VB-30 Compact Hybrid
Encoder and Recorder

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More video, less bandwidth

VB-30

The **VB-30** from Vemotion is a compact multi-channel hybrid recording and transmission unit supporting a mix of SD and HD, Analogue and IP, HDMI, HD-SDI, audio and video.

The VB-30 from Vemotion is a multi-channel hybrid recording and transmission unit supporting options for Analogue and IP, HDMI, HD-SDI inputs. It offers outstanding value and flexibility in a very small package.

Its many standout features include its amazing low latency and sheer high quality of the images transmitted at efficient bitrates, as well as its ability to support a variety of input types. It is suitable for a wide variety of different applications across many different environments. The VB-30 is designed to deliver bandwidth efficient live video transmission and control in even the most challenging wireless and wired network conditions.

Simplicity of operation makes the VB-30 a compelling choice when you need to flexibility to choose IP or Analogue cameras or both simultaneously, within such a compact package. Multiple channels of transmission from the same unit are also possible with additional licensing.

Further user-friendly features include the ability to define the on-board recording and transmission parameters, together with a local user interface for full rate camera viewing and control (including recorded footage playback).

The VB-30 makes use of Vemotion's optimised video compression and unique, low latency, V-TX transmission technology; technology which is fully encrypted and secure. This further differentiates it within the marketplace, while delivering ease of use and rock-solid performance.

All Vemotion's products are designed to be 'plug & play', to be highly reliable, and to put you in complete control of the bandwidth used. Also, they all work without the need for any specialist SIM cards or expensive airtime contracts, so keeping usage costs to a minimum.

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VB-30 Specification

Environmental

Operating Temp.	-30°C ~ 70°C with SSD, 100% CPU loading & -10°C ~ 60°C with HDD, 100% CPU loading **/***
Storage Temp.	-40ºC ~ 85ºC
Humidity	10 ~ 90% (non-condensing)
Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, w/o add-on card, according to IEC60068-2-27)
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, w/o add-on card, according to IEC60068-2-27)
EMC	CE/FCC Class A, according to EN 55022 & EN 55024

Panel

Ethernet	2x Gigabit Ethernet ports
PoE	Options are available on request @25W
Video Port	1x DVI-I connector for both analogue RGB and DVI/HDMI outputs, supporting up to 2560 x 1600 resolution
Serial Port	1 video in, 1 RS232 & 1 RS485, RS422 also available on request if only 4 analogue video required
USB	1x USB 3.0 port, 1x USB 2.0 port, 2x USB 3.0 ports to be used for modem and Wi-Fi
Video/Audio	9 Way D Type to 4 BNC for video input and 4 phono for mic level audio input
	(also available in an 8 analogue version)
DIO	4-CH 5V TTL DI + 4-CH 5V TTL DO

System Core

Processor	Intel® Atom™ E3845 1.91 GHz quad-core processor

Storage

SATA HDD	1x 1TB internal HDD as standard. SSD options are available

Power

DC Input	Built-in 8~35 VDC DC input
Input Connector	2-pin pluggable terminal block for DC input
Power Consumption	Typical: 7.68W (0.32A@24V), Full-loading: 13.44W (0.56A@24V)*

Mechanical

Mounting	Wall-mount (Standard), DIN-rail mount (Optional)
Weight	1.1 kg (with one 2.5" SATA HDD)
Dimensions	149mm (W) x 105 mm (H) x 58 mm (D)

* Full-loading power consumption is measured with 2GB DDR3 memory and one 2.5" SATA HDD installed under the following conditions:- 100% loading for Atom E3845 CPU- 100% loading for 3D graphics- 100% loading for GbE port

** The 100% CPU loading is applied using Passmark® BurnInTest™ v7.0. For detail testing criteria, please contact Neousys Technology
*** For sub-zero operating temperature, wide-temperature DDR3-L and wide-temperature HDD/SSD are required

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