

VCell[®] P2

4G Bonding Video Encoder

Built-in dual 4G, WiFi, professional HDMI H.264/AVC encoder

Product overview

P2 is a professional HDMI H.264 video encoder, designed for outdoor broadcaster, applied in video image transmission. Small size and ultra-low consumption design! It supports up to 1080p60 input. Input HDMI signal through preceding image processor for image enhancement, then encoding by SOC processor for creating H.264 video encode featured with high performance and low bit rate. P2 supports unbind audio from HDMI signal, also input audio from Analog Line-in for AAC (MPEG4-

20-50 concurrent users access simultaneously

P2 built in battery can support working 3 hours. And users can prolong working time with the help of mahile power back. Easy operation and eavyogingt

P2 is equipped with bracket and hot shoe screw, fixed well on the camera. Button design between bracket and camera makes device disassemble very easily.



• High integration, portable, low consumption, high performance

P2, small size of 115mm*75mm*35mm, integrates FPGA, video co-processor and video encoding chip. It is built-in two 4G-LTE modems, IEEE 802.11 b/g/n/ac dual-band (2.4G/5.8G) WI-FI model and built-in lithium battery. P2 can support up to 1080p60 Full HD video encoding, meanwhile enabling up to 960x540@60Hz sub-stream encoding.

Very low power consumption. Under typical case by opening dual 4G modules, overall power consumption is <=6.5W. Matched up with 6800mAh lithium battery can work for 3 hours.

C Low bit rate assuring nice image and quality audio

P2 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.

Support Wi-Fi and 4G-LTE

P2 has built-in two 4G-LTE modules, working with SIM card. It supports bonding work of multiple 4G-LTE modules to enhance bandwidth and improve transmission reliability. P2 also supports built-in IEEE 802.11 b/g/n/ac dual-band (2.4G/5.8G) WI-FI model.

• Powerful streaming media protocols supported and full service function

P2 needs to work with Kiloview CellCentre 4G bonding streaming media platform (software). CellCentre platform is a cloud server platform provided by Kiloview, connected via Phone APP to enable or stop 4G bonding service. CellCentre fully supports RTMP/HLS/TS and RTP/RTSP/ protocols. CellCentre push bonded video streaming live to many global live video platforms, or providing video transit and distribution, 20–50 concurrent users to access simultaneously.

{Note: Only with P2 hardware couldn' t realize bonding transmission, but could realize normal encoding/transmission and pushing functions}

• Easy operation and professional quality

P2 allows you to use Web interface to manage device, as well as Phone/PAD App.



- 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;
- Support image rotation, cutting, gray scale and other special image processing;
- Support character /image overlay;
- Support quick function customization (Please contact salesman or factory technical support);
- S Two-way voice intercom function (based on factory provided solutions or for customization).

• Main parameters

Interface	Video input	1*HDMI		Transmission protocols	RTP / RTSP (compatible RTP over RTSP, RTSP HTTP Tunnel and RTSP Multicast) RTMP pushing, RTMP service, TS over UDP, HLS
	Analog video input	Based on USB extend Microphone input or Line-in input	Transmission protocols and Management protocols		
	Analog video output	Based on USB extend Headphone input or Line-out output			
	SIM card slot	2*Micro SIM card slot			
	USB	2*USB 2.0 Type-A			
	Micro SD	1*Micro SD/TF Card storage interface		Management protocol	HTTP
Operation button	Red button	Power key	Management ways	Management interface	Web and Android APP
	Black button	Function key			
	Blackbatton	i dictorrey		Remote management	Support
Network support	4G-LTE built-in	4G-LTE module		Online firmware updating	Support
	Wi-Fi	-Fi Built-in Wifi module, IEEE 802.11 b/g/n/ac Dual-band (2.4G/5.8G), external antenna	Working environment	Power	DC 12V 1A
	VVI II			Operating temperature	-4 to 131° F/-20 to 55° C
				Relative humidity	20~90%RH(un condensation)
Signal and formats	HDMI interface standard	HDMI 1.4a	Size and accessories	Power consumption	6.5W Max
	Supported video formats	1080p23.98/24/25/29.97/30 1080p50/59.94/60 1080i50/59.94/60 720p23.98/24/25/29.97/30		r ower consumption	0.5W Wax
				Size	115 x 75 x 35 mm
				Weight	420g
				Wi-Fi antenna	Built-in PCB antenna
		720p50/59.94/60 and other resolutions ≤ 1920x1200		4G antenna	3db rod-like antenna
	Audio	stereo HDMI embedded audio		Power adapter	External DC 12V 1A adapter
Encoding	Video encoding	H.264/AVCHigh profile (up to level 5.1), compatible with Main profile and Baseline	Battery	Standard	built-in lithium battery, external I5V mobile power supply
				Volume	3.7V 6800mAh (29.6Wh)
	Multi-stream supported	Support multi-stream encoding, including Main /Sub stream and Motion JPEG image encoding Main stream: up to 1080p60,the highest bitrate is 30Mbps Sub stream: up to 960*540,the highest bitrate is 4Mbps Motion JPEG: up to 1920*1080 encoding		Life time	> 3 hours
				Fixing	1/4" hot shoe screw
				Charging methods	12V 1Apower adapter charging
	Audioencoding	AAC/MPEG4-Audio, G.711 (u-Law/a-Law) {Other algorithm can be extended}	Contact us		
	Encoding latency	≤67ms	Email: info@kiloview.com Web: en.kiloview.com		
	Video encoding bitrates	256Kbps~30Mbps adjustable			
	Audio encoding bitrates	32Kbps ~ 512Kbps : AAC encoding 64Kbps : G.711 encoding			