MAGEWELL

Ultra Stream HDMI Technical Specifications

Specifications are based on current hardware, firmware and software revisions, and are subject to change without notice.

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Input Features

- Max HDMI input & loop-through signals:
    - 4096x2160 4:2:0 60fps
    - 4096x2160 4:4:4/4:2:2 30fps
- Custom EDID
- Supported HDMI inputs include:
    - 4096x2160p/3840x2160p 23.98/24/25/29.97/30/59.94/60
    - 2560x1080p 23.98/24/25/29.97/30/50/59.94/60
    - 1920x1080p 23.98/24/25/29.97/30/50/59.94/60/100/119.88/120
    - 1920x1080i 25/29.97/30/50/59.94/60
    - 1280x720p 23.98/24/25/29.97/30/50/59.94/60/144
    - 720x576p 50/100/144
    - 720x576i 25/50
    - 720x480p 59.94/60/144
    - 720x480i 29.97/30
- 8/10/12-bit color
- Input & loopthrough 8-Channel, 24-bit HDMI embedded audio, 192kHz sample rate
- Input audio from 3.5mm microphone
- HDMI Input and loop-through interfaces: HDMI 1.4a, DVI-D

Encoding Features

- Dual stream encoding: main stream and sub stream
- Max bitrate:
    - Main Stream - 8Mbps
    - Sub Stream - 2Mbps
- Supported resolutions:
    - HD: 1920x1080, 1600x1200, 1600x900, 1440x1080, 1440x900, 1280x1024, 1280x960, 1280x800, 1280x720, 1024x768
    - SD: 960x540, 800x600, 768x576, 720x576, 720x540, 640x480, 640x360, 480x360, 480x270
- Supported frame rates: 60/59.94/50/30/29.97/25/24/15/10/5fps
- H.264/H.265(HEVC) video encoders
- Encoding 2-channel AAC at 48kHz, 16-bit
- Supported audio bitrates: 256/192/128/96/64/48/32/16 kbps
- Extracting audio from HDMI signal and output through 3.5mm headphone
- Encoding videos after de-interlacing

Streaming Features

- Natively support streaming to Facebook, Twitch and YouTube
- Supported streaming protocols including RTSP/RTMP/RTMPS
- Up to 2 streaming sessions simultaneously

Recording Features

- Recording to a USB flash drive, internal SD storage and paired mobile device simultaneously
- To a USB Flash Drive
    - support auto-recording, normal recording
    - recording as MP4 or MOV files
- To internal SD storage (32GB)
    - support auto-recording

- support loop-styled or normal recording
- recording as MP4 or MOV files
- uploading recorded videos to a specified FTP server
- To paired mobile device
  - recording as MP4 files
  - taking still image snapshots during recording
  - timer recording at 15s, 30s, 1min, 2min, 5min

Configuration Management

- Support registration on Magewell Cloud platform
- Remotely control with App, WebUI and Magewell Cloud
- Provide comprehensive information regarding the system information of device and working status in real-time
- Configure parameters of volume and color, input and output signals, stream profiles, no signal image, the Ethernet and Wi-Fi connection, as well as date and time
- Update firmware
- WebUI supports IE/Edge/Firefox/Chrome/Safari/Opera web browsers
- Provide HTTP APIs

Network

- Wired Ethernet network: 10/100/1000Mbps
- Wi-Fi 802.11 a/b/g/n/ac
- 3G/4G USB mobile broadband Modem (not included)
- Bluetooth 4.0 BLE

LED Indicators

- Indicate the state of the input signal, Ethernet Network, Wi-Fi, USB flash drive
- Indicate the working state of the device: startup, recording, streaming, updating

Power Supply and Consumption

- DC 5V/2A
- Max power consumption: ~9.6 W

Form Factor

- 94.20mm x 94.20mm x 22.30mm

Accessories

- AC adapter
- HDMI cable

Working Environment

- Operating temperature: 0 to 40 deg C
- Storage temperature: –20 to 70 deg C
- Relative humidity: 5% to 90% non-condensing