

VB-300u

Compact industrial streaming encoder & recorder



vemotion
More video, less bandwidth

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The Vemotion VB-300u is a compact industrial hybrid streaming encoder & recorder suitable for a wide variety of mobile (taxi, bus & coach, truck, train) or general video transmission applications.

Greatly enhancing streaming performance, the industrial standard VB-300u multi-media encoder delivers extremely low latency, high-quality images, even over low-bandwidths. Supporting 2 Full High Definition (FHD) cameras and simultaneous streaming of two FHD streams, the new encoder can also locally record video footage using its on-board 2TB SSD. For installation flexibility, the VB-300u can be used within a wide temperature range of 0°C - 55°C and for installation where space is at a premium.

Capitalising on the latest 4-core Intel processor technology, the new VB-300u delivers low latency and high-quality images transmitted at efficient bitrates, making it ideal for use within the most challenging of wireless (GPRS, LTE, 3G/4G/5G, Wi-Fi and Satellite), or wired (UTP and fibre) network conditions.

Plug & play and ONVIF compliant, the VB-300u is suitable for a wide variety of mobile (taxi,

bus & coach, truck, train) or general video transmission applications. It employs a rugged and compact design, and on-board SIM carrier for easy integration into any mobile network.

Employing Vemotion's latest streaming technology, the VB-300u can provide substantial cost-of-ownership savings, as it does not require special SIM cards to operate, such as those with a fixed IP address. In fact, any mobile SIM card can be used to stream the best quality camera images available, allowing CCTV system operators to take advantage of the best performing local network coverage, allied to and the most economical SIM pricing plans. In short, the VB-300u's advanced functionality allows streamed video to be automatically transmitted in the best quality, allied to the lowest possible bit rate, to avoid users racking-up costly bandwidth usage and quickly reaching their monthly data cap.



Key features:

- Video & audio real-time streaming
- Private, secure and encrypted
- 2 x Full HD Ethernet camera inputs
- 2 x Full HD output streams
- Video is time/date stamped
- Transmission over GPRS, LTE, 3G/4G/5G, Wi-Fi and Satellite
- Plug & play integration into third party VMS
- ONVIF compatible
- Optimised H.265 compression

Technical specification:

System

| | |
|-----------|------------------------|
| Processor | Intel Pentium N4200 |
| Memory | 4GB Dual Channel |
| OS | Ubuntu 18.04 LTS |
| Storage | 2TB SSD for recordings |

Ports

| | |
|-------------|---|
| Ethernet | 2 x Gigabit Ethernet |
| Modem | 1 x 4G modem. 5G option available |
| USB | 3 x USB 3.2 Gen 1 (Type A) 1 x USB 3.2 Gen 1 OTG |
| Digital I/O | 8 x DIO, configurable as input or output |
| COM | 2 x RS232/422/485 |

| | |
|---------|------------------------------|
| Display | 1 x HDMI 1 x Display Port |
| Audio | 1 x Line out + mic in |

Environment

| | |
|----------------|---|
| Power | 12 ~ 24 V DC in (lockable) |
| Dimensions | 117 x 106.5 x 88.8 mm |
| Weight | 982.5g |
| Operating Temp | 0°C ~ 55°C (32°F ~ 140°F) with air flow 0.5m/s |
| Humidity | 0% to 90% relative humidity, non-condensing |
| Certification | CE/FCC Class A, RoHS Compliant , REACH |