MAGEWELL

Ultra Stream SDI Technical Specifications

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Supported Mobile Clients

- Android
  - Android 5.0 and above
- iOS
  - iOS 9.0 and above
- iPhone
  - iPhone 5s
  - iPhone SE
  - iPhone 6 / iPhone 6s / iPhone 6 Plus / iPhone 6s Plus
  - iPhone 7 / iPhone 7 Plus
  - iPhone 8 / iPhone 8 Plus
  - iPhone X
- iPod Touch
  - iPod Touch 5
  - iPod Touch 6

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

- BNC
  - SD/HD/3G SDI
- 3.5mm audio jack
  - Microphone interface

Output Interfaces

- BNC
  - SD/HD/3G SDI
- 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

SDI Specific Features

- Support for SD/HD/3Ga/3Gb/3Ga-DL/3Gb-DS standards
- Support for 2K (2048x1080) input and loopthrough signals
- Support for 8/10/12-bit color depths
- Support for 60p, 60i, 50p, 50i, 30p, 25p signal formats
- Limited support for the first stream of 3Gb-DS
- Limited support for the first link of dual link interfaces
  - YCbCr 4:2:2 10-bit 1080p 50/59.94/60: output as 1080i 50/59.94/60
  - YCbCr 4:4:4 10-bit: output as 4:2:2
  - RGB 4:4:4: R/B sub-sampled

Analog Audio Features

- Extraction of stereo embedded SDI audio for recording and output via 3.5mm stereo mini-jack Line Out
- Recording and streaming analog audio via 3.5 mm microphone interface

Streaming Features

- Support for live streaming using RTMP protocol to software including Flash Media Server, Wowza, Red5 and Nginx server
- Streaming to Facebook, Twitch and YouTube platforms
- Support for streaming to 2 servers simultaneously

Recording Features (to USB Flash Drive)

- Support for H.264/HEVC (video) and AAC High Quality (audio) encoding
- Supports recording at input signal resolution up to 2048x1080
- Support for 1920x1080, 1600x1200, 1440x1080, 1440x900, 1280x1024, 1280x960, 1280x800, 1280x720, 1200x900, 1024x768, 960x540, 800x600, 768x576, 720x576, 720x480, 640x480, 640x360, 480x360 resolutions
- Support for 60fps, 50fps, 30fps, 25fps, 24fps, 15fps frame rates
- Support for recording as MP4 files
- USB Flash Drive file system format: FAT32, NTFS, exFAT, VFAT

Recording Features (to Mobile Device)

- Support for recording at up to 1280x720, 30fps
- Support for recording as MP4 files
- Take still image snapshots during recording
- Save recording files and screenshots to system album
- Input signal previewing
- Timer recording: 15s, 30s, 1min, 2min, 5min

Remote Control Features in App

- Remotely control recording and streaming
- Remotely check device status by multiple users simultaneously
- Support for setting volume, network, recording and live streaming parameters
- Support for checking and safely updating device firmware (can also reset to factory firmware version)
- Simultaneous main stream and sub stream encoding with customizable parameters
- The bitrate for main stream is up to 8 Mbps while for sub stream is 1 Mbps
- Support for modifying output AAC bitrate
- In-app online help
- Support for multiple users log-in simultaneously
- Support for device configuration using Web UI

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, update

Form Factor

- 94.20mm x 94.20mm x 28.50mm

Accessories

- AC adapter

Power Supply and Consumption

- Power port
  - 5V/2A
- 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