

# VE-7004 Hardware Compression Card

4-CH, H.264, PCIe, 120fps D1 Resolution, Multi-CODEC



## Overview ▶

The Vecow VE-7004 is an advanced and high-performance 16-channel hardware compression card with a PCIe interface. Capable of full D1 compression at 120fps using the highly efficient H.264 CODEC, the card breaks new ground in channel density and performance. VE-7004 board uses fully optimized algorithm based on DSP technology to implement video & audio real-time encoding, active video & audio preview and motion detection, etc. Video image is directly transmitted from board to display frame buffer and compressed stream is also directly sent to host's memory. The result is a dramatic reduction in bit rates with a corresponding reduction in storage and operating.

## Key Features ▶

- ◆ 4-CH live view, H.264 hardware compression
- ◆ 120fps recording rate, support full D1 resolution for clear images with less CPU loading
- ◆ Real time video and audio compression, no frames lost
- ◆ Multi-CODEC intelligent encoding with constant quality modes
- ◆ Standard PCIe card, one PC can support up to 64 channels
- ◆ Complete software development kit is available

## Specification >

### Mechanical

Interface	PCIe x1
DVI	1
Dimensions	156 x 95 x 17 mm
Shipped With Cable	1
Certifications	FCC, CE, RoHS Compliance

### Video

Maximum Channel Number	4
Video Input Connector	1x 4 Input BNC to DVI
Total Recording Rate	4 CH, 120 fps (NTSC) / 100 fps (PAL) @D1
Resolution	D1 (NTSC: 720 x 480 / PAL: 720 x 576) CIF (NTSC: 360 x 240 / PAL: 360 x 288) 4CIF (NTSC: 704 x 480 / PAL: 704 x 576) DCIF (NTSC: 528 x 320 / PAL: 528 x 384) QCIF (NTSC: 180 x 120 / PAL: 180 x 144)
Video Compression Format	H.264 / MJPEG

### Audio

Maximum Channel Number	4
Audio Input Connector	1x 4 Input RCA to DVI
Audio Compression Format	G.711

### Other Features

Video Output	NTSC / PAL Analog "Rolling" SMO or Matrix Display Support Live View
Video Preprocessing	De-Interlacing User-Defined Capturing Overlays
Analytics	Motion Detection Blind and Tamper Detection Night Detection
Privacy Regions	User-Defined Privacy Regions
OS Support	Windows XP, Vista / Linux RHEL5.2 / CentOS 5.2
Alarm and Trigger Support	4 Optically Isolated Inputs 4 Relay Outputs
(Only Available on Optional Daughter Cards)	

## Ordering Information >

Part Number	Description
VE-7004	4-CH, H.264, PCIe, 120fps D1 Resolution, Multi-CODEC, 1 Cable Included
CB-150441	Cable with 4-CH Video Input (BNC) and 4-CH Audio Input (RCA) to DVI