



**DS-42xxHCI/HFVI Series Audio/Video
Compression Card
Technical Manual**

Version 4.4
2009-05-23

Model
DS-4216HFVI
DS-4208HFVI
DS-4216HCI

Notices

The information in this documentation is subject to change without notice and does not represent any commitment on behalf of HIKVISION. HIKVISION disclaims any liability whatsoever for incorrect data that may appear in this documentation. The product(s) described in this documentation are furnished subject to a license and may only be used in accordance with the terms and conditions of such license.

Copyright © 2006-2010 by HIKVISION. All rights reserved.

This documentation is issued in strict confidence and is to be used only for the purposes for which it is supplied. It may not be reproduced in whole or in part, in any form, or by any means or be used for any other purpose without prior written consent of HIKVISION and then only on the condition that this notice is included in any such reproduction. No information as to the contents or subject matter of this documentation, or any part thereof, or arising directly or indirectly therefrom, shall be given orally or in writing or shall be communicated in any manner whatsoever to any third party being an individual, firm, or company or any employee thereof without the prior written consent of HIKVISION. Use of this product is subject to acceptance of the HIKVISION agreement required to use this product. HIKVISION reserves the right to make changes to its products as circumstances may warrant, without notice.

This documentation is provided “as-is,” without warranty of any kind.

Please send any comments regarding the documentation to:
overseabusiness@hikvision.com

Find out more about HIKVISION at www.hikvision.com

Contents

1. Overview	1
2. Model Description	3
3. Product Features	4
4. Technical Specification	5

1. Overview

DS-42xxHCI/HFVI series card is one of HIKVISION's new generation audio & video compression products. It adopts high performance video processing chip with low power consumption, and can be used for real time audio & video capturing and encoding. A PC-DVR system can be constructed via application software with functions of video streaming and storage. The DS-42xx series card includes models as DS-4216HCI, DS-4208HFVI, DS-4216HFVI, etc.



DS-4216HFVI



DS-4208HFVI



DS-4216HCI

2. Model Description

- **DS-4216HFVI**
Support 16ch 4CIF/2CIF/CIF/QCIF real time encoding
*Support up to 16ch 4CIF (main stream) +16ch CIF (sub stream) encoding on dual stream mode

- **DS-4208HFVI:**
Support 8ch 4CIF/2CIF/CIF/QCIF real time encoding
*Support up to 8ch 4CIF (main stream) + 8ch CIF (sub stream) encoding on dual stream mode

- **DS-4216HCI**
Support 16 channel CIF/QCIF real time encoding
*Support up to 16ch CIF (main stream) +16ch CIF(sub stream) encoding on dual stream mode

Notice

1. All the recording performance testing is done under normal office scene with color camera input, and the recording performance may differ according to the surveillance scene:
 - 1) DS-4208HFVI / DS-4216HFVI (Performance of each DSP):
8ch 4CIF real time encoding at 4Mbps/channel

 - 2) DS-4216HCI (Performance of each DSP):
16ch CIF real time encoding at 2Mbps/channel

2. Please kindly refer to the website or contact technical support for the latest updated info of card performance.

3. Recording performance may be slightly different according to the card number and hard disk read/write efficiency of the system.

3. Product Features

- Clear and vivid live view/playback under high image resolution
- Real time encoding
- Extra-low power consumption and high stability
- Support multiple cards plugged in PC (support up to 40ch camera input for 1 PC)
- User-adjustable frame structure (I/P frame structure)
- User-adjustable image quality and bit rate
- User-adjustable video brightness/hue/contrast
- Built-in motion detect
- Support OSD, LOGO and mask area settings

4. Technical Specification

Model	DS-4216HCI	DS-4208HFVI	DS-4216HFVI
Dimensions (mm)	162*101	162*101	213x101
PCI Standard	PCI 2.2		
Video Compression	H.264(MPEG-4/part10)		
Video Input	16ch	8ch	16ch
Video Input Interface	BNC (1.0Vp-p, 75Ω)		
Video Standard	PAL/NTSC		
Live View Resolution	4CIF		
Playback Resolution	CIF/QCIF	4CIF/2CIF/CIF /QCIF	
Frame Rate	1/16~25 F/S(PAL), 1/16~30 F/S(NTSC)		
Video Recording Bit Rate	32k ~2M (CIF), 32k ~4M (4CIF) (Unit:bps)		
Video Output Interface	--	1 ch BNC	
Audio Compression	OggVorbis		
Audio Input	16ch, mono	8ch, mono	16ch, mono
Audio Input Interface	BNC (2Vp-p, 1kΩ, volume adjust range: 83DB)		
Sampling Rate	8KHz		
Audio Recording Bit Rate	64kbps		
Power Consumption	<8.5w	<7w	<14w