MagicBox Bro

H.265/H.264 MINI Movable HD Encoder with 3G/4G/WIFI



Magicbox Bro 3G/4G/WIFI + Battery HD HDMI/HD-SDI Encoder is a professional audio and video encoding products, which support 1-channel audio and video capture features high-definition HDMI, 1channel 3.5MM independent audio interface acquisition, dual streamingH.265/ H.264 encoded output format, audio MP3, AAC formats.

It support IP output with HTTP/RTSP/RTMP/UDP/HLS protocol and transmission, and with external audio input. It doesn't have computer hardware compatibility issues, easy to operation.

Lowest cost and easy-to-use video streaming appliance designed for professional video producers who need to to broadcast high definition video. The encoder is a professional high definition video coding product, with high integration and reasonable price. From any HDMI/HD-SDI input source such as a camera or switcher, it generates an H.264/H.265-encoded stream compliant with RTSP, HTTP, HLS, UDP, RTMP, RTP protocols. The product can be applied to education, health care, IPTV, conference, remote education, news interview, banking, transportation and other industries.

This encoder can deliver H.264/H.265-encoding video streams to various servers, such as Adobe Flash Server, Wowza Server, Windows Media Server and some other servers based on HTTP/RTSP/RTP/RTMP/UDP/HLS protocols.

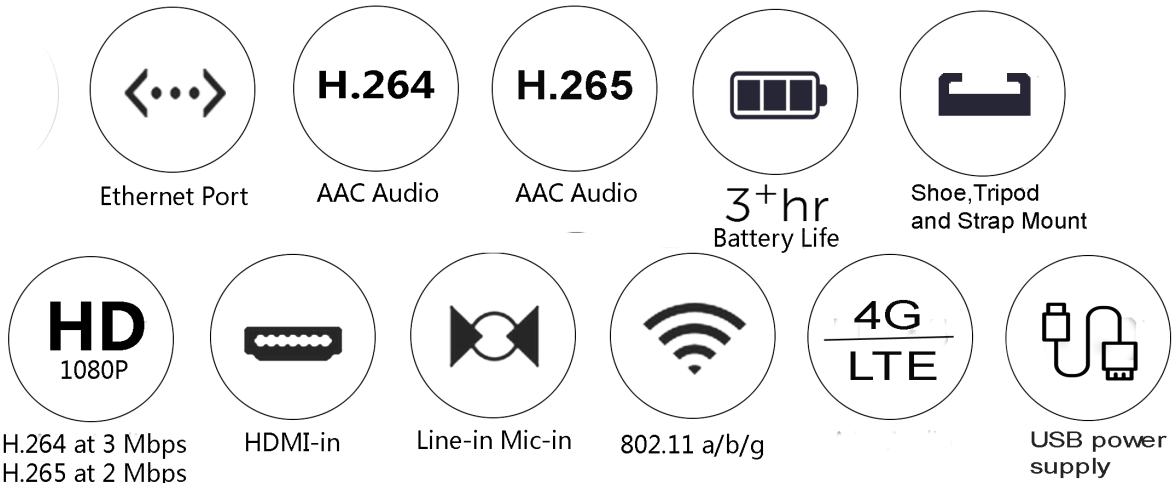
With MagicBox Bro, it can broadcast To Any Streaming Platform and allows you to stream your live video content to a Wowza server or the platform of your choice at any time.

Features

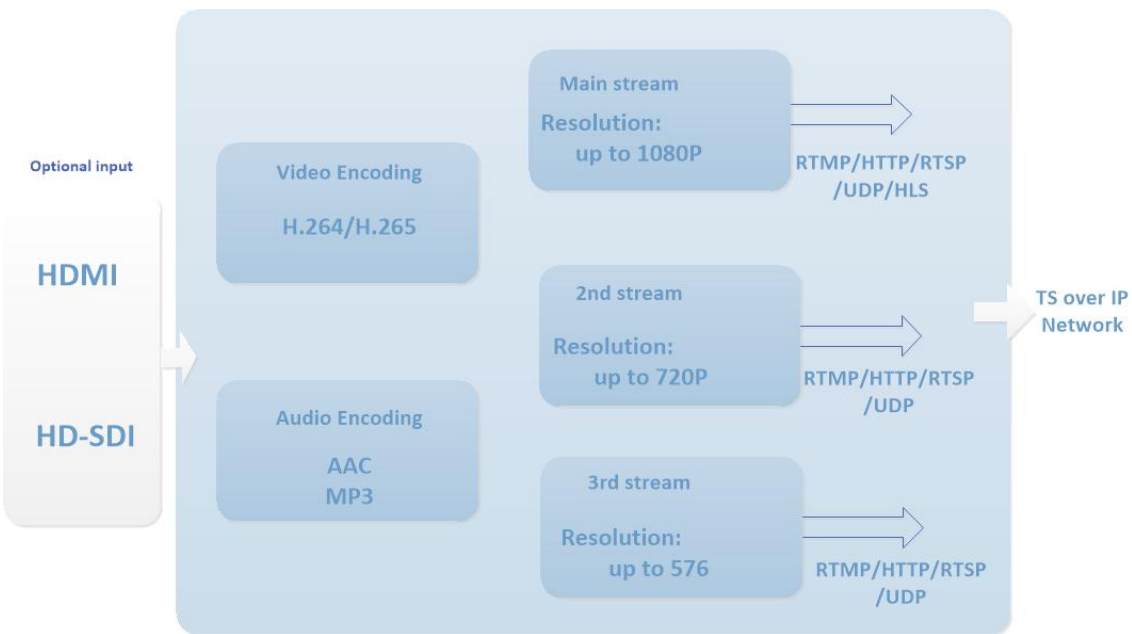
- Support 3G/4G/WIFI/cable network optional
- 1*HDMI input (HD-SDI option), H.265 latest architecture
- Battery usage time: 3+ hours
- H264/H265 encoding format
- The shoe base is fixed to the camera
- Support1920x1080p/1920x1080i/1280x720p/720*576i/720*576p/640*480i solutions (customized)
- Supports WINDOWS and LINUX etc
- multiple devices display on a computer at the same time
- Support RTSP/RTP/RTMP/HTTP/HLS/UDP unicast and multicast protocol (RTMP support adding users and changing passwords)
- Support Main TS stream and the sub TS stream use in different network protocols for transmission
- Encoding level: 1, 2, 3, 4 and 5 (the higher the level ,the larger of the code flow fluctuation ratio)
- Coding Standards BASELINE PROFILE / MAIN PROFILE / HIGH PROFILE, H.265:audio MP3, AAC, sampling rate: 32000,44100, etc., encoded audio bit rate: 48K, 64K, 96K, 128K, 160K, 192K, 256K
- Video packaging: A mode: FFMPEG, B mode: VLC
- Compatible with Wowza/FMS/RED5 streaming media server etc, work in with streaming media server to push the streaming , to achieve a live streaming
- Rate Control CBR / VBR 16KBIT / S ~ 12MBIT / S
- Video packaging: A mode: FFMPEG, B mode: VLC
- Transmission: TCP, UDP, 1000M (RJ45 Duplex network port)
- OSD in Chinese/ English, support OSD rolling, images superimposing, support adding LOGO ,Characters and symbols; Adjustable coordinates: 1920x1080; The font size resolution: 8 to 72.
- WIFI: 2.4Ghz, 802.11n is compatible with IEEE802.11g, IEEE802.11b, the effective transmission distance: 30m
- DHCP gaining IP automatic ,support One-key recovery, upgrade and remote maintenance
- Image settings: contrast ratio, brightness, tones, saturation, noise detection, sharpness, filtering
- With build-in or external methods , support left and right sound channel , Support audio gain ,be able to turn volume individually
- Support coding without video signal;
- Complete the setting effect immediately, don’t need to restart
- one-key recovery of the default configuration
- Support set-top box decoder
- The low power consumption design, USB power supply supported
- Battery power supply, can use 5-6 hours
- WEB management, support mobile APP operation to manage the encoder
- **NOTE: in 4G transmission, HLS protocol cannot be used.**

Copyright © Hangzhou Dibsys Technologies Co.,Ltd. All Rights. ¦ www.dibvision.com ¦ sales@dibvision.com ¦ +86 571 8971 4580 ¦ Skype:dibdvb

Core Features



Principle Chart



Copyright © Hangzhou Dibsys Technologies Co.,Ltd. All Rights. ¦ www.dibvision.com ¦ sales@dibvision.com ¦ +86 571 8971 4580 ¦ Skype:dibdvb

Application

- network TV IPTV HD encoder
- Can be accessed NVR for DVR
- digital signage HD streaming server
- video conferencing system, video server
- network conference system video capture
- instead of HD video capture card
- Mobile live system
- Oline classroom system
- Hotel CATV system

TECHNICAL SPECIFICATIONS

INPUT

Types	
	1 HDMI input (HD-SDI option); 1 channel 3.5MM channel audio input

OUTPUT

IP output	
	1 channel IP signal output, 1 RJ 100M / 1000M adaptive Ethernet port, TS stream standard, dual-stream, ONVIF protocol

Video

Input resolution	
	1920x1080p,1920x1080i,1280x720p, 720*576i,720*576p,640*480i,and other conventional resolution
Coding standard	H.265/H.264
Coding level	H.265 MAIN PROFILE H.264 BASELINE PROFILE H.264 MAIN PROFILE H.264 HIGH PROFILE
Encoded size	640*360~1920*1080(customization supported)
Video bit rate	
Rate control	CBR/VBR 16KBIT/S~12MBIT/S
Video frame rate	30
OSD	Character, images

Audio

Input selection	
	1 channel embedded audio HDMI; 1 channel 3.5MM independent audio (audio gain supported)
Audio coding	AAC/MP3
Audio bit rate	64Kb/s~384Kb/s
Sampling rate	32000, 44100, 48000 etc

WIFI

	IEEE 802.11 b/g/n client
	Embedded high-performance 32-bit RISC microprocessor
	Highly with integrated RE with 55nm CMOS technology
	1T1R mode with support of 150Mbps PHY rate
	Integrated high efficiency switching Regulator
	Best-in-class power consumption performance
	Compact 5mm x 5mm QFN40L package
	1/2/3/4- wire PTA WIFI/Bluetooth coexistence support
	802.11 d/h/k compliant
	Security support for WFA WPA/WPA2 personal, WPS2.0 WAPI
	Support 802.11w protected managed Frames
	Qos support of WFA WMM, WMM PS Support WIFI Direct
	Fully compliance with USB v2.0 High-speed mode
	Per packet transmit power control
	Antenna diversity
	Auto-calibration

System

Network protocol	Supports HTTP, RTSP, RTMP, HLS, UDP, Multicast, Unicast
Configuration management	Support IE configuration, remote upgrade

Environment

Power Supply	12V~2A
Power consumption	5W
Operation temperature	-20℃+ 60℃
Working humidity	<90%, Non-condensing
Dimensions	103mm (L)* 70mm(W) * 25mm(H)
Weight	0.4KG

Copyright © Hangzhou Dibsys Technologies Co.,Ltd. All Rights.