



DIBVISIONS MagicBit Portable H.265 H.264 K4 Encoder with 3G 4G Wifi Owner's Manual

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MagicBit 3G/4G WIFI + Battery HD-MI/HD-SDI 4K Encoder, a professional equipment specially designed for the outdoor ultra-clear live broadcasting industry. Lowest cost and easy-to-use video streaming appliance designed for professional video producers who need to broadcast 4K and high definition video. From any HD-MI/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, RTMPS, RTP, SRT protocols. The product can be applied to education, health care, IPTV, conference, Live match, remote education, news interview, banking, transportation and other industries.

It supports simultaneous insertion of SIM cards of different operators, and provides reliable uplink bandwidth to ensure that the network environment is not ideal. Intermittent video transmission can also minimize the delay of data transmission.

With MagicBit Full protocol / multi-link / ultra-high bandwidth, 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.

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Features

- Support 3G/4G/WIFI/cable network
- touch screen, screen display, and screen management
- **Dual input, SDI (1080p @30) + HDMI (4Kp@30)Switchable**
- **4G network module*3+USB port extend*2+WiFi+Ethernet**
- H264/H265 encoding format
- **Launch live streaming to the world anytime, anywhere**
- Designed for professional streaming media users, visual window touch operation and monitoring
- **Support for 7 channels bonding networking**
- The shoe base is fixed to the camera
- **Lip Router bonding technology support**
- Support RTSP/RTP/RTMP/RTMPS/HTTP/HLS/SRT/ONVIF28181/UDP unicast and multicast protocol
- **Support all kinds of common streaming platforms**
- OSD in Chinese/ English, support OSD rolling, images superimposing, support adding LOGO, Characters and symbols
- **Connect or video back to the backpack**
- one-key recovery of the default configuration
- Low power consumption design, long battery life
- External battery power supply
- WEB management

Application



Embedded SIM slots

4G network module embedded



Picture Overlay
Add overlay, logo icon



Built-in battery
Wide voltage supporting



Control and communication
TALLY, PTZ control, call connection



PIP
Customizable layout mode, adding background



7 channel bonding
4G network + WiFi + Ethernet



Mixer
Embedded audio mixer software



Program making

PIP, picture overlay...



Live dual input

SDI + HDMI with live switching



Touchscreen

Multi-view, management settings



Multiple streaming protocol

RTMP, SRT, Live+ connection



FHD/4Kp30

1080p60 /4Kp30(HDMI)



WAN/LAN one click conversion

Internet port function can be set



Live on line

on location, interview connection



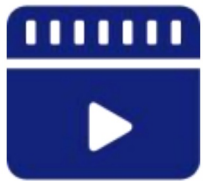
Outdoor live broadcast

Event, sports, adventure...



Professional bonding streaming

Lip Router bonding technology support



Launch live streaming

Launch streaming at the camera end



Conference & lecture

Live broadcast of seminar & training



Live broadcast of the exhibition

Auto show and other exhibitions



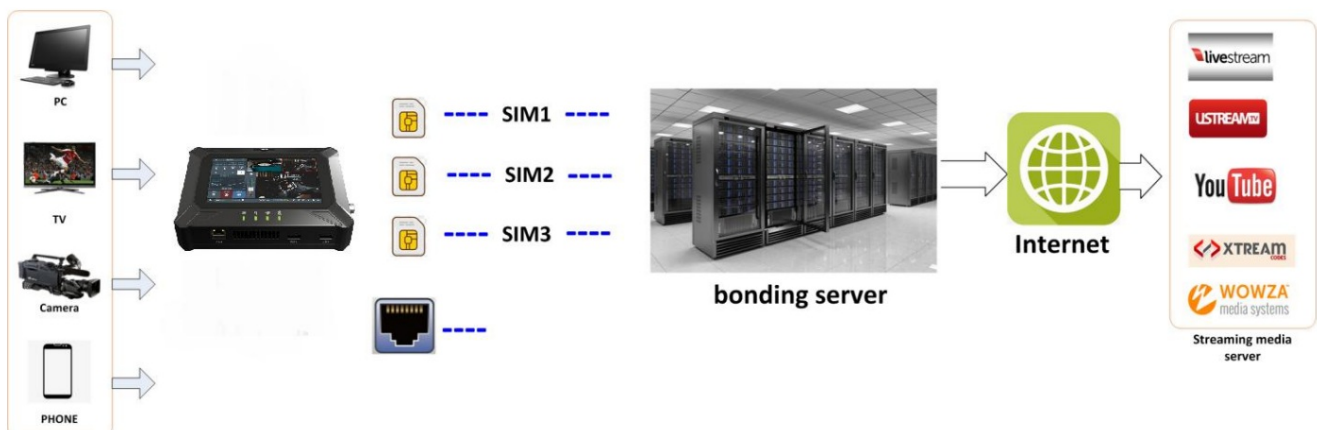
Streaming Media Studio

Necessary tools for audio and video media productivity

Appearance and interface



Designed for professional streaming media users, visual window touch operation and monitoring



TECHNICAL SPECIFICATIONS

INPUT	
Types	1*HD-MI and 1*HD-SDI same time 1 channel 3.5MM channel audio input

OUTPUT	
IP output	1*HD-MI+1*SDI output 2 profile IP signal output, 1 RJ 100M / 1000M adaptive Ethernet port, TS stream standard, two-stream Support 2 profile output, each profile can be pushed to 4 different platforms

Video	
Input resolution	3840x2160p, 1920x1080p, 1920x1080i, 1280x720p, 720*576i, 720*576p, 640*480i, and other conventional resolution
Coding standard Coding level	H.265/H.264 H.265 MAIN PROFILE H.264 BASELINE PROFILE H.264 MAIN PROFILE H.264 HIGH PROFILE
Encoded size	640*360~3840x2160p (customization supported)
Video bit rate control Video frame rate OSD	BR/VBR 16KBIT/S~12MBIT/S HDMI (4K@ 30fps), 3G-SDI (1080p@ 60fps) Character, images

Audio	
Audio coding	1 channel embedded audio HD-MI/SDI; 1 channel 3.5MM independent audio (audio gain supported) 1 channel micro phone
Audio bit rate	AAC/MP3
Sampling rate	64Kb/s~384Kb/s
WIFI 2.4G/5.8G	48kHz, 16 bit, stereo

WIFI 2.4G/5.8G

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, RTMPS, HLS,SRT,UDP, Multicast, Unicast, SRT
Configuration management	RS232X 1 (PTZ control, phoenix contract) 3.5mm headphone *1 (call, connection) Tally signal (phoenix contract)
Storage	TF card (max 128G, optional 64GSANDI industrialCLASS10 card)
Bonding Network	4G Network*3 + USB 3.0 extend*2+Ethernet+2.4G/5.8G WiFi dual frequency, 7channelsbonding
Display	5 inches MIPI LCD, 1920* 1080 touch screen interface operation, image monitoring, audio VU.
System architecture	Based on ARM embedded Linux


Environment	
Dual Power Supply	10-20V Wide voltage DC power supply/ embedded lithium battery 6000mAh/7.4V2-3 hours power supply for endurance

New director function

- with PIP, single screen, dual screen, 3 screen, 4 screen, multi-screen output
- multiple input arbitrary switching
- custom layout
- score board (match score display)



Documents / Resources

	<p>DIBVISIONS MagicBit Portable H.265 H.264 K4 Encoder with 3G 4G Wifi [pdf] Owner's Manual</p> <p>MagicBit Portable H.265 H.264 K4 Encoder with 3G 4G Wifi, MagicBit, Portable H.265 H.264 K4 Encoder with 3G 4G Wifi, Portable H.265 H.264 K4 Encoder, K4 Encoder, Encoder</p>
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References

- [China Encoder Decoder, Hotel IPTV, IPTV Solution Suppliers, Manufacturers, Factory, Company - Hangzhou HAOXUN Technologies Co.,Ltd](#)