PRELIMINARY TECHNICAL DATASHEET

Vcan2236

Dual-Channel USB UVC Video Encoder to IP Ethernet

Two USB camera inputs | Independent network video streams | Standalone encoder

SKU: Vcan2236 | Product page: https://ivcan.com/p/dual-channel-usb-video-encoder-to-ip-ethernet-streaming/

1. Product Overview

Vcan2236 is a standalone hardware video encoder designed to accept two USB UVC camera inputs and deliver video over an Ethernet network. It supports H.264/H.265 encoding and multiple streaming and integration protocols. The product specification states that both USB camera inputs can operate simultaneously with independent processing.

2. Key Features

- Two USB UVC camera inputs with simultaneous dual-camera operation.
- Independent processing for the two camera inputs.
- H.264 / H.265 video encoding; MJPEG/JPEG support is also listed.
- RTSP, RTMP/RTMPS, HLS, UDP/multicast and SRT streaming protocols.
- HDMI monitoring output up to 4K at 30 fps.
- Web-based device management; standalone operation without a PC.

3. Technical Specifications

Model / SKU	Vcan2236
Video input	2 × USB UVC camera inputs; simultaneous operation supported
Input resolutions listed	3840×2160, 1920×1080, 1280×720, 1600×1200, 1440×900, 1024×768, 800×600, 640×480
Encoding capability listed	4K30 × 1; 1080p60 × 2; 1080p30 × 4 (platform capability stated on product page; exact dual-UVC mode should be confirmed for the customer's cameras)
Video codecs	H.265 (HEVC) Main Profile; H.264 High/Main/Baseline; MJPEG/JPEG
Frame rate	1–60 fps adjustable, subject to input format and encoding mode
Video bitrate	Up to 20 Mbps per channel
Bitrate control	CBR / VBR / AVBR / FIXQP
Network interface	10/100 Mbps Ethernet, RJ45
Streaming protocols	RTSP; RTMP/RTMPS; HTTP/HLS; UDP/multicast; SRT; NDI HX (license required); GB28181; ONVIF
Audio	USB audio input/output, stereo 48 kHz; HDMI embedded audio; 3.5 mm Mic In / Line Out
Audio codecs	AAC / MP3 / PCM / OPUS / MPEG2
HDMI output	Up to 4K at 30 fps
Processor	ARM Cortex-A7 quad-core, 1.2 GHz
Memory	2 GB DDR4 RAM; 8 GB eMMC flash
Storage	USB external storage; approximately 6 GB internal storage available
Power input	USB Type-C; PD / QC supported
Power consumption	Up to 20 W
Dimensions	60 × 76 × 19 mm
Weight	Approximately 100 g
Operating temperature	0°C to +70°C

4. Network Streaming and Browser Integration

The published specification lists RTSP, HTTP/HLS, RTMP/RTMPS, UDP/multicast and SRT. MJPEG is listed as a supported video format/encoding option, but a dedicated HTTP-MJPEG endpoint is not explicitly documented. WebRTC is not listed as a standard supported protocol.

Separate network stream addresses for the two cameras are required for independent camera access, but the exact URL paths and ports are not published. These must be confirmed with the final firmware configuration before shipment.

HLS can be displayed in compatible browsers, sometimes with an HTML5 playback library. RTSP is not natively playable by most standard browsers without a gateway or browser-compatible playback method. A custom HTML page displaying both cameras is feasible subject to confirmation of the stream format, URL configuration and target browsers. Plugin-free playback is not guaranteed for every protocol/browser.

5. Customer Application: Two 1080p30 UVC Cameras

The product page confirms simultaneous dual USB UVC camera input and lists 1080p60 × 2 encoding capability for the platform. However, it does not provide a camera-by-camera compatibility matrix or a specific qualification report for two arbitrary UVC webcams operating continuously at 1920 × 1080, 30 fps. Therefore, this exact operating point should be confirmed by an engineering test.

For compatibility verification, please provide each webcam's manufacturer and model, USB version (USB 2.0/3.0), pixel format (such as MJPEG, YUY2/YUYV or UYVY), and confirmation that both cameras must stream continuously at the same time. A sample test with both cameras connected is recommended.

6. Physical Configuration and Accessories

The published mechanical specification is 60 × 76 × 19 mm and approximately 100 g. USB Type-C power input is specified, with PD/QC support and up to 20 W power consumption. The public specification does not clearly define the exact enclosure version, power adapter rating, cable set or package contents. These items must be confirmed in the quotation if a complete enclosed unit with power supply is required.

7. Ordering Information

- Model: Vcan2236.
- Configuration: Dual USB UVC camera input to IP Ethernet streaming.
- Public product page: https://ivcan.com/p/dual-channel-usb-video-encoder-to-ip-ethernet-streaming/.
- The website currently displays USD 138.00 as the reference listing price. Final quotation, enclosure and power-supply configuration, accessories, shipping and firmware customization are subject to confirmation.

8. Information Required for Final Compatibility Confirmation

- USB webcam manufacturer and exact model number for each camera.
- Required video mode: 1920 × 1080 at 30 fps for each camera simultaneously.
- USB connection requirement: USB 2.0 or USB 3.0.
- Camera pixel format: MJPEG, YUY2/YUYV, UYVY or other.
- Preferred streaming protocol and target browser/operating system.
- Whether each camera must have a separate URL and whether browser playback must be plugin-free.

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Preliminary datasheet prepared from currently published product information. Unpublished details and customer-specific performance must be confirmed by iVcan engineering before order.