing & Sharpening

AUDIO

Audio Encoding AAC, AAC+, AAC++, MP3

Sampling Rate Auto

Bit-rate Option 32K, 44.1K, 48K, 64K, 96K, 128K, 160K, 192K,384K

Sampling Accuracy 24 Bit

Audio Data-rate 64Kb /S to 384Kb /S

NETWORK

RJ45 1000M Interface

Program Streaming HTTP, UDP /RTP, RTSP, RTMP, HLS, FLV, ONVIF

Control Panel WEB Panel (Language Customizable)

Firmware Update Enable by Uploading Files To Dashboard



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