KILOVIEW®

KILOVIEW® M2

HDMI&VGA Video Encoder

Focused on demonstration, teaching, game and medical application

Product overview

KILOVIEW® M2 is a professional HD HDMI/VGA H.264 video encoder. Small size and ultra-low consumption design! M2 is compatible with HDMI 1.4/HDCP 1.4 standards, supporting video input and encoding up to 1080p60; VGA interface supports various video resolution ratio that conforms to VESA standard from VGA to WUXGA, maximum is up to 1920x1200@60Hz.

M2 supports unbind audio from HDMI signal, also input audio from Analog Line-in for AAC (MPEG4-Audio) stereo audio encoding or G.711 audio encoding.

M2 allows you to check and review through WEB management. Easy operation and multi-language supported for worldwide users.

Features

◉ High integration, portable, low consumption, high performance

M2 can support 1080p60 Full HD video encoding, meanwhile enabling up to 960x540@60Hz sub-stream encoding. Under typical case, overall power consumption is <=4W.

◉ Low bit rate assuring nice image and quality audio

M2 adopts VLB (Very Low Bit Rate) H.264 video encoding technology, bonding with preceding video processor to do video dynamic noise reduction, image enhancement, etc. Generally, 1Mbps@720p, 1.5Mbps@1080p can achieve good video encoding quality, which meet needs of low bit rate and quality image under internet applications.

◉ Powerful streaming media protocols supported and full service function

M2 built in SUNSHINE streaming media engine, fully support RTP/RTSP/RTMP/HLS/TS. Through protocols like RTMP/TS and other, it could push live video to many global live video platform/CDN. M2 itself is light-weight streaming media server, which can allow 20-50 concurrent users to access simultaneously.

M2 supports Onvif 1.1/2.0 that can be easily connected to secure safety system/NVR system.

◉ Easy operation and professional quality.

M2 allows you to use Web interface to manage device. Using and setting are very easy. It is widely used in broadcast and TV, interactive media, medical, network education, secure safety and other fields, professional and stable.

Differentiation of the Kiloview encoder product

U1	U2	G1	G2	M2
Signal input: HD-SDI	Signal input: HDMI	Signal input: HD-SDI	Signal input: HDMI	Signal input: HDMI or VGA.
Formats: 1080p, 720p;		Formats: 1080p, 1080i, 720p;		Formats:1080p,1080i,720p;
Up to 25 Mbits/s		Up to 25 Mbits/s		Up to 25 Mbits/s
WiFi, Ethernet		WiFi, Ethernet, USB 4G-LTE		Ethernet
× Micro SD card recording		Micro SD card recording		Micro SD card recording
RTP/RTSP,RTMP,HLS,TS		RTP/RTSP,RTMP,HLS,TS		RTP/RTSP,RTMP,HLS,TS

Other features

- ✓ Supported global live video platform (tested): YouTube, UStream, Twitch and so on.;
- ✓ Supported streaming media server platform/CDN system (tested): Wowza, FMS, RED5, SRS, etc.;
- ✓ Local storage and recording based on Micro SD/TF card and/or USB Storage;
- ✓ Support image rotation, cutting, gray scale and other special image processing;
- ✓ Support character /image overlay;
- ✓ Support quick function customization based on customers' needs (Please contact salesman and factory technical support);
- ✓ Two-way voice intercom function (based on factory provided solutions or for customization according to applications requirements).

Interface	Video input	1* HDMI
		1* VGA
	Analog video input	1*3.5mm
	Analog video output	1*3.5mm
	Wired network	1*RJ-45, 10/100M self-adaptive Ethernet
	USB	1*USB 2.0 Mini-USB

| Network support | Wired/Ethernet | Built-in support |
| | | |

Signal and formats	HDMI / VGA	HDMI 1.4 downward compatible VGA/XGA/UVGA/SVGA/SXGA/SXGA+/ WXGA/WXGA+/WSXGA/WUXGA
	Supported video formats	1080p/1080i/720p/480p/576p /480i/576 (up to 60Hz) Compatible with VESA display resolution, up to 1920*1200@60
	Audio	HDMI unbind audio (stereo) Analog Line-in/Line-out (stereo)

Encoding	Video encoding	H.264/AVCHigh profile (up to level 5.1), compatible with Main profile and Baseline
	Audio encoding	AAC/MPEG4-Audio, G.711(u-Law/a-Law) [other algorithm can be extended]
	Encoding delay	≤67ms
	Video encoding resolution	256Kbps ~ 25Mbps adjustable
	Audio encoding resolution	32Kbps ~ 512Kbps : AAC64Kbps : G.711

Transmission protocols and Management protocols	Transmission protocols	RTP / RTSP (compatible RTP over RTSP, RTSP HTTP Tunnel and RTSP Multicast) RTMP pushing, RTMP service, TS over UDP, HLS
	Private protocols	KMP (KILOVIEW Media Protocol)
	control/management protocol	Onvif 1.1/2.0 KCP (KILOVIEW Control Protocol) WindTalk compatible with private protocols
	Management protocol	HTTP

Management ways	Management interface	Web
	Remote management	Support
	Online firmware updating	Support

Working environment	Power	DC 12V 1A
	Operating temperature	-20℃ ~ 60℃
	Relative humidity	20 ~90%RH(un condensation)
	Power consumption	4W Max

Size and accessories	Size	7.16 x 4.8 x1.42"/ 182 x 122 x 36mm
	Weight	21.16oz / 600g
	Power adapter	External DC 12V 1A adapter

Product appearance

36MM

182MM

122MM