

# MAGEWELL

## Ultra Stream HDMI Technical Specifications

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### Supported Mobile Clients

- Android
  - Android 5.0 and above
- iOS
  - iOS 9.0 and above
- iPhone
  - iPhone 6s and above
- iPod Touch
  - iPod Touch 7 and above

### Supported Web Browser

- Microsoft Internet Explorer 11
- Microsoft Edge
- Mozilla Firefox version 61 and above
- Google Chrome version 49 and above
- Apple Safari 11.1 and above
- Opera 55.0.2994.44 and above

### Input Interfaces

- HDMI
  - HDMI 1.4a
- 3.5mm audio jack
  - Microphone interface

### Output Interfaces

- HDMI
  - HDMI loop-through
- USB
  - USB 2.0
- 3.5mm audio jack
  - Headphone interface

### Network Interfaces

- Wired Ethernet
  - 10/100/1000Mbps Ethernet
- Wi-Fi
  - IEEE 802.11 a/b/g/n/ac
- USB
  - USB 3G/4G Modem (not included)

## Bluetooth

- Bluetooth 4.0 BLE

## HDMI Specific Features

- Support for up to 4096x2160 4:4:4/4:2:2 30fps or 4096x2160 4:2:0 60fps input and loopthrough signals
- Support for 8/10/12-bit color depths
- Support for 60p, 60i, 50p, 50i, 30p, 25p signal formats
- For 4:2:0 input signals, the horizontal and vertical resolution will be reduced to 1/2 for capturing
- For 4:4:4/4:2:2 input signal at more than 170MHz, the horizontal and vertical resolution will be reduced to 1/2 for capturing.

## Analog Audio Features

- Extracting stereo embedded HDMI audio for recording, streaming and output via headphone interface
- Recording and streaming analog audio from the 3.5 mm microphone interface

## Encoding Features

- Support for H.264/HEVC (video) and AAC High Quality (audio) encoding
- Support for video bitrates of up to 8Mbps for the Main Stream and 2Mbps for the Sub Stream
- Support for encoding at input signal resolutions up to 1920x1080, including these lower resolutions: 1600x1200, 1600x900, 1440x1080, 1440x900, 1280x1024, 1280x960, 1280x800, 1280x720, 1024x768, 960x540, 800x600, 768x576, 720x576, 720x540, 640x480, 640x360, 480x360, 480x270
- Support for 60fps, 59.94 fps, 50fps, 30fps, 29.97 fps, 25fps, 24fps, 15fps, 10fps and 5fps frame rates

## Streaming Features

- Support for live streaming using RTMP/RTMPS protocol to software including Flash Media Server, Wowza, Red5 and Nginx server
- Support for RTSP protocol
- Support for streaming to Facebook, Twitch and YouTube platforms
- Support for streaming to multiple destinations, up to 2 servers simultaneously
- Support for specifying network priority when multiple networks are connected

## Recording Features (to device & USB Flash Drive)

- Support for recording to USB Flash Drive and internal storage (32GB)
- Support for loop recording
- Support for auto-recording when the input signal is stable
- Support for recording video clips in different durations
- Support for recording as MP4 or MOV files
- USB Flash Drive file system formats: FAT32, NTFS, exFAT, VFAT
- Support for downloading video clips which are stored in device storage using the WebUI

## Recording Features (to Mobile Device)

- Support for recording at up to 1280x720, 30fps
- Support for recording as MP4 files
- Taking still image snapshots during recording
- Saving recording files and screenshots to system album
- Previewing the main and sub streams
- Timer recording: 15s, 30s, 1min, 2min, 5min

## Remote Control Features

- Support for connecting the device via Wi Fi, wired network, and device hotspot (i.e. AP mode)
- Support for connecting smart phone Wi-Fi to the device hotspot (i.e. AP mode)
- Support for remotely controlling the device using WebUI and app
- Support for remotely checking the device status
- Support for setting volume, network, recording and live streaming parameters
- Support for checking and safely updating device firmware (or resetting to the factory firmware version)
- Support for simultaneous main stream and sub stream encoding with customizable parameters
- In-app online help

- Support for multiple users logging-in simultaneously
- Support for device configuration using the WebUI

## **LED Indicator**

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

## **Form Factor**

- 94.20mm x 94.20mm x 22.30mm

## **Accessories**

- AC adapter

## **Power Supply and Consumption**

- Power port
  - DC 5V/2A
  - 2.1mm x 5.5mm socket, centre pin positive
- Max power consumption: ~6.0 W

## **Working Environment**

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