IEI Capture Card Solutions

IEI provides complete video/audio capture card solutions to fulfill the demands of various applications.

The latest HDC solutions are capable of compressing and decompressing full HD video (1920×1080) in real-time using the H.264 codec. The products enable recording, playing, and transmitting HD video with high-definition quality on devices such as digital video cameras, home network devices, industrial broadcasting devices, and surveillance cameras.

IEI IVC series provides standard-definition (SD) video resolution with standard or MP3 audio capture capability which provides better quality.



High Definition Solutions

H.264 Hardware Compression Capture Cards Supports high definition video resolution up to 1920 x 1080

HDMI Interface DVI Interface HDC-304E HDC-302E

HDC-301E

HDC-301

SDI Interface HDC-401 HDC-502F HDC-401E HDC-402E



Long Distance High Quality Extension Solution **SDI Interface** HD-DSI-BOX-M HD-DSI-BOX-S



Standard Definition Solutions

Software Compression Capture Cards

Supports standard definition video resolution up to 720 x 480 NTSC/ 720 x 576 PAL

PCIe Mini type PCI-104 type PCIe type IVCME-C604



PCI type PCIe type IVC-168G IVCE-268G IVC-268G IVC-100G IVC-200G

H.263/MPEG-4 Hardware Compression Capture Cards

PCI type





HD Video Capture Solutions

High Definition Compression Capture Card

Main difference between hardware compression and software compression capture cards:



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H.264 Hardware Compression Solution

IEI HDC-series products are designed with FUJITSU Codec IC MB86H46 solution which is capable of compressing and decompressing full HD video (1920 x1080) in the H.264 format in real-time.

FUITSU

Main Features

- Supports high-definition 1080p, 1080i, 720p, 480p and 480i video inputs
- Supports video and audio capture from all kinds of HD devices
- Edit and playback captured files on computer
- H.264 codec supports better storage advantages
- 8-channel hardware capture with under 10% CPU loading
- HDMI output port with hardware decoding for external HDMI monitor
- PCI and PCIe interfaces for different system configurations

Benefits

Media data HD video/audio causes huge storage capacity. For example, an uncompressed full HD video will be about 373 MB/sec @60 fps. With IEI HDC series capture cards, the HD data could be compressed through hardware codec and then it is beneficial for storage usage, cost saving and transmission bandwidth in a variety of applications.

(1920 x 1080 x 3 (R.G.B.) x 60 frame/sec. = 373.248 MByte)

Compressed video encoding bit rate range from

30 Mbps = 3.75 MB to 2 Mbps = 0.25 MB

The compression ratio between compressed and uncompressed media data is up to **1492:1**.



120 minutes 1080p movie

Marketing Applications

HD video and audio networking solution



3 TB HDD (cost \$300) with uncompressed file VS

30 GB (cost \$30) with compressed file



Media Processing for

- Compressing Broadcas
- EditingUploading



Recording



	Un-compressed	Compressed			
Encoding Bit Rate	373 MB	0.25 MB	1 MB	2 MB	3.75 MB
1 TB HDD Capacity	0.75 hr	1108 hrs	277 hrs	139 hrs	74 hrs
30-minute Full HD Video Recording	671 GB	450 MB	1.8 GB	3.6 GB	6.75 GB

Take 30-minute full HD video recording as an example. The uncompressed video is 671 GB, while the compressed video encoding with 0.25 MB (2 Mbps) bit rate is only 450 MB.



120 minutes 1080p movie storage cost \$300 VS \$30















Long Distance High-Definition Compression Solution

Nowadays, more and more equipments are equipped with SDI output for television studios and other broadcasting applications. SDI is a high capacity interface used as a way of exporting uncompressed digital video in real time. That makes it ideal for live feed productions (such as a live TV show), as well as for editing and monitoring video at the highest possible quality. Since SDI is designed primarily for professional use, it is also compatible with a variety of video devices found in broadcast studios, including monitors, tape decks and switchers. SDI exports uncompressed SD and HD video over a coaxial cable.



Long Distance and High Quality Capture Card

SDI in studio editing field

SDI (Serial Digital Interface) is a family of video interfaces used for broadcast-grade video. A related standard known as high-definition serial digital interface (HD-SDI) provides a nominal data rate of 1.485 Gbit/s. IEI SDI product HDC-502E is designed with 2 channels SDI input, 2 channels SDI loop and 1 channel SDI output for high quality and long distance signal transmission. It achieves this through a 100 m (HD-SDI)/300 m (SD-SDI) coaxial cable without compression and with no data loss for professional studio, broadcast and transportation video applications.



High definition capturing has become a trend of the industrial surveillance. The HD-CCTV camera with SDI interface provides long distance transmission compared to analog camera and IP camera. The advantage is SDI interface can transmit high-definition 1080p video via coaxial cable instead of network cable. In other words, users can enjoy 1080p HD video over existing analog system without any changes.



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Long Distance and High Quality BOX

The HD-SDI-BOX kit, combining the HD-SDI-BOX-M (Master) and the HD-SDI-BOX-S (Slave), provides a high-definition serial digital interface (SDI) for long distance signal transmission. With the HD-SDI-BOX kit, the HDMI or VGA video signal can be transmitted directly through a 100 m coaxial cable without compression. The HD-SDI-BOX kit also supports touch-screen remote control. The touch-screen remote control is linked through the RJ-45 Cat5 cable and RS-232 cable.



Applications





Airport information

Shopping mall digital signage





Broadcast



Restaurant video

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Power Supply

Applications of Medical HD Image/Video Capture Equipment

Endoscopy Surgery

Endoscopy typically refers to looking inside the body for medical reasons using an endoscope. Unlike most other medical imaging devices, endoscopes are inserted directly into the organ or incision. Clear and detailed image is necessary for precise operations.



Ultrasound Scanner

A general-purpose ultrasound machine may be used for most imaging purposes. Usually specialty applications may be served only by use of a specialty transducer. Most ultrasound procedures are done using a transducer on the surface of the body, but improved diagnostic confidence is often possible if a transducer can be placed inside the body.

Microscope

Microscope is an instrument used to investigate objects that are too small for the naked eye. Recently, electron microscopic captures and displays the image through electric devices that allow people to see objects in detail.

Thermography

Thermal imaging/video are examples of infrared imaging science. The appearance and operation of a modern thermographic camera is often similar to a camcorder. The live thermography reveals temperature variations so clearly. Thus, it plays more and more important role for health analysis and management. For health reasons, a recording module is built-in for patient tracing.

Network Video Applications through HDC-series Capture Cards

Distance education/instruction

An educational model where the student and the teacher are in locations different from one another while the instruction is taking place. Ideal for this kind of education, the capture cards allow real-time capture or composition of two input sources, typically a live instruction with a Powerpoint presentation.

Sport/Game Broadcasting

The broadcasting of sport/game events is the coverage of sports/games as a television program. Spectators can engage in live conversations using broadcasting media. Through HD capture and broadcast, there is no virtually impact on the sport/game performance.

Traffic Broadcasting

The traffic systems now provide more informative and communicative broadcasting program that improve transport outcomes such as transport safety, transport productivity, travel reliability, and etc. Traffic media in vehicles or transportation is getting popular since wireless environment is getting mature.

Video Capture Software

IEI SDK Software Support

IEI provides complete software solutions such as device drivers and software development kit (SDK), and the flexible open architecture allows easy integration of cameras, video signal processing, storage, and video management/security.



Video capture and preview



Supports up to eight channels input

Device Setting Device Info	Viteo Source	Capture	Parview	Setting	Operation
Bos: 1, Device: 0				Device 0	(Past) [46.9.]
Bos: I, Device: 1				Device 1	0.002
Bos: 1, Device: 2				Device 2	ottat 2009
Box 1, Device: 3				Device 3	Stut Sup
Transmitter Bur: 1, Device: 4					
Device 4				Device 4	Out Sty
Device 5				Device 5	Stort Stop
Device 6				Device 6	Chur Stop
Device 7				Device 7	[200] [200]
Transmitter 1					

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SD Video Capture Solutions

Market Coverage

Intelligent Transportation Systems (ITS)

Providing timely information on highway traffic conditions is a major function of intelligent transportation systems (ITS), and video surveillance systems are critical tools for ITS to monitor and control any emergency evacuation event.

The toll road payment stations process large numbers of micro transactions. The surveillance system minimizes fraud by recording all transactions including those carried out by potential gatecrashers.

Automotive Video Surveillance

Automotive video surveillance is now widely used to monitor vehicle interiors on public transportation systems to ensure the safety of the onboard passengers. Automotive video surveillance systems can record the interior of train, cars and buses and can also be adopted in police vehicles to monitor patrol activity.

Banking Security System

In a bank, the surveillance system easily monitors a teller line and automated teller machine transactions. Bank surveillance systems can also record robberies, unauthorized withdrawals, and other disputed transactions.

Building, Airport, Road Surveillance System

Video surveillance has emerged as a vital technology in the war against terror. Video surveillance enables the easy identification of culprits behind terrorist bombings. As a result, since 911, governments around the world have started to leverage highperformance surveillance equipment in their efforts to protect their country and people from terrorist attacks

Industrial Automation

Latest Supervisory Control And Data Acquisition (SCADA) systems adopt video capturing technologies to collect factory data and thereby provide operators and supervisors access to real-time data and video feeds enabling them to make increasingly accurate assessments faster.

Standard Definition Compression Capture Card

The world has seen increasing demand for security applications, and the video surveillance system has been a popular security tool for years. Security cameras are an everyday occurrence, and chances are, you're used to watching yourself walk into a store on a security monitor. Banks and retail stores have come to depend on the protection provided by video surveillance. Digital technology have made video surveillance more flexible and easy to use than ever, and allow you to create the security system that conforms exactly to your needs.

2011 New Solution	Capture Chip	4 Channels	8 Channels
PCIe Slot	Conexant CX25853		IVCE-C608
	Conexant CX25850	IVCE-C604	
PCIe Mini Slot	Conexant CX25854	IVCME-C604	
2010 Solution	Capture Chip	4 Channels	
		IVC-168G	
	Techwell 1 W0602/0605	IVC-268G	
PCI Slot	Concyant BT979A	IVC-100G	
	Collexallt B1070A	IVC-200G	
	Multiplexer AT2041	IVC-8371P	
DCIa Clat	Techwell TW6802/6805	IVCE-268G	
PCIE SIDI	Conexant BT878A	IVCE-8784	
DCI 104	Conexant BT878A	PM-1056	
PGI-104	Multiplexer AT2041	PM-1059	

Direct PCIe Solution

PCle Bridge Solution PCle Techwell Bridge TW6802 PCI-based capture engine



New Features

New Direct PCIe Solution



1. Single card with 8 channels capture up to 128 channels















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Multiple Card with Digit LED Card ID Support

One Digit LED for Card Identification (ID)

Because the IEI IVC series support multiple IVC cards, users need to know which card is related to which device name in the Device Manager of Windows® 7. Each IVC card provides one digit LED to show its ID (identification), and the ID is programmed by a rotate switch. The IEI IVC SDK also provides an application programming interface (API) to get device name and the demo application software shows how to display device names on screen. The advantages are for ease of maintenance and debugging. When a display channel malfunctions, the users can quickly find out which IVC card should be checked for error via the device name and LED ID.

Multiple Card Support

The IEI IVC series are designed to support multiple IVC cards in a system. Its driver can recognize and support multiple IVC cards plugged into a system. The limitation of how many IVC cards can be plugged into a system is dependent on system resources such as CPU performance, interface bandwidth, and number of available IRQs.

	Card Number	Card 1	Card 2	Card 3	Card 4	Card 5	Card 6	Card 7	Card 8
	Card ID	0	1	2	3	4	5	6	7
	Card Number	Card 9	Card 10	Card 11	Card 12	Card 13	Card 14	Card 15	Card 16
	Card ID	8	9	А	В	С	D	E	F

Multiple Card Cascade Reset

One Bottom Cascade Reset

The latest IEI software compressive capture (IVC series) provides multiple card cascade reset function. It can enable system restore via external hardware reset botton when system failure occurs.



Multiple Zones Real Time Monitoring

IEI video capture card is capable of video and audio output for second location real-time monitoring. Using this function, local on-site monitoring can focus on capturing video and audio with no need to operate system control. Local channel switch can be assigned by the system administrator or switch by GPIO module.



Central control room System monitor and control with video/audio capture



Local security site Real-time monitoring with video and audio



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Benefits

The software compression card is used to transfer analog NTSC/PAL signal to digital raw data signal. The uncompressed raw data can provide better video quality without distortion. It is useful for real-time video surveillance applications. The software compression process is first transferring data into PC through PCI or PCIe interface then the CPU compresses the video and stores it in the HDD. Since compression and de-compression are handled by the CPU, the software compression card needs a more powerful hardware requirement.









Un-compressed raw data w/o distortion

Data decoding from CPU w/ distortion

Video Analytics



GPIO Alarm

Optional GPIO port support

The optional IEI VIOCARD-GPIO card provides 4-bit alarm input and 4-bit alarm output with normal open relay. It is compatible with IVC software compression capture card to connect with external I/O sensors.

Raw video capturing data



Video Capture Software

IVC SDK Demo AP

IEI provide CView, a demonstration application program (AP), for Conexant solutions. The program demonstrates the following functions:

Video and audio capture

- Video and audio data recording to AVI file
- Testing of device I2C and GPIO ports
- Channel parameter configurations



CView Demo AP Introduction

Card ID CViev Card 2 Main Functions Properties H Display Mode O Y422 O Y411 Video Format Video Standard Other Functionality Settings ⊙ NTSC O PAL ■) 🗘 🙌 0 **N** 2 Output size 720x480 T

Main Functions **Display Mode** Sinale Single Channel Four Channels Nine Stop Pause Start Channels Properties Video Format **90** o Y422 o Y411 P 20 \square GC/VG Video Standard Camera Setup Record Setup Color Control AGC/VGA Setup ○ NTSC ○ PAL Other Functionality Settings 77 7 [)) Audio recording Flip Mirror Snapshot Full Screen Camera Information Video Output Resolution Settings Output size 1 720x480 🔻 0 fps

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oftware	Compression	Cards	Selection	Guide
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Video Engine	Conexant CX25853	Conexant CX25850	Conexant CX25854	Techwell TW6805	Conexant CX25878	Techwell TW6805	Conexant CX25878
IEI Solution	IVCE-C608	IVCE-C604	IVCME-C604	IVCE-268G	IVCE-8784	IVC-268G	IVC-200G
Bus	PCle	PCle	PCIe Mini	PCle	PCle	PCI	PCI
Video Input	8 channels	4 channels	4 channels	4 channels	4 channels	4 channels	4 channels
Frame Rate	240/200 FPS	120/100 FPS	120/100 FPS	120/100 FPS	120/100 FPS	120/100 FPS	120/100 FPS
Video Input Format	NTSC/PAL EIA/CCIR	NTSC/PAL EIA/CCIR	NTSC/PAL EIA/CCIR	NTSC/PAL/SECAM	NTSC/PAL/SECAM	NTSC/PAL/SECAM	NTSC/PAL/SECAM
Video Output	2 channels	2 channels	N/A	N/A	N/A	N/A	N/A
Audio Sampling Rate	8 ~ 96 kHz	8 ~ 96 kHz	8 ~ 96 kHz	N/A	N/A	N/A	N/A
LED Indicator	Yes	Yes	Yes	Yes	N/A	Yes	N/A
Driver for Windows®	Windows® XP/7 32/64-bit	Windows® XP/7 32/64-bit	Windows® XP/7 32/64-bit	Windows® 2000/XP	Windows® 2000/XP	Windows® 2000/XP	Windows® 2000/XP
Driver for Linux 32/64-bit	Linux 2.6.27	Linux 2.6.27	Linux 2.6.27	Linux 2.6	N/A	Linux 2.6	Linux 2.4
Power Consumption	5.3W, 1.39A@ 3.3V, 0.06A@12V	3.51W, 0.9A@3.3V, 0.045A@12V	1.65W, 0.5A@3.3V	12W, 1A@12V	7.8W, 0.65A@12V	12W, 2A@5V	15W, 3A@5V

High-Definition Hardware Compression Capture Card Selection Guide

Model Name	HDC-304E	HDC-302E	HDC-301E	HDC-301		
Form Factor	PCle	PCle	PCle	PCI		
♦ Interface						
Video Input	4 channels	2 channels	1 channel	1 channel		
Video Input Type	HDMI	HDMI	HDMI	HDMI		
Audio Input	4 channels	2 channels	1 channel	1 channel		
Audio Input Type	HDMI	HDMI	HDMI	HDMI		
Video Output	1 channel	2 channels	1 channel	1 channel		
Video Output Type	HDMI output cable kit	HDMI	HDMI	HDMI		
Audio Output	1 channel	2 channels	1 channel	1 channel		
Audio Output Type	HDMI output cable kit	HDMI	HDMI	HDMI		
Bus Interface	PCle x1	PCIe x1	PCle x1	PCI		
Loop Through	1 channel	2 channels	1 channel	1 channel		
 Video Processing 						
Video Compression		H.264/AVC High	Profile Level 4.2			
Input Resolution & Frame Rate	1920 x 1080 x 60p / 59.94p / 50p 1920 x 1080 x 60i / 59.94i / 50i 1280 x 720 x 60p / 59.94p / 50p 720 x 480 x 60i / 59.94i 720 x 576 x 50i					
Record Resolution / Frame Rate / Bit Rate	1920 x 1080 x 60p / 59.94p / 50p, encoding video bit rate from 6Mbps to 20Mbps 1920 x 1080 x 60i / 59.94i / 50i, encoding video bit rate from 6Mbps to 20Mbps 1280 x 720 x 60p / 59.94p / 50p, rocoding video bit rate from 4Mbps to 20Mbps 720 x 480 x 60i / 59.94i, encoding video bit rate from 2Mbps to 10Mbps 720 x 576 x 50i, encoding video bit rate from 2Mbps to 10Mbps					
Audio Processing						
Audio Compression		MPEG-1 Au	udio Layer 2			
Bit Rate		25	i6k			
♦ Functionality						
Multiple Card Support	2 cards, 8 channels	4 cards, 8 channels	No	No		
HDCP Compliant	Yes	Yes	Yes	Yes		
System Requirement	:					
System	x8 Rec	6 PC compatible computer, Intel® Pentiu commends using a DXVA or CUDA capab	Im® 4 2.0GHz or above for video recordir ole graphics card for real-time video playb	ng Nack		
Memory		1GB 0	r more			
OS Environment	Windows®: Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version) Linux: Fedora 10 (Kernel 2.6.27)					
Software Support						
Device Driver		Compatible with Windows® XP, V	Windows® 7, Linux Kernel 2.6.27			
SDK		Windows®: Provides SDK and demo p Linux: Provides SDK and driver/demo	program with sample source code in C# program with sample source code in C			
♦ Others						
Dimensions	230 mm x 116 mm	155 mm x 98.6 mm	168 mm x 69 mm	168 mm x 64 mm		
Operating Temperature		0°C ~ 65°C, n	on-condensing			
Power Consumption	12.7W (12V@0.61A, 3.3V@1.63A)	9.53W (12V@0.46A, 3.3V@1.21A)	6.07 W (12V@0.3A, 3.3V@0.72A)	5.29W (5V@0.73A, 3.3V@0.49A)		

ORing Network

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High-Definition Hardware Compression Capture Card Selection Guide

	New	New	New	New	
Model Name	HDC-402E	HDC-401E	HDC-401	HDC-502E	
Form Factor	PCle	PCle	PCI	PCle	
♦ Interface					
Video Input	2 channels	1 channel	1 channel	2 channels	
Video Input Type	DVI-I	DVI-I	DVI-I	SDI	
Audio Input	N/A	N/A	N/A	2 channels	
Audio Input Type	N/A	N/A	N/A	SDI	
Video Output	2 channels	1 channel	1 channel	1 channel	
Video Output Type	DVI-I	DVI-I	DVI-I	SDI	
Audio Output	N/A	N/A	N/A	1 channel	
Audio Output Type	N/A	N/A	N/A	SDI	
Bus Interface	PCle x1	PCle x1	PCI	PCle x1	
Loop Through	2 channels	1 channel	1 channel	2 channels	
 Video Processing 					
Video Compression		H.264/AVC H	High Profile Level 4.2		
Input Resolution & Frame Rate	Supports VESA video input up to 1920 x 1080 x 60p	Supports VESA video inpu	1920 x 1080 x 60p / 50p / 30p / 25p / 24p 1920 x 1080 x 60i / 50i 1280 x 720 x 60p / 50p / 30p / 25p / 24p 720 x 480 x 60i 720 x 576 x 50i		
Record Resolution / Frame Rate / Bit Rate	1920 x 1080 x 60p, encoding video bit rate from 6Mbps to 20Mbps 1280 x 720 x 60p, encoding video bit rate from 4Mbps to 20Mbps	1920 x 1080 x 60p, encoding vide 1280 x 720 x 60p, encoding vide	1920 x 1080 x 60p, encoding video bit rate from 6Mbps to 20Mbps 1280 x 720 x 60p, encoding video bit rate from 4Mbps to 20Mbps		
♦ Audio Processing					
Audio Compression	N/A	N/A	N/A	MPEG-1 Audio Layer 2	
Bit Rate	N/A	N/A	N/A	256k	
♦ Functionality					
Multiple Card Support	4 cards, 8 channels	No	No	4 cards, 8 channels	
HDCP Compliant	No	No	No	No	
 System Requirement 	t				
System	Re	86 PC compatible computer, Intel® Percent Processing a DXVA or CUDA care	entium® 4 2.0GHz or above for video apable graphics card for real-time vide	recording eo playback	
Memory		10	GB or more		
OS Environment	Windows®: Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version) Linux: Fedora 10 (Kernel 2.6.27)				
♦ Software Support					
Device Driver		Compatible with Windows®	XP, Windows® 7, Linux Kernel 2.6.27		
SDK		Windows®: Provides SDK and der Linux: Provides SDK and driver/de	no program with sample source code emo program with sample source code	in C# e in C	
♦ Others					
Dimensions	210 mm x 111 mm	155 mm x 111 mm	106.7 mm x 167.6 mm	250 mm x 111 mm	
Operating Temperature		0°C-65°C	c, non-condensing		
Power Consumption	14W (3.3V@1.48A, 12V@0.76A)	7.1W (12V@0.34A, 3.3V@0.89A)	6.32W (5V@0.83A, 3.3V@0.65A)	14.2W (12V@0.76A, 3.3V@1.52A)	





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HDC-304E

PCI Express video/audio capture card with four HDMI input channels and one HDMI output channel, 1920x1080@60p, and H.264 hardware codec



H.264 Hardware Codec





1-channel HDMI output



PCIe bus

HDMI

H.264 H.264 CODEC CODEC

H.264 H.264 CODEC CODEC

Windows

Features

- Compatible with Windows® XP. Windows® 7 and Linux
- Equipped with four HDMI input ports
- Encoding or decoding up to 1080p HD video
- Pass through for transmitting uncompressed video up to 1080p resolution
- Reduces the amount of hard disk space needed by real-time H.264 recording compression capability
- Enables the system to support up to 8-channel input by adding multiple video capture cards
- SDK available for customer to create customized applications
- PCI Express interface provides higher bandwidth and great performance

Specifications

Packing List

Interface

	Video Input	4 channels			
	Video Input type	HDMI			
	Audio Input	4 channels			
	Audio Input Type	HDMI			
	Video Output	1 channel			
	Video Output Type	HDMI output cable kit			
	Audio Output	1 channel			
	Audio Output Type	HDMI output cable kit			
	Bus Interface	PCle x1			
	Loop Through	1 channel			
,	Video Processing				
	Video Compression	H.264/AVC High Profile Level 4.2			
	Input Resolution & Frame Rate	1920 x 1080 x 60p / 59.94p / 50p 720 x 480 x 60i / 59.94i 1920 x 1080 x 60i / 59.94i / 50i 720 x 576 x 50i 1280 x 720 x 60p / 59.94p / 50p 720 x 576 x 50i			
	Record Resolution / Frame Rate / Bit Rate	1920 x 1080 x 60p / 59.94p / 50p, encoding video bit rate from 6Mbps to 20Mbps 1920 x 1080 x 60i / 59.94i / 50i, encoding video bit rate from 6Mbps to 20Mbps 1280 x 720 x 60p / 59.94p / 50p, encoding video bit rate from 4Mbps to 20Mbps 720 x 480 x 60i / 59.94i, encoding video bit rate from 2Mbps to 10Mbps 720 x 576 x 50i, encoding video bit rate from 2Mbps to 10Mbps			
,	Audio Processing				
	Audio Compression	MPEG-1 Audio Layer 2			
	Dit Data	0561			

Functionality

DN In 1

IDM In 2

IDM

In 3

IDM

System Block

HDM Rx

HDMI Rx

HDM Rx

PCle x1

HDMI Out

HDMI Tx

FPGA

CPLD

Bridge

Multiple Card Support	2 cards, 8 channels
HDCP Compliant	Yes
 System Requirement 	t
System	x86 PC compatible computer, Intel® Pentium® 4 2.0GHz or above for video record Recommends using a DXVA or CUDA capable graphics card for real-time video playback
Memory	1GB or more
OS Environment	Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version) Linux: Fedora 10 (Kernel 2.6.27)
 Software Support 	
Device Driver	Compatible with Windows® XP, Windows® 7, Linux Kernel 2.6.27
SDK	Windows®: Provides SDK and demo program with sample source code in C# Linux: Provides SDK and driver/demo program with sample source code in C
♦ Others	
Dimensions	230 mm x 116 mm
Operating Temperature	$0^{\circ}C \sim 65^{\circ}C$, non-condensing
Power Consumption	12.7W (12V@0.61A, 3.3V@1.63A)

Ordering Information

-		-		
1 x HDC-304E capture card		Part No.	Description	
1 x HDMI output kit			PCI Express video/audio capture card with four HDMI input	
1 x Utility CD	1 x QIG	HDC-304E-R10	channels,1920x1080@60p, and H.264 hardware codec	









HDC-304E-2012-V10

www.ieiworld.com

HDC-302E PCI Express video/audio capture card with two HDMI input channels and two HDMI output channels, 1920x1080@60p, and H.264 Hardware Codec



H.264 Hardware Codec



Features

- Compatible with Windows® XP, Windows® 7 and Linux
- Equipped with two HDMI input ports
- Encoding or decoding up to 1080p HD video
- · Pass through for transmitting uncompressed video up to 1080p resolution
- Captures or records HD video in H.264 format
- · Playbacks the recordings on HDMI display
- SDK available for customer to create customized applications

Specifications

Interface

Industrial Computing Solutions

2 Videc Capture Solutions 3 Embedded Computing Solutions 4 ORing Numunication

Video Input	2 channels
Video Input Type	HDMI
Audio Input	2 channels
Audio Input Type	HDMI
Video Output	2 channels
Video Output Type	HDMI
Audio Output	2 channels
Audio Output Type	HDMI
Bus Interface	PCle x1
Loop Through	2 channels
Video Processing	
Video Compression	H.264/AVC High Profile Level 4.2
Input Resolution & Frame Rate	1920 x 1080 x 60p / 59.94p / 50p 720 x 480 x 60i /59.94i 1920 x 1080 x 60i / 59.94i / 50i 720 x 576 x 50i 1280 x 720 x 60p / 59.94p / 50p 500
Record Resolution / Frame Rate / Bit Rate	1920 x 1080 x 60p / 59.94p / 50p, encoding video bit rate from 6Mbps to 20Mbps 1920 x 1080 x 60i / 59.94i / 50i, encoding video bit rate from 6Mbps to 20Mbps 1280 x 720 x 60p / 59.94p / 50p, encoding video bit rate from 4Mbps to 20Mbps 720 x 480 x 60i / 59.94i, encoding video bit rate from 2Mbps to 10Mbps 720 x 576 x 50i, encoding video bit rate from 2Mbps to 10Mbps

Packing List

1 x 1 x 1 x

HDC-302E	
Utility CD	
QIG	

System Block





٠	Audio	Proce	nnizz

t / table / receccing		
	Audio Compression	MPEG-1 Audio Layer 2
	Bit Rate	256k
٠	Functionality	
	Multiple Card Support	4 cards, 8 channels
	HDCP Compliant	Yes
٠	System Requirement	1
	System	x86 PC compatible computer, Intel® Pentium® 4 2.0GHz or above for video record Recommends using a DXVA or CUDA capable graphics card for real-time video playback
	Memory	1GB or more
	OS Environment	Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version) Linux: Fedora 10 (Kernel 2.6.27)
٠	Software Support	
	Device Driver	Compatible with Windows® XP, Windows® 7, Linux Kernel 2.6.27
	SDK	Windows®: Provides SDK and demo program with sample source code in C# Linux: Provides SDK and driver/demo program with sample source code in C
٠	Others	
	Dimensions	155 mm x 98.6 mm
	Operating Temperature	$0^{\circ}C \sim 65^{\circ}C$, non-condensing
	Power Consumption	9.53W (12V@0.46A, 3.3V@1.21A)

Ordering Information

Part No.	Description
HDC-302E-R10	PCI Express video/audio capture card with two HDMI input channels and two HDMI output channels, 1920x1080@60p, and H.264 Hardware Codec

Pane Solutions

Introduction

wer Supply Peripheral

HDC-301E PCI Express video/audio capture card with one HDMI input channel and one HDMI output channel, 1920x1080@60p, and H.264 Hardware Codec



H.264 Hardware Codec



Features

- Compatible with Windows® XP, Windows® 7 and Linux
- Equipped with one HDMI input port
- Encoding or decoding up to 1080p HD video
- Pass through for transmitting uncompressed video up to 1080p resolution
- Captures or records HD video in H.264 format
- Playbacks the recordings on HDMI display
- SDK available for customer to create customized applications

System Block



Specifications

Interface

	Video Input	1 channel	
	Video Input type	HDMI	
	Audio Input	1 channel	
	Audio Input Type	HDMI	
	Video Output	1 channel	
	Video Output Type	HDMI	
	Audio Output	1 channel	
	Audio Output Type	HDMI	
	Bus Interface	PCle x1	
	Loop Through	1 channel	
•	Video Processing		
	Video Compression	H.264/AVC High Profile Level 4.2	
	Input Resolution & Frame Rate	1920 x 1080 x 60p / 59.94p / 50p 720 x 480 x 60i / 59.94i 1920 x 1080 x 60i / 59.94i / 50i 720 x 576 x 50i 1280 x 720 x 60p / 59.94p / 50p 500	
	Record Resolution / Frame Rate / Bit Rate	1920 x 1080 x 60p / 59.94p / 50p, encoding video bit rate from 6Mbps to 20Mbps 1920 x 1080 x 60i / 59.94i / 50i, encoding video bit rate from 6Mbps to 20Mbps 1280 x 720 x 60p / 59.94p / 50p, encoding video bit rate from 4Mbps to 20Mbps 720 x 480 x 60i / 59.94i, encoding video bit rate from 2Mbps to 10Mbps 720 x 576 x 50i, encoding video bit rate from 2Mbps to 10Mbps	
	Audio Processing		
	Audio Compression	MPEG-1 Audio Layer 2	
	Dit Data	0501.	

Functionality

,		
Multiple Card Support	No	
HDCP Compliant	Yes	
System Requirement		

	System	x86 PC compatible computer, Intel® Pentium® 4 2.0GHz or above for video record Recommends using a DXVA or CUDA capable graphics card for real-time video playback
	Memory	1GB or more
	OS Environment	Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version) Linux: Fedora 10 (Kernel 2.6.27)
٠	Software Support	
	Device Driver	Compatible with Windows® XP, Windows® 7, Linux Kernel 2.6.27
	SDK	Windows®: Provides SDK and demo program with sample source code in C# Linux: Provides SDK and driver/demo program with sample source code in C
Others		
	Dimensions	168 mm x 69 mm
	Operating Temperature	$0^{\circ}C \sim 65^{\circ}C$, non-condensing
	Power Consumption	6.07 W (12V@0.3A, 3.3V@0.72A)









Power Supply Peripheral-



Packing List

1 x HDC-301E	
1 x Full size bracket	
1 x Utility CD	1 x QIG

Ordering Information

Part No.	Description
HDC-301E-R10	PCI Express video/audio capture card with one HDMI input channel and one HDMI output channel, 1920x1080@60p, and H.264 Hardware Codec

2-14

HDC-301

PCI video/audio capture card with one HDMI input channel and one HDMI output, 1920x1080@60p, and H.264 Hardware Codec



H.264 Hardware Codec



Features

- Compatible with Windows® XP, Windows® 7 and Linux
- Equipped with one HDMI input port
- Encoding or decoding up to 1080p HD video
- Pass through for transmitting uncompressed video up to 1080p resolution
- Captures or records HD video in H.264 format
- Reduce the amount of hard disk space needed by real-time H.264 recording compression capability
- SDK available for customer to create customized applications

eate customized applications

Specifications Interface

Industrial Computing Solutions

2 Video Capture Solutions

QRing Network munication

ower Supply Peripherals

	Video Input	1 channel	
	Video Input Type	HDMI	
	Audio Input	1 channel	
	Audio Input Type	HDMI	
	Video Output	1 channel	
	Video Output Type	HDMI	
	Audio Output	1 channel	
	Audio Output Type	HDMI	
	Bus Interface	PCI	
	Loop Through	1 channel	
Þ	Video Processing		
	Video Compression	H.264/AVC High Profile Level 4.2	
	Input Resolution & Frame Rate	1920 x 1080 x 60p / 59.94p / 50p 1920 x 1080 x 60i / 59.94i / 50i 1280 x 720 x 60p / 59.94p / 50p	720 x 480 x 60i / 59.94i 720 x 576 x 50i
	Record Resolution / Frame Rate / Bit Rate	1920 x 1080 x 60p / 59.94p / 50p, e from 6Mbps to 20Mbps 1920 x 1080 x 60i / 59.94i / 50i, end 6Mbps to 20Mbps 1280 x 720 x 60p / 59.94p / 50p, er 4Mbps to 20Mbps 720 x 480 x 60i / 59.94i, encoding v to 10Mbps 720 x 576 x 50i, encoding video bit 10Mbps	encoding video bit rate coding video bit rate from acoding video bit rate from video bit rate from 2Mbps rate from 2Mbps to
• /	Audio Processing		
	Audio Compression	MPEG-1 Audio Layer 2	
	Bit Rate	256k	

1 x QIG

Packing List

1 x HDC-301 capture card
1 x Full size bracket
1 x Utility CD





Functionality

4

	Multiple Card Support	No	
	HDCP Compliant	Yes	
•	System Requirement		
		x86 PC compatible computer, Intel® Pentium® 4 2.0GHz or	

	System	above for video record Recommends using a DXVA or CUDA capable graphics card for real-time video playback
	Memory	1GB or more
	OS Environment	Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version) Linux: Fedora 10 (Kernel 2.6.27)
Software Support		
	Device Driver	Compatible with Windows® XP, Windows® 7, Linux Kernel 2.6.27
	SDK	Windows®: Provides SDK and demo program with sample source code in C# Linux: Provides SDK and driver/demo program with sample source code in C
Others		
	Dimensions	168 mm x 64 mm
	Operating Temperature	$0^{\circ}C \sim 65^{\circ}C$, non-condensing
	Power Consumption	5.29W (5V@0.73A, 3.3V@0.49A)

Ordering Information

Part No.	Description
HDC-301-R10	PCI video/audio capture card with one HDMI input channel and one HDMI output, 1920x1080@60p, and H.264 Hardware Codec

Panel Solutions Introduction





DVI Jack

H.264 Hardware Codec



Features

- Compatible with Windows® XP, Windows® 7 and Linux OS
- Equipped with two DVI-I input ports
- PCI Express interface provides higher bandwidth and great performance
- Pass through for transmitting uncompressed video up to 1080p resolution
- SDK available for customer to create customized applications

Specifications

♦ Interface		
Video Input	2 channels	
Video Input Type	DVI-I (DVI/VGA)	
Video Output	2 channels	
Video Output Type	DVI-I (DVI/VGA)	
Bus Interface	PCle x 1	
Loop Through	2 channels	
Video Processing		
Video Compression	H.264/AVC High Profile Level 4.2	
Input Resolution & Frame Rate	Supports VESA video input up to 1920 x 1080 x 60p	
Record Resolution / Frame Rate / Bit Rate	1920 x 1080 60p encoding bit rate from 6Mbps to 20Mbps 1280 x 720 60p encoding bit rate from 4Mbps to 20Mbps	
 Functionality 		
Multiple Card Support	4 cards, 8 channels	
HDCP Compliant	No	
 System Requirement 	t	
System	x86 PC compatible computer, Intel® Pentium® 4 2.0GHz or above for video record Recommends using a DXVA or CUDA capable graphics card for real-time video playback	
Memory	1GB or more	
OS Environment	Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version)	
 Software Support 		
Device Driver	Compatible with Windows® XP, Windows® 7 and Linux Kernel 2.6.27	
SDK	Windows®: Provides SDK and demo program with sample source code in C# Linux: Provides SDK and demo program with sample source code in C	
♦ Others		
Dimensions	210 mm x 111 mm	
Operating Temperature	$0^{\circ}C \sim 65^{\circ}C$, non-condensing	
Power Consumption	14W (3.3V@1.48A, 12V@0.76A)	

DVI to VGA Adaptor P/N: 33Z00-000031-RS



2-channels

DVI Output

Packing List

1 x HDC-402E capture card	
1 x DVI output kit	
1 x Utility CD	
1 × 016	

Ordering Information

Part No.	Description
HDC-402E-R10	PCI Express video/audio capture card with two DVI-I input channels and two DVI-I output channels, 1920x1080@60p, and H.264 Hardware Codec
33Z00-000031-RS	DVI to VGA adaptor

Power Supply

www.ieiworld.com



Features

- Compatible with Windows® XP, Windows® 7 and Linux
- Equipped with one DVI-I input port
- Encoding or decoding up to 1080p HD video
- Pass through for transmitting uncompressed video up to 1080p resolution
- Captures or records HD video in H.264 format
- Playbacks the recordings on DVI-I display
- SDK available for customer to create customized applications

System Block



System Requirement

	System	x86 PC compatible computer, Intel® Pentium® 4 2.0GHz or above for video record Recommends using a DXVA or CUDA capable graphics card for real-time video playback
	Memory	1GB or more
	OS Environment	Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version) Linux: Fedora 10 (Kernel 2.6.27)
Software Support		
	Device Driver	Compatible with Windows® XP, Windows® 7, Linux Kernel 2.6.27
	SDK	Windows®: Provides SDK and demo program with sample source code in C# Linux: Provides SDK and driver/demo program with sample source code in C
Others		
	Dimensions	155 mm x 111 mm
	Operating Temperature	$0^{\circ}C \sim 65^{\circ}C$, non-condensing
	Power Consumption	7.1W (12V@0.34A, 3.3V@0.89A)

Ordering Information

Part No.	Description
HDC-401E-R10	PCI Express video/audio capture card with one DVI-I input channel and one DVI-I output channel, 1920x1080@60p, and H.264 Hardware Codec
33Z00-000031-RS	DVI to VGA adapter

Specifications

Interface

Industrial Computing Solutions

2 Video Capture Solutions 3 Embedded Computing Solutions 4 ORing Network

Video Input	1 channel
Video Input Type	DVI-I (DVI/VGA)
Video Output	1 channel
Video Output Type	DVI-I (DVI/VGA)
Bus Interface	PCle x1
Loop Through	1 channel
Video Processing	
Video Compression	H.264/AVC High Profile Level 4.2
Input Resolution & Frame Rate	Supports VESA video input up to 1920 x 1080 x 60p
Record Resolution / Frame Rate / Bit Rate	1920 x 1080 x 60p, encoding video bit rate from 6Mbps to 20Mbps 1280 x 720 x 60p, encoding video bit rate from 4Mbps to 20Mbps
Functionality	
Multiple Card Support	No
HDCP Compliant	No

Packing List

1 x HDC-401E capture card
1 x Utility CD
1 x QIG

wer Supply Peripheral

Pane Solutions Introductior



Features

- Compatible with Windows® XP, Windows® 7 and Linux
- Equipped with one DVI-I input port
- Encoding or decoding up to 1080p HD video
- Pass through for transmitting uncompressed video up to 1080p resolution
- Captures or records HD video in H.264 format
- Playbacks the recordings on DVI-I display
- SDK available for customer to create customized applications

System Block

System Requirement



Industrial Computing Solutions

Embedded Computing

Power Supply

Specifications

Interface

1 channel		
DVI-I (DVI/VGA)		
1 channel		
DVI-I (DVI/VGA)		
PCI		
1 channel		
Video Processing		
H.264/AVC High Profile Level 4.2		
Supports VESA video input up to 1920 x 1080 x 60p		
1920 x 1080 x 60p, encoding video bit rate from 6Mbps to 20Mbps 1280 x 720 x 60p, encoding video bit rate from 4Mbps to 20Mbps		
Functionality		
No		
No		

	System	x86 PC compatible computer, Intel® Pentium® 4 2.0GHz or above for video record Recommends using a DXVA or CUDA capable graphics card for real-time video playback
	Memory	1GB or more
	OS Environment	Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version) Linux: Fedora 10 (Kernel 2.6.27)
Software Support		
	Device Driver	Compatible with Windows® XP, Windows® 7, Linux Kernel 2.6.27
	SDK	Windows®: Provides SDK and demo program with sample source code in C# Linux: Provides SDK and driver/demo program with sample source code in C
Others		
	Dimensions	106.7 mm x 167.6 mm
	Operating Temperature	$0^{\circ}C \sim 65^{\circ}C$, non-condensing
	Power Consumption	6.32W (5V@0.83A, 3.3V@0.65A)

Ordering Information

Part No.	Description
HDC-401-R10	PCI video/audio capture card with one DVI-I input channel and one DVI-I output channel, 1920x1080@60p, and H.264 Hardware Codec
33Z00-000031-RS	DVI to VGA adapter

Packing List

1 x HDC-401 capture card
1 x Utility CD
1 x QIG



PCI Express video/audio capture card with 2 SDI input channels, 2 loop-out channels, 1 SDI output channel, 1920x1080@60p, and H.264 Hardware Codec

New

H.264 Hardware Codec



Features

- Compatible with Windows® XP, Windows® 7 and Linux
- High quality and long distance video compression solution
- Encoding or decoding up to 1080p HD video
- Reduces the amount of hard disk space needed by real-time H.264 recording compression capability
- Applications: professional studio, broadcast and transportation video applications
- SDK available for customer to create customized applications

Specifications

Interface

Industrial Computing Solutions Video Capture Solutions Bembedded Computing Solutions

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wer Supply Peripheral

	Video Input	2 channels	
	Video Input Type	SDI	
	Audio Input	2 channels	
	Audio Input Type	SDI	
	Video Output	1 channel	
	Video Output Type	SDI	
	Audio Output	1 channel	
	Audio Output Type	SDI	
	Bus Interface	PCle x1	
	Loop Through	2 channels	
•	Video Processing		
	Video Compression	H.264/AVC High Profile Level 4.2	
	Input Resolution & Frame Rate	1920 x 1080 x 60p / 50p / 30p / 25p / 24p 1920 x 1080 x 60i / 50i 1280 x 720 x 60p / 50p / 30p / 25p / 24p	720 x 480 x 60i 720 x 576 x 50i
	Record Resolution / Frame Rate / Bit Rate	1920 x 1080 x 60p, encoding video bit rate f 20Mbps 1280 x 720 x 60p, encoding video bit rate fr 20Mbps	from 6Mbps to
•	Audio Processing		
	Audio Compression	MPEG-1 Audio Layer 2	
	Bit Rate	256k	

Packing List

1 x HDC-502E capture card 1 x Utility CD 1 x QIG

System Block



Functionality

Multiple Card Support	4 cards, 8 channels
HDCP Compliant	No

System Requirement

-)	
System	x86 PC compatible computer, Intel® Pentium® 4 2.0GHz or above for video record Recommends using a DXVA or CUDA capable graphics card for real-time video playback
Memory	1GB or more
OS Environment	Microsoft® Windows® XP Service Pack 2 (SP2) (32-bit version) Microsoft® DirectX 9.0c (32-bit) Microsoft® .NET Framework 2.0 (32-bit version) Linux: Fedora 10 (Kernel 2.6.27)
Software Support	
Device Driver	Compatible with Windows® XP, Windows® 7, Linux Kernel 2.6.27
SDK	Windows®: Provides SDK and demo program with sample source code in C# Linux: Provides SDK and driver/demo program with sample source code in C
Others	
Dimensions	250 mm x 111 mm
Operating Temperature	$0^{\circ}C \sim 65^{\circ}C$, non-condensing
Power Consumption	14.2W (12V@0.76A, 3.3V@1.52A)

Ordering Information

Part No.	Description
HDC-502E-R10	PCI Express video/audio capture card with 2 SDI input channels, 2 loop-out channels, 1 SDI output channel, 1920x1080@60p, and H.264 Hardware Codec

Pane Solutions

Introduction

HD-SDI-BOX-M-R10

New/

HD-SDI-BOX

HD-SDI

High-Definition Serial Digital Interface, long distance signal transmission box (Master/Slave) up to 100M, video input format 720p/1080i

Long Distance and High Quality BOX

The HD-SDI-BOX kit, combining the HD-SDI-BOX-M (Master) and the HD-SDI-BOX-S (Slave), provides a high-definition serial digital interface (SDI) for long distance signal transmission.

With the HD-SDI-BOX kit, the HDMI or VGA video signal can be transmitted directly through a 100 m coaxial cable without compression. The HD-SDI-BOX kit also supports touch-screen remote control. The touch-screen remote control is linked through the RJ-45 Cat5 cable and RS-232 cable.



Features

- High-definition serial digital interface (HD-SDI) transmission box supports
 720p 1080i video resolution
- Long distance signal transmission up to 100M (adds additional HD-SDI-BOX-S to extend the transmission distance)
- HD-SDI-BOX-M converts VGA/HDMI to HD-SDI

- HD-SDI-BOX-S converts HD-SDI to HDMI
- Remote touch control link
- Uncompressed transmission
- Applications: Broadcasting and Transportation Monitoring

Specifications

Model Name	HD-SDI-BOX-M-R10		HD-SDI-BOX-S-R10			
Input	1 x HDMI (No HDCP compliant), 1 x VGA		1 x HD-SDI			
Output	1 x HD-SDI		1 x HD-SDI Loop Through, 1 x HDMI			
	Front: 1 x HDMI 1 x VGA IN 2 x LED (HDMI, VGA)	1 x Button for HDMI, VGA Select 1 x RS-485 1 x Power LED	Front: 1 x HD-SDI IN 1 x RJ-45 Control In for remote touch link 1 x RS-232	1 x Touch ON/OFF switch 1 x Power LED		
NO Panel	Rear: 1 x HD-SDI OUT 1 x RJ-45 Control Out for remote touch link	1 x RS-232 for Touch Control 1 x DC input	Rear: 1 x HD-SDI Loop Through 1 x RS-232 Touch 1 x HDMI Out 1 x DC input 1 x Control Out 1 x DC input			
Supported Mode	Input Video mode: 720p (1280 x 720 @ 50/60Hz) 1080i (1920 x 1080 @ 50/60Hz)	PC mode: 1280 x 720 @ 50Hz/60Hz 1920 x 1080 @ 50/60Hz	Output Video mode: 720p (1280 x 720 @ 50/60Hz) 1080i (1920 x 1080 @ 50/60Hz)	PC mode: 1280 x 720 @ 50Hz/60Hz 1920 x 1080 @ 50/60Hz		
Data Rate	1.5Gb/s		1.5Gb/s			
Power	Power Supply: 5V, 5A Power Consumption: 5W		Power Supply: 5V, 5A Power Consumption: 4W			
Dimensions	136 mm x 103 mm x 32 mm		136 mm x 103 mm x 32 mm			
Power Adapter	Pr Adapter Input: 90VAC to 264VAC/47Hz to 63Hz Output: 5V DC		Input: 90VAC to 264VAC/47Hz to 63Hz Output: 5V DC			

Industrial Computing Solutions

Embedded Computing Solutions

Power Supply Peripherals

Dimensions (Unit: mm)



I/O Interface ______ HD-SDI-BOX-M-R10



Packing List

1 x HD-SDI-BOX set (Including master and slave boxes)
2 x EU power cord for master and slave boxes
2 x 5V adaptor for master and slave boxes
4 x Wall mounting bracket
8 x Screw
1 x User manual

Ordering Information

Part No.	Description
HD-SDI-BOX-R10	High-Definition Serial Digital Interface, long distance signal transmission box (master/slave) up to 100M, video input format 720p/1080i
HD-SDI-BOX-M-R10	High-Definition Serial Digital Interface, long distance signal transmission master box up to 100M
HD-SDI-BOX-S-R10	High-Definition Serial Digital Interface, long distance signal transmission slave box up to 100M

Panel Solutions Introduction

Industrial Computing Solutions

2 Video Capture Solutions

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Power Supply Peripherals

Standard-Definition Software Compression Capture Card Selection Guide







Yes



Model Name	IVCME-C604		IVCE-C608		IVCE-C604		IVCE-268G		
Form Factor	PCIe Mini		PCle		PCIe		PCle		
 Interface 									
Video Input	4 channels composite video NTSC/ PAL auto sensing		8 channels composite video NTSC/ PAL auto sensing		4 channels composite video NTSC/ PAL auto sensing		4 channels composite video NTSC/ PAL/SECAM auto sensing		
Video Input Type	BNC+RCA to DB-	NC 26 cable included)	BNC (BNC+RCA to DB-26 cable i		DB-26 cable included	6 cable included)		BNC	
Audio Input	4 cha	nnels	8 channels		4 channels		4 channels		
Audio Input Type	RCA (BNC+RCA inclu	A to DB-26 cable ded)	RCA (BNC+RCA to I		DB-26 cable included)		Audio cable with 3.5mm audio jack		
Bus Interface	Mini P	Cle x1	PCI	e x1	PCle x1		PCle x1		
Alarm I/O	Ye	es	Y	es	Ye	es	Y	es	
Card ID	N	/A	Rota	ate switch selectable	with LED for ID indica	ation	DIP switch select ID ind	able with LED for ication	
LED Indicator	N/A		Red LED for syst Green LED for A Yellow LED for y		system alarm or AP running for watchdog	ystem alarm r AP running or watchdog		N/A	
Video Processing									
Video Compression				Software c	ompression				
Video Engine	1 x Conexant CX25854 1 x Conexant CX25853 1 x Conexant CX25850		4 x Techwell TW6805						
Resolution & Frame Rate	NTSC: 720 x 576 720 x 480 720 x 288 720 x 240 352 x 240 320 x 240 160 x 120	PAL/SECAM: 720 × 576 720 × 480 720 × 288 720 × 248 352 × 288 352 × 240 320 × 240 160 × 120	NTSC: 720 x 576 720 x 480 720 x 288 720 x 240 352 x 240 320 x 240 160 x 120	PAL: 720 x 576 720 x 480 720 x 288 720 x 248 352 x 288 352 x 240 320 x 240 160 x 120	NTSC: 720 x 576 720 x 480 720 x 288 720 x 240 352 x 240 320 x 240 160 x 120	PAL: 720 × 576 720 × 480 720 × 288 720 × 248 352 × 288 352 × 240 320 × 240 160 × 120	NTSC: 720 x 480 720 x 240 640 x 480 640 x 240 320 x 240 160 x 120	PAL/SECAM: 720 × 576 720 × 480 720 × 288 704 × 576 704 × 288 640 × 480 640 × 480 640 × 240 352 × 288 320 × 240 176 × 144 160 × 120	
	NTSC: Total 12 char PAL: Total 100 char	0fps @ D1 for 8 inels fps @ D1 for 8 inels	NTSC: Total 24 char PAL: Total 200 char	NTSC: Total 240fps @ D1 for 8 channels PAL: Total 200fps @ D1 for 8 channels		NTSC: Total 120fps @ D1 for 4 channels PAL: Total 100fps @ D1 for 4 channels		NTSC: Total 120fps @ D1 for 4 channels PAL/SEACAM: Total 100fps @ D1 for 4 channels	
Audio Processing	I								
Audio Compression				Software c	ompression				
Sampling Rate	32kHz, 44.1kHz (hardwai	z, 48kHz, 96kHz re spec.)	32kHz, 44.1kHz (hardwa	z, 48kHz, 96kHz re spec.)	32kHz, 44.1kHz (hardwa	r, 48kHz, 96kHz re spec.)	8kHz, 32kHz, 44 (hardwa	.1kHz and 48kHz re spec.)	
Quantization	24-bit (hard	ware spec.)	24-bit (hardware spec.)		24-bit (hardware spec.)		8-bit, 16-bit and 24-bit (hardware spec.)		
 Functionality 									
Video/Audio Synchronization	N	/A	N/A		N/A		Yes		
Video Loss Detection	Ye	es	Y	es	Ye	es	Y	es	
On-screen Display	Ye	Yes		Yes		Yes		Yes	

Motion Detection

System Requirement

Yes (hardware spec.)

System x86 PC compatible computer x86 PC compatible computer, PCI Express 1 lane, compatible with 1, 4, 8 and x86 PC compatible	computer				
	x86 PC compatible computer				
Memory 512MB or above 256MB or at	ove				
Graphics DirectX compatible VGA card supporting YUV overlay mode					
♦ Software Support					
Device Driver Windows® XP/7 Windows® 20 Linux Kernal 2.6.27 Linux Kernel Linux Kernel	00/XP 2.6				
SDK Provides SDK and demo program with source code in C++					
Others					
Dimensions 51 mm x 30 mm 111 mm x 102.4 mm 111.23 mm x 102.39 mm 119.91 mm x 102	3.68 mm				
Operating Temperature 0°C ~ 60°C (32°F~140°F), non-condensing -5°C ~ 65°C, non-condensing 0°C ~ 60°C (32°F	~140°F), sing				
Power Consumption 1.65W, 3.3V@0.5A 5.3W, 3.3V@1.39A, 12V@0.06A 3.51W, 3.3V@0.9A, 12V@0.045A 12W, 1A@12V (v	/ith relay)				

Yes



Yes



Panel Solutions Introductio

Standard-Definition Software Compression Capture Card Selection Guide

Model Name	IVC-268G		IVC-20	0G-RS	IVC-	168G	IVC-10	0G-RS
Form Factor	PCI		P	CI	P	CI	PCI	
▲ Interface							101	
Video Input			4 channel	s composite video N	ISC/PAL/SECAM au	to sensing		
Video Input Type	в	NC	BNC		BNC		BI	
Audio Input	4 channels		N/A		1 channel analog audio Active channel selectable by software		N/A	
Audio Input Type	Audio cable with	3.5mm audio jack	N	/A	Audio cable with 3.5mm audio jack		N	/A
Bus Interface	PCI Rev. 2	.1 compliant	PCI Rev. 2.	1 compliant	PCI Rev. 2.	1 compliant	PCI Rev. 2	1 compliant
Alarm I/O	Y	íes .	Ye	es	Ye	es	Y	es
Card ID			DIF	switch selectable w	ith LED for ID indicat	ion		
I ED Indicator				N	/A			
Video Processing								
Video Compression			Software or	moression			Software	ompression
Video Engino	4 x Tochu	ell TW/6805	4 x Concyce	ont CX25879	1 v Tochur	JI TW6805		on CY25879
Resolution & Frame Rate	NTSC: 720 × 480 720 × 240 640 × 240 320 × 240 160 × 120 NTSC: Total 12 cha PAL/SEACAM: 1	PAL/SECAM: 720 × 576 720 × 480 720 × 288 704 × 576 704 × 288 640 × 480 640 × 240 352 × 288 320 × 240 176 × 144 160 × 120 Page 201 for 4 nnels otal 100fps @ D1	NTSC: 720 × 480 720 × 288 720 × 240 640 × 480 640 × 288 640 × 240 352 × 288 352 × 240 320 × 240 240 × 180 240 × 176 176 × 144 160 × 120 128 × 96 88 × 72 80 × 60 NTSC: Up to 120fp PAL/SEACAM: U	PAL/SECAM: 720 × 576 720 × 480 720 × 288 720 × 240 704 × 576 640 × 480 640 × 288 640 × 240 352 × 288 352 × 240 320 × 240 340 × 120 240 × 176 176 × 144 160 × 120 128 × 96 88 × 72 80 × 60 bs at all resolutions p to 100fps at all	NTSC: 720 × 480 720 × 240 640 × 240 320 × 240 160 × 120 NTSC: Total 3 4 cha PAL/SEACAM: To	PAL/SECAM: 720 × 576 720 × 480 720 × 288 700 × 248 704 × 576 704 × 288 640 × 480 640 × 480 640 × 240 352 × 288 320 × 240 176 × 144 160 × 120 Ofps @ D1 for nnels tal 25fps @ D1 for	NTSC: 720 × 480 720 × 288 720 × 240 640 × 480 640 × 288 640 × 240 352 × 288 352 × 240 320 × 240 240 × 176 176 × 144 160 × 120 128 × 96 88 × 72 80 × 60	PAL/SECAM: 720 × 576 720 × 576 720 × 288 720 × 240 704 × 576 640 × 480 640 × 288 640 × 240 352 × 288 352 × 240 320 × 240 320 × 240 240 × 180 240 × 176 176 × 144 160 × 120 128 × 96 88 × 72 80 × 60 st at all resolutions Up to 25fps at all
	for 4 c	hannels	103010	1013	4 cha	nnels	10301	utions
Audio Processing	0		N	10	0-4			
Sampling Rate	8kHz, 32kHz, 4 (hardwa	44.1kHz, 48kHz are spec.)	N/A N/A		8kHz, 32kHz, 44.1kHz and 48kHz (hardware spec.)		N/A	
Quantization	8-bit, 16-b (hardwa	it and 24-bit are spec.)	N/A		8-bit, 16-bit and 24-bit (hardware spec.)		N/A	
 Functionality 								
Video/Audio Synchronization	Y	′es	N/A		Yes		Yes	
Detection	Y	′es	Ye	es	Ye	es	Y	es
On-screen Display	Y	'es	Ye	es	Ye	es	N	//A
Motion Detection	Y	′es	N/A		Yes		N/A	
 System Requirem 	ent							
System				x86 PC compa	tible computer			
Memory			256MB or above					
Graphics			DirectX c	ompatible VGA card	supporting YUV over	lay mode		
 Software Support 								
Device Driver	Windows® 2000/XP Linux Kernel 2.6		Windows® 98/SE/ME/2000/XP Linux Kernel 2.4		Windows® 2000/XP Linux Kernel 2.6		Windows® 98/SE/ME/2000/XP Linux Kernel 2.4	
SDK			Provides	SDK and demo proc	gram with source coo	e in C++		
 Others 								
Dimensions	119.91 mm	x 106.68 mm	119.91 mm x	(106.68 mm	119.91 mm 3	(106.68 mm	119.91 mm :	x 106.68 mm
Operating Temperature			(0°C ~ 60°C (32°~140	0°F), non-condensing	I		
Power Consumption	12W, 2.4A@5V (with relay)		15W, 3A@5V (with relay)		10W, 2A@5V (with relay)		10.7W, 2.14A@5V (with relay)	





0 Panel Solutions Introduction

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Standard-Definition Software Compression Capture Card Selection Guide



Power Consumption 7.8W, 0.65A@12V (without relay) 3.5W, 0.7A@5V (with relay)







Model Name	IVCE-8784	PM-1056	IVC-8371P	PM-1059
Form Factor	PCle	PCI-104	PCI	PCI-104
 Interface 				
Video Input	4 channels composite video NTSC/PAL/SECAM auto sensing			
Video Input type	BNC	BNC	BNC	BNC
Audio Input	N/A	N/A	4 channels	4 channels
Audio Input Type	N/A	N/A	DB-9 to 3.5mm phone jack aduio cable	DB-9 to 3.5mm phone jack aduio cable
Bus Interface	PCle x1	PCI Rev. 2.1 compliant	PCI Rev. 2.1 compliant	PCI Rev. 2.1 compliant
Alarm I/O	Yes	Yes	Yes	Yes
Card ID	DIP switch selectable with LED for ID indication	DIP switch selectable with LED for ID indication	DIP switch selectable	DIP switch selectable
LED Indicator	N/A			

+ Video Processing

Video Compression	Software co	ompression	Software c	ompression	MPEG-2 main Pro MPEG-2 main Pro MPE H.2	el5 file @ Main level G-1 63	MPEG-4 Advanced Leve MPEG-2 main Pro MPE	l Simple Profile @ el5 ofile @ Main level G-1
Video Engine	4 x Conexar	nt CX25878	4 x Conexant CX25878		MPEG-4 Hardware Encode/Decode		MPEG-4 Hardware	e Encode/Decode
Resolution & Frame Rate	$\begin{array}{c} \text{NTSC:} \\ 720 \times 480 \\ 720 \times 288 \\ 720 \times 240 \\ 640 \times 480 \\ 640 \times 288 \\ 640 \times 240 \\ 352 \times 288 \\ 352 \times 240 \\ 320 \times 240 \\ 240 \times 180 \\ 240 \times 176 \\ 176 \times 144 \\ 160 \times 120 \\ 128 \times 96 \\ 88 \times 72 \\ 80 \times 60 \end{array}$	PAL/SECAM: 720 × 576 720 × 480 720 × 288 720 × 240 704 × 576 640 × 480 640 × 288 640 × 240 352 × 288 352 × 240 320 × 240 320 × 240 320 × 180 240 × 180 240 × 176 176 × 144 160 × 120 128 × 96 88 × 72 80 × 60	NTSC: 720 x 480 720 x 288 720 x 240 640 x 480 640 x 288 640 x 240 352 x 288 352 x 240 320 x 240 240 x 180 240 x 176 176 x 144 160 x 120 128 x 96 88 x 72 80 x 60	PAL/SECAM: 720 x 576 720 x 480 720 x 288 720 x 240 704 x 576 640 x 480 640 x 288 640 x 240 352 x 288 352 x 240 320 x 240 320 x 240 240 x 180 240 x 176 176 x 144 160 x 120 128 x 96 88 x 72 80 x 60 105 @ D1 for 4	NTSC: 720 x 480 720 x 240 640 x 480 640 x 240 360 x 240 320 x 240 320 x 240	PAL/SECAM: 720 x 576 720 x 288 640 x 576 640 x 288 360 x 288 320 x 288	NTSC: 720 x 480 720 x 240 640 x 480 640 x 240 360 x 240 320 x 240 320 x 240	PAL/SECAM: 720 x 576 720 x 288 640 x 576 640 x 288 360 x 288 320 x 288 320 x 288
	NTSC: Up to 120fp	s at all resolutions	char	nels	chan	nels	chan	nels
	resolu	itions	PAL/SEACAM: Total 25fps @ D1 for		PAL/SEACAM: Total 25fps @ D1 for		PAL/SEACAM: Total 25fps @ D1 for	
♦ Audio Processing			- 616		4 6181	incia	4 6181	incia
Audio Compression	N/	'A	N	/A	Encoding Sta	ndard G.726	G.726 (ADF	PCM/PCM)
Sampling Rate	N/	Δ	N/A		8kHz, 44.1kHz and 48kHz		8kHz 44 1kH	z and 48kHz
Quantization	N/	Ά	N/A		8-bit data depth		8-bit data	a depth
Functionality								
Video/Audio synchronization	Yes		Y	es	Ye	S	Ye	S
Video Loss Detection	Ye	Yes Yes		es	Yes		Ye	S
On-screen Display	Yes Yes		Yes		Yes			
Motion Detection	Ye	es	Y	es	Hardware built-in		Hardware built-in	
Watermaking	N/	Ά	N/A		128-bit secrete key, adjustable length		128-bit secrete key	, adjustable length
 System Requirem 	ent							
System	x86 PC compatible computer							
Memory	256MB or above							
Graphics	DirectX compatible VGA card supporting YUV overlay mode							
 Software Support 								
Device Driver	Windows® 98/S	E/ME/2000/XP	Windows® 98/S Linux Ke	SE/ME/2000/XP ernel 2.4	Windows®	2000/XP	Windows®	2000/XP
SDK	Provides SDK and demo program with source code in C++							
♦ Others								
Dimensions	119.91 mm x	106.68 mm	95.89 mm x 90.17 mm		119.91 mm x 106.68 mm 95.89 mm x 90.17 mm		90.17 mm	
Operating Temperature	0° C ~ 60° C (32° ~140°F), non-condensing							

2 Video Capture Solutions







7.5W, 1.5A@5V (without relay)

7.5W, 1.5A@5V (without relay)

IVCME-C604

PCIe Mini video/ audio capture card with 4-channel video/ audio input, total 120fps@D1 for 4 channels (NTSC)





Video/Audio Input Connector (CN1)





GPIO Connector (CN2)

Specifications

Interface

Video Input	4 channels composite video NTSC/PAL auto sensing
Video Input Type	BNC (BNC to DB-9 cable included)
Audio Input	4 channels analog
Audio Input Type	RCA (RCA to DB-9 cable included)
Bus Interface	PCle Mini x1
Alarm IO	Yes

Video Processing

Video Compression	Software compression		
Video Engine	1 x Conexant CX25854		
Resolution	NTSC: 720 x 576 720 x 480 720 x 288 720 x 240 352 x 240	PAL: 720 x 576 720 x 480 720 x 288 720 x 248	
Frame Rate	NTSC: Total 120fps @ D1 for 4 channels PAL: Total 100fps @ D1 for 4 channels		

Audio Processing

Power Consumption

Audio i locessing		
Audio Compression	Software compression	
Sampling Rate	8kHz, 16kHz, 32kHz, 44.1kHz and 48kHz	
Quantization	16-bit	
Functionality		
Video Loss Detection	Yes	
On-screen Display	Yes	
Motion Detection	Yes (hardware spec.)	
System Requirement		
System	x86 PC compatible computer	
Memory	512MB or above	
Others		
Dimensions	51 mm x 30 mm	
Operating Temperature	0°C ~ 60°C, non-condensing	

1.65W (3.3V@0.5A)

Features

- Single card 4-channel composite video (NTSC/PAL) solution
- PCIe Mini card interface supported
- Compatible with Linux, Windows® XP and Windows® 7 (32-bit and 64-bit)
- Total 120fps @ D1 for 4 channels (NTSC)
- External GPIO daughter board with 4 inputs and 4 outputs (optional)
- SDK available for customer to create customized applications



System Block

4	4 CH Audio & 4 CH Video Inputs		
GF	PIO 4 CH Inputs & 4 CH Outputs		
	Conexant CX25854		
L	PCIe BUS		
PCIe Mini Connector			

video/Audio input Connector (CN1)		
Signal		
GND		
Video In CH1		
Video In CH2		
Video In CH3		
Video In CH4		
Audio In CH1		
Audio In CH2		
Audio In CH3		
Audio In CH4		
GND		

GPIO Connector (CN2)		
Pin No.	Signal	
1	GND	
2	DI1	
3	DI2	
4	DI3	
5	DI4	
6	DO1	
7	DO2	
8	DO3	
9	DO4	

DB-9 to Input Jack

Packing List

DB-9 to BNC Jack

1 x IVCME-C604 capture card
1 x BNC to DB-9 cable
1 x RCA to DB-9 cable
1 x Video/Audio input cable kit
1 x Utility CD
1 x QIG



Ordering Information

Part No.	Description
IVCME-C604-R10	PCIe Mini video/audio capture card with 4-channel video/ audio input, total 120fps@D1 for 4 channels (NTSC)
VIOCARD-GPIO-RS-R10	8 GPIO channels (4 digital inputs and 4 relay outputs)
32225-002200-100-RS	GPIO card to IVC capture card connection cable



wer Supply Peripheral





PCIe video/audio capture card with 8-channel video/audio input, total 240fps@D1 for 8 channels (NTSC)





Cascade Reset

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Features

- Single card 8-channel solution
- PCI Express interface provides higher bandwidth and great performance
- Compatible with Linux, Windows® XP and Windows® 7 (32-bit and 64-bit)
- Total 240fps @ D1 for 8 channels (NTSC)
- Supports multiple cards up to 128 channels video/ audio input
- External GPIO daughter board supports up to 8 inputs and 8 outputs (optional)
- SDK available for customer to create customized applications
- Supports 8 channels video/audio input and 2 channels video output



Specifications

Interface

Video Input	8 channels composite video NTSC/PAL auto sensing
Video Input Type	BNC (BNC+RCA to DB-26 cable included)
Audio Input	8 channels
Audio Input Type	RCA (BNC+RCA to DB-26 cable included)
Video Output	2 channels
Video Output Type	BNC (BNC+RCA to DB-26 cable included)
Bus Interface	PCle x1
Alarm I/O	Yes
Card ID	Rotary switch selectable with LED for ID indication
LED Indicator	Red LED for system Green LED for AP running Yellow LED for watchdog

Video Processing

Video Compression	Software compression		
Video Engine	1 x Conexant CX25853		
Resolution	NTSC: 720 x 576 720 x 480 720 x 288 720 x 240 352 x 240 320 x 240 160 x 120	PAL: 720 x 576 720 x 480 720 x 288 720 x 248 352 x 248 352 x 240 320 x 240 160 x 120	
Frame Rate	NTSC: Total 240fps @ D1 for 8 channels PAL: Total 200fps @ D1 for 8 channels		

Audio Processing

Audio Compression	Software compression
Sampling Rate	32kHz, 44.1kHz, 48kHz, 96kHz (hardware spec.)
Quantization	24-bit (hardware spec.)
Functionality	

Video Loss Detection	Yes
On-screen Display	Yes
Motion Detection	Yes (hardware spec.)

System Requirement

System	x86 PC compatible computer, PCI Express 1 lane, compatible with 1, 4, 8 and 16 lane PCIe slots
Memory	512MB or above
Others	
Dimensions	111 mm x 102.4 mm
Operating Temperature	$-5^{\circ}C \sim 65^{\circ}C$, non-condensing
Power Consumption	5.3W (3.3V@1.39A, 12V@0.06A)

Packing List

1 x IVCE-C608 capture card	
1 x Video/Audio input cable kit	1 x Utility CD
1 x Reset cable	1 x QIG



Ordering Information

Part No.	Description
IVCE-C608-R10	PCIe video/audio vapture vard with 8-channel Video/ audio input, total 240fps@D1 for 8 channels (NTSC)
VIOCARD-GPIO-RS-R10	8 GPIO channels (4 digital inputs and 4 relay outputs)
32225-002200-100-RS	GPIO card to IVC capture card connection cable



Industrial Computing Solutions







olutions



PCIe video/audio capture card with 4-channel video/audio input, total 120fps@D1 for 4 channels (NTSC)

Cascade Reset





Specifications

Interface

Video Input	4 channels composite video NTSC/PAL auto sensing
Video Input Type	BNC (BNC+RCA to DB-26 cable included)
Audio Input	4 channels
Audio Input Type	RCA (BNC+RCA to DB-26 cable included)
Video Output	2 channels
Video Output Type	BNC (BNC+RCA to DB-26 cable included)
Bus Interface	PCle x1
Alarm I/O	Yes
Card ID	Rotary switch selectable with LED for ID indication
LED Indicator	Red LED for system Green LED for AP running Yellow LED for watchdog

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Video Processing

Video Compression	Software compression	
Video Engine	1 x Conexant CX25850	
Resolution	NTSC: 720 x 576 720 x 480 720 x 288 720 x 240 352 x 240 320 x 240 160 x 120	PAL: 720 x 576 720 x 480 720 x 288 720 x 248 352 x 288 352 x 288 352 x 240 320 x 240 160 x 120
Frame Rate	NTSC: Total 120fps @ D1 for PAL: Total 100fps @ D1 for 4	4 channels channels
Audio Processing		
Audio Compression	Software compression	

Audio Compression	Softw	are compression
Sampling Rate	32kHz	z, 44.1kHz, 48kHz, 96kHz (hardware spec.)
Quantization	24-bit	(hardware spec.)
Functionality		
Video Loss Detection		Yes
On-screen Display		Yes
Motion Detection		Yes (hardware spec.)

IVCE-C604-2012-V10

Features

- Single card 4-channel solution
- PCI Express interface provides higher bandwidth and great performance
- Compatible with Linux, Windows[®] XP and Windows® 7 (32-bit and 64-bit)
- Total 120fps @ D1 for 4 channels (NTSC)
- Supports multiple cards up to 64 channels video/ audio input
- External GPIO daughter board with 4 inputs and 4 outputs (optional)
- SDK available for customer to create customized applications
- Supports 4 channels video/audio input and 2 channels video output

GPIO Port



System Requirement

	System	x86 PC compatible computer, PCI Express 1 lane, compatible with 1, 4, 8 and 16 lane PCIe slots
	Memory	512MB or above
Others		
	Dimensions	111.23 mm x 102.39 mm
	Operating Temperature	$-5^{\circ}C \sim 65^{\circ}C$, non-condensing
	Power Consumption	3.51W (3.3V@0.9A, 12V@0.045A)

Packing List

1 x IVCE-C604 capture card	
1 x Video/Audio input cable kit	1 x Utility CD
1 x Reset cable	1 x QIG



Ordering Information

Part No.	Description
IVCE-C604-R10	PCIe video/audio vapture card with 4-channel video/ audio input, total 120fps@D1 for 4 channels (NTSC)
VIOCARD-GPIO-RS-R10	8 GPIO channels (4 digital inputs and 4 relay outputs)
32225-002200-100-RS	GPIO card to IVC capture card connection cable









Panel Solutions Introduction

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wer Supply Peripherals

www.ieiworld.com

IVC-100G-RS PCI video capture card with four video input channels, total 30 fps@720x480 (NTSC)





Features

- Eight GPIO relay channels (4 in / 4 out) on board, included I/O kit & cable
- Four video channels with 30 fps @ 720 x 480 (NTSC) per channel
- Support multiple cards (maximum 64 ports video input)
- Drivers for Windows® and Linux available
- Applications: Video surveillance, security, public transportations, police and government
 - Notice: IVC-100-RS-R20 does not support GPIO function and has no relay components on board.



GPIO daughter board and cable

Specifications

Interface

Video Input	4 channels composite video NTSC, PAL and SECAM auto sensing
Video Input Type	BNC
PCI Interface	PCI Rev 2.1 compliance
CARD ID	DIP switch selectable with LED for ID indication
Alarm I/O	GPIO daughter board with 4 inputs and 4 outputs (IVC-100G-RS-R20 only)

Software Support

Device Driver	Windows® 2000, XP / Linux kernel 2.6
SDK	Provides SDK and demo program with sample source code in C++ $% \mathcal{C}$

Video Processing

Video Engine	1 x Conexant Fusion BT878A	
Resolution	NTSC: 720 x 480 720 x 288 720 x 240 640 x 480 640 x 288 640 x 240 352 x 288 352 x 240	PAL / SECAM: 720 × 576 720 × 480 720 × 288, 720 × 240 704 × 576 640 × 480 640 × 288 640 × 240 352 × 288
Frama Bata	NTSC: Up to 30 fps per channel	
Frame Rate	PAL/SECAM: Up to 25fps at all re	esolutions

Multiple Card Support

Card	Video Port	Audio Port	Max. Channel / Resolution Support	Total Frame (NTSC/PAL)
1	4	N/A	4 channels, D1 (720 x 480)	30/25 fps
4	16	N/A	16 channels, D1 (720 x 480)	120/100 fps
8	32	N/A	32 channels, QVGA (320 x 240)	240/200 fps
16	64	N/A	64 channels, QVGA (320 x 240)	480/400 fps



Supports multiple cards (maximum 64 ports video input)

System Poquirement

• Oystelli Requirement			
	System	x86 compatible computer	
	Graphic	DirectX compatible VGA card supporting YUV overlay mode	
♦ Others			
	Dimensions	119.91 mm x 106.68 mm	
	Operating Temperature	$0^{\circ}C \sim 60^{\circ}C$ ($32^{\circ}F\sim 140^{\circ}F$), non-condensing	
	Power Consumption	10.7W, 2.14A@5V (with relay)	

Packing List

		1 x IVC-100G-RS-R20
	NC 100C BS B20	1 x GPIO daughter board with cable
	IVC-100G-RS-R20	1 x Utility CD
		1 x QIG
		1 x IVC-100-RS-R20
	IVC-100-RS-R20	1 x Utility CD
		1 x QIG

Ordering Information

Part No.	Description
IVC-100G-RS-R20	PCI video capture card with four video input channels, total 30 fps@720x480 (NTSC), and GPIO daughter board
IVC-100-RS-R20	PCI video capture card with four video input channels, total 30 fps@720x480 (NTSC)











IVC-200G-RS PCI video capture card with four video input channels, total 120 fps@720x480 (NTSC)





The ID is programmed by a 4-digit DIP switch



Digit LED to show its ID (identification)



Features

- Eight GPIO relay channels (4 in / 4 out) on board, included I/O kit & cable
- Four video channels with 120 fps @ 720 x 480 (NTSC) per channel
- Support multiple cards (maximum 16 ports video input)
- Drivers for Windows® and Linux available
- Applications: Video surveillance, security, public transportations, police and government
 - Notice: IVC-200-RS-R20 does not support GPIO function and has no relay components on board.



Specifications

Interface

Video Input	4 channels composite video NTSC, PAL and SECAM auto sensing
Video Input Type	BNC
PCI Interface	PCI Rev 2.1 compliance
CARD ID	DIP switch selectable with LED for ID indication
Alarm I/O	GPIO daughter board with 4 inputs and 4 outputs (IVC-200G-RS-R20 only)

Software Support

Device Driver	Windows® 98 SE, ME, 2000, XP / Linux kernel 2.4
SDK	Provides SDK and demo program with sample source code in $\ensuremath{C^{++}}$

Video Processing

Video Engine	4 x Conexant Fusion BT878A	
Resolution	NTSC: 720 x 480 720 x 288 720 x 240 640 x 480 640 x 288 640 x 240 352 x 288 352 x 240	PAL / SECAM: 720 × 576 720 × 480 720 × 288 720 × 240 704 × 576 640 × 480 640 × 288 640 × 240 352 × 288
Frama Bata	NTSC: Up to 120 fps per channe	1
Frame Rate	PAL /SECAM: Up to 100 fps per	channel

Multiple Card Support

Card	Video Port	Audio Port	Max. Channel / Resolution Support	Total Frame (NTSC/PAL)
1	4	N/A	4 channels, D1 (720 x 480)	120/100 fps
4	16	N/A	16 channels, QVGA (320 x 240)	480/400 fps

System Requirement

System	x86 compatible computer
Graphic	DirectX compatible VGA card supporting YUV overlay mod

Eunctionality

, anotonianty			
Video Loss Detection	Yes		
Multi-screen Support	Yes		

Others

Dimensions	119.91 mm x 106.68 mm			
Operating Temperature	$0^{\circ}C \sim 60^{\circ}C$ ($32^{\circ}F\sim 140^{\circ}F$), non-condensing			
Power Consumption	15W, 3A@5V (with relay)			

Packing List

	1 x IVC-200G-RS-R20			
	1 x GPIO daughter board with cable			
WG-200G-R3-R20	1 x Utility CD			
	1 x QIG			
	1 x IVC-200-RS-R20			
IVC-200-RS-R20	1 x Utility CD			
	1 x QIG			

Ordering Information

Part No.	Description
IVC-200G-RS-R20	PCI video capture card with four video input channels, total 120 fps@720x480 (NTSC), and GPIO daughter board
IVC-200-RS-R20	PCI video capture card with four video input channels, total 120 fps@720x480 (NTSC)







Pane Solutions Introduction

IVCE-8784

PCI Express video capture card with four video input channels, total 120 fps@720x480 (NTSC)



The ID is programmed by a 4-digit DIP switch





Features

Optios

- External GPIO relay board with eight channels (4 in / 4 out), included I/O kit & cable
- PCI Express x1 interface with PCIe-to-PCI bridge onboard
- Four video channels with 120 fps @ D1 per channel
- NTSC/PAL/SECAM auto sensing
- Supports multiple cards (maximum 32 ports video input)

	 SDK with Windows® drivers Applications: Video surveillance, security, public transportations, police and government 							
	Specif:	icati	ions	1				
	Video Inn	, ut	4 char	nole	composite vid		DAL and S	ECAM auto consing
	Connecto	r	BNC	ineis i	composite via	1011130	, FAL and C	
	PCIe Inter	face	PClex	:1				
	Card ID		DIP sv	vitch s	selectable with	h LED for	ID indicatio	n
	 Software 	supp	ort					
	Device Dr	iver	Windo	WSR	98 SE ME 2	2000 XP		
	SDK	1001	Provid	es SE	OK and demo	program v	with sample	source code in C++
	▲ Video Pr	ncess	ina			p. = 3. =		
	Video End	nine	4 × Co	nova	nt Eucion BT9	2724		
	VIGEO LITE	Jine	NTSC			DT OA	PAL / SEC	۰۵M-
	Resolution	n	720 x 4	480, 7 480, 6	720 x 288, 72 640 x 288, 64	0 x 240, 0 x 240,	720 x 576 720 x 240	, 720 x 480, 720 x 288 , 704 x 576, 640 x 480
	Frame Ra	ite	NTSC	: Up t	o 120 fps per	channel		
			PAL /S	ECA	M: Up to 100	fps per ch	annel	
	 System I 	Requir	ement	t				
	System		x86 co CPU	mpat	ible computer	works pe	rfectly with	system using 400MH
	Graphic		Direct	K com	patible VGA	card supp	orting YUV	overlay mode
	 Function 	ality						
	Video Au			dio	dio Max. Channel / Total Fran			Total Frame
	Card Port Po			ort	ort Resolution Support		(NTSC/PAL)	
	1	4	N	/A	4 channel	s, D1 (720	0 x 480)	120/100 fps
	4	16	N	/A	16 channel	ls, D1 (72	20 x 480)	480/400 fps
	8	32	N	/A	32 channels	, QVGA (3	320 x 240)	960/800 fps
	 System I 	Requir	ement	t				
	System		x86 co	mpat	ible computer			
	Graphics		Direct	K com	patible VGA	card supp	orting YUV	overlay mode
	 Function 	onality						
	Video Los	s Detec	tion	Yes				
	Multi-scre	en Supp	ort	Yes				
	 Others 							
	Dimension	ns		119.91 mm x 106.68 mm				
	Operating Temperature			0°C ~ 60°C (32°F~140°F), non-condensing				
	Power consumption				7.8W, 0.65A@12V (without relay)			
	Packir	ng L	ist					
1 x IVCE-8784								
	1 x Utility C	D				1 x QIG		
(Order	ing	Info	orn	nation			
	Part No.	-		De	Description			
		D.(A		PC	I Express vid	leo captur	e card with	four video input
	IVCE-8784-R10			ch	channels, total 120 fps@720v480 (NTSC)			

channels, total 120 fps@720x480 (NTSC)

VIOCARD-GPIO-RS-R10 8 GPIO channels (4 digital inputs and 4 relay outputs)

PCI-104 video capture card with four video input channels, total 30 fps@720x480 (NTSC) The ID is programmed by a 4-digit DIP switch Digit LED to show its ID Applications: Video surveillance, security, entification) public transportations, police and government VIN-KIT-01 4 x BNC Connector Board **Specifications** Interface 4 channels composite video NTSC, PAL and SECAM auto sensing Video Input Connector BNC Audio Input 4-channel analog audio Connector DB9 to 3.5mm phone jack audio cable PCle PCI 2.1 compliance Interface Card ID Selectable with LED for ID indication Alarm I/O External GPIO daughter board with 4 inputs and 4 outputs (optional) Software support Device Driver Windows® 2000, XP, Linux Kernel 2.4 SDK Provides SDK and demo program with sample source code in C++ Video Processing Video Engine 1 x Conexant Fusion™ BT878A NTSC: PAL / SECAM: 720 x 480 720 x 288 720 x 576 720 x 480 Resolution 720 x 240 640 x 480 720 x 288 720 x 240 640 x 288 704 x 576 640 x 240 640 x 480 NTSC: Total 30fps @D1 for 4 channels PAL/SECAM: 25fps @D1 for 4 channels Frame Rate Multiple Card Support Max. Channel / Video Audic Card (NTSC/PAL) Port Port **Resolution Support** 4 N/A 4 channels, D1 (720 x 480) 30/25 fps 1 4 16 N/A 16 channels, D1 (720 x 480) 120/100 fps System Requirement System x86 compatible computer DirectX compatible VGA card with YUV overlay mode supporting Graphics Functionality Video / Audio synchronization Yes Video Loss Detection Yes Motion Detection Hardware built-in Watermarking 128-bit secrete key, adjustable length Others 95.89 mm x 90.17 mm Dimensions Operating Temperature $0^{\circ}C \sim 60^{\circ}C$ ($32^{\circ}F \sim 140^{\circ}F$), non-condensing Power Consumption 3.5W@5V (with relay) Packing List 1 x PM-1056 1 x Utility CD 1 x User manual 1 x Audio cable (P/N: 32000-038100-RS) 1 x Video flat cable (P/N: 32000-038100-RS)

PM-1056-RS-R21

Ordering Information

Part No.	Description
PM-1056-4P-RS-R21	PCI-104 video capture card with four video input channels, total 30 fps@720x480 (NTSC)
PM-1056-4PB-RS-R21	PCI-104 video capture card with four video input channels, total 30 fps@720x480 (NTSC), and VIN-Kit-01













IVCE-8784-2012-V10

IVC-8371



PCI video/audio capture card with four video input channels, total 30 fps@720x480(NTSC), four audio input channels, and MPEG-4 hardware codec



VIOCARD-GPIO (optional)



Audio Cable

Specifications Interface

Video Input	4 channels comp	oosite video NTS	C, PAL and SECA	M			
Video Input Type	BNC						
Audio Input	4 channels	4 channels					
Audio Input Type	DB9 to 3.5 mm p	hone jack audio	cable				
PCI Interface	PCI Rev 2.1 com	npliance					
Card ID	DIP switch select	table					
Software Support							
Device Driver	Driver for Window	Driver for Windows® 2000/XP					
SDK	Provides SDK and demo program with source code in C++						
Video Processing	g						
Video Engine	MPEG-4 advanced simple profile @ level 5 (ISO/IEC 14496-2) MPEG-2 main profile @ main level (ISO/IEC 13818-2) MPEG-1 (ISO/IEC 11172-2) H.263 (ITU-T recommendation H.263)						
Resolution	NTSC: 720 x 480 720 x 240 640 x 480	640 x 240 360 x 240 320 x 240	PAL / SECAM: 720 x 576 720 x 288 640 x 576	640 x 288 360 x 288 320 x 288			

System Requirement

System	x86 compatible computer works perfectly with system using 400MHz CPU				
Graphics	DirectX compatible VGA card supporting YUV overlay mode				
Functionality					
Video/Audio Synchronization Yes					

On-screen Display	Yes
Camera Loss Detection	Yes
Motion Detection	Hardware built-in
Watermarking	128-bit secret key, adjustable length
Encoding Bit Rate Control	VBR, CBR for each channel
Others	
D: .	440.04

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	Dimensions	119.91 mm x 106.68 mm			
	Operating Temperature	0°C ~ 60°C (32°F~140°F),non-condensing			
	Power Consumption	7.5W, 1.5A@5V (without relay)			

Packing List

1 x IVC-8371P	1 x DB-9 to 3.5 mm phone jack 4-channel audio cable
1 x Utility CD	1 x QIG

Ordering Information

Part No.	Description
IVC-8371P-R10	PCI video/audio capture card with four video input channels, total 30 fps@720x480 (NTSC), four audio input channels, and MPEG-4 hardware codec
VIOCARD-GPIO-RS-R10	8 GPIO channels (4 digital inputs and 4 relay outputs)

PM-1059 PCI-104 video/audio capture card with four video input channels,

MPEG-4 hardware codec

total 30 fps@720x480(NTSC), four audio input channels, and



MPEG-4 Hardware Encoder / Decoder Card ID selector











Specifications

DB9 to RCA jack audio cable (P/N: 32000-038100-RS)

◆ Interface						
Video Input	4 chanr	4 channels composite video				
Video Input Interface	8-pin 2.	8-pin 2.54 mm connector on board				
Audio Input	4 chann	4 channels				
Audio Input Interface	8-pin 2.	8-pin 2.54 mm connector on board				
PCI-104 Interface	PCI Rev. 2.1 complaint					
Card ID	DIP sw	DIP switch selectable				
 Software Support 						
Device Driver	Driver f	or Windo	ws® 2000 or XP			
SDK	Provide	s SDK a	nd demo prograr	m with source coo	le in C++	
 Video Processing 						
Video Engine	MPEG- MPEG- MPEG- H.263 (MPEG-4 advanced simple profile@level 5 (ISO/IEC 14496-2) MPEG-2 main profile@main level (ISO/IEC 13818-2) MPEG-1 (ISO/IEC 11172-2) H.263 (ITU-T recommendation H.263)				
Resolution	NTSC: 720 x 4 720 x 2 640 x 4	80 40 80	640 x 240 360 x 240 320 x 240	PAL / SECAM: 720 x 576 720 x 288 640 x 576	640 x 288 360 x 288 320 x 288	
♦ System Requirement						
System	x86 cor	npatible	computer			
Graphics	DirectX	compati	ble VGA card, su	pporting YUV ov	erlay mode	
 Functionality 						
Video/Audio Synchron	ization	Yes				
On-screen Display		Yes				
Camera Loss Detection		Yes				
Motion Detection	Hardware built-in					
Watermarking	128-bit secret key, adjustable length					
Encoding Bit Rate Con	VBR, CBR for each channel					
 Audio Processing 						
Audio Compression		G.726 (ADPCM/PCM)				
Sampling Rate	Sampling Rate		8kHz, 44.1kHz and 48kHz			
Quantization	Quantization		8-bit data depth			
 Others 						

Others	
Dimensions	96 mm x 91 mm
Operating Temperature	0°C ~ 60°C (32°F~140°F), non-condensing
Power Consumption	7.5W, 1.5A@5V (without relay)

Packing List

1 x PM-1059	1 x Video input daughter board	1 x Utility CD			
1 x DB-9 to RCA jack audio cable	1 x 2 x 4-pin 2.54 mm cable	1 x QIG			
1 x 2 x 4-pin 2.54 mm to DB-9 cable					

Ordering Information

Part No.	Description
PM-1059-R10	PCI-104 video/audio capture card with four video input channels, total 30 fps@720x480 (NTSC), four audio input channels, and hardware 4 hardware codec







Power Supply Peripherals

Panel Solutions Introduction

www.ieiworld.com

2x5-nin 2 54 nitch







Digit LED to show it (identification)

Specifications

Interface

	Video Input	4 channels composite video NTSC, PAL and SECAM auto sensing
,	Connector	BNC
	Audio Input	1 channel analog audio Active channel selectable by software
,	Connector	Audio kit with 3.5 mm audio jack connector
	PCI Interface	PCI 2.1 compliance
	Card ID	Selectable with LED for ID indication
	Alarm I/O	GPIO daughter board with 4 inputs and 4 outputs
S	Software Supp	ort
	Device driver	Windows® 2000, XP, Linux kernel 2.6

SDK Provides SDK and demo program with sample source code in C++ Surveillance Software supports 25/30fps@1 channel video/audio monitoring and software support recording

Video Processing

		5				
	Video Engine	1 x Techwell TW6805				
		NTSC:	PAL / SECAM:			
		720 x 480	720 x 576	640 x 480		
		720 x 240	720 x 480	640 x 240		
Resolution	640 x 480	720 x 288	352 x 288			
	640 x 240	720 x 240	320 x 240			
	320 x 240	704 x 576	176 x 144			
	160 x 120	704 x 288	160 x 120			
	Frame Rate	NTSC: Four video channe	els with 30 fps @ D1 pe	er channel		
	Resolution Frame Rate	640 x 480 640 x 240 320 x 240 160 x 120 NTSC: Four video channe	720 x 288 720 x 240 704 x 576 704 x 288 els with 30 fps @ D1 pc	352 x 288 320 x 240 176 x 144 160 x 120 er channel		

PAL and SECAM: Four video channels with 25 fps @ D1 per channel

Multiple Card Support

Card	Video Port	Audio Port	Support max. Channel / Resolution	Total Frame (NTSC/PAL)
1	4	1	4 channels, D1 (720 x 480)	30/25 fps
4	16	4	16 channels, D1 (720 x 480)	120/100 fps
8	32	8	32 channels, QVGA (320 x 240)	240/200 fps
16	64	16	64 channels, QVGA (320 x 240)	480/400 fps



Support multiple cards (maximum 64 ports video input)

System Requirement

	-)					
	System	x86 cc	ompatible computer			
	Graphics	Direct	X compatible VGA card supporting YUV overlay mode			
♦ Others						
	Dimensions		119.91 mm x 106.68 mm			
	Operating Temperature		0°C ~ 60°C (32°F~140°F), non-condensing			
Power Consumption		on	10W. 2A@5V (with relay)			

Packing List

0	
1 x IVC-168G	1 x GPIO kit
1 x Audio input kit	1 x GPIO cable
1 x Utility CD	1 x QIG

Ordering Information

Part No.	Description	Part
IVC-168G-R20	PCI video/audio capture card with four video input channels, total 30 fps@720x480(NTSC), and one audio input channel	IVC-







Four 3.5 mm audio jacks

Interface 4 channels composite video Video Input NTSC, PAL and SECAM auto sensing Connector BNC Audio Input 4 channels analog audio Connector Audio kit with 3.5 mm audio jack connector PCI Interface PCI 2.1 compliance Card ID Selectable with LED for ID indication Alarm I/O GPIO daughter board with 4 inputs and 4 outputs Software Support Device driver Windows® 2000, XP, Linux kernel 2.6 Provides SDK and demo program with sample source code in C++ SDK Surveillance Software supports 100/120fps@4 channel video/audio monitoring software support and recording Video Processing Video Engine 4 x Techwell TW6805 NTSC: PAL / SECAM: 720 x 480 720 x 576 640 x 480 720 x 240 720 x 480 640 x 240 640 x 480 720 x 288 352 x 288 Resolution 640 x 240 720 x 240 320 x 240 320 x 240 704 x 576 176 x 144 160 x 120 704 x 288 160 x 120 NTSC: Four video channels with 120 fps @ D1 per channel Frame Rate PAL and SECAM: Four video channels with 100 fps @ D1 per channel Multiple Card Support Video Audio Total Frame Support max, Channel / Resolution Card Port Port (NTSC/PAL) 4 4 channels, D1 (720 x 480) 120/100 fps 1 4 16 16 16 channels, QVGA (320 x 240) 480/400 fps 4 System Requirement x86 compatible computer System DirectX compatible VGA card supporting YUV overlay mode Graphic Others 119.91 mm x 106.68 mm Dimensions Operating Temperature 0°C ~ 60°C (32°F~140°F), non-condensing



Packing List 1 x IVC-268G 1 x GPIO kit 1 x Audio input kit 1 x GPIO cable 1 x Utility CD 1 x QIG

Ordering Information

t No.	Description
-268G-R20	PCI video/audio capture card with four video input channels,
	total 120 fps@720x480(NTSC), and one audio input channel

ndustrial Computing









Int with four video input channels,

D-GPIO-RS-R10

4-bit output

PCI E total	VC Express v 120 fps@	E—2 video/audio 2720x480 (l	268G capture card w	l f vith four video input c audio input channel	hannels,	VIOCA 4-bit input and 4-bit	ARD-	(rd
The ID is 4-digit DIF	programme	ed by a					4-bit input	
Digit LED (identification	to show its tion)	s ID Inp	ut Kit		GPIO Kit & cable	C		0002 2H- 22H- 2002 2H- 22H- 2002 2H- 22H- 2
Spe	cific	ations	1		2x5-pin 2.54 pitch connector		IN IN	500
♦ Inter	rface						LECH LECH	83
Vide	o Input	4 char NTSC	nels composite v	rideo Mauto sensing		777	, , , , , , , , , , , , , , , , , , , ,	z
Con	nector	BNC		and benoing		4 - +	22 42 44	04 04
Audi	io Input	4 char	inels analog audi	0				
Con	nector	Audio	kit with 3.5 mm a	udio jack connector		$\oplus \oplus \oplus \oplus$		Ð
PCI	Interface	PClex	:1					_
Carc	d ID	Select	able with LED for	ID indication				
Alari	m I/O	GPIO	daughter board w	with 4 inputs and 4 outpo	uts	Termi	nal Block	
Solt	ice Driver	uppont r Windo	ws® 2000. XP. Li	inux kernel 2.6		CN4		
SDK	(Provid	es SDK and dem	nd demo program with sample source code in C++		ł	(1 RELAY	
Surv	/eillance	Softwa	are supports 100/	120fps@4 channel vide	o/audio monitoring			
softw Vide	ware supp	port and re	cording			ł	2 RELAY	
Vide	eo Engine	4 x Te	chwell TW6805					
Res	olution	NTSC 720 x 720 x 640 x 640 x 320 x 160 x	480 240 480 240 240 240 240	PAL / SECAM: 720 x 576 720 x 480 720 x 288 720 x 240 704 x 576 704 x 288	640 x 480 640 x 240 352 x 288 320 x 240 176 x 144 160 x 120	De alving Li	4 RELAY	
Fran	ne Rate	NTSC PAL a	Four video chan	nels with 120 fps @ D1 video channels with 10	per channel 0 fps @ D1 per	1 x VIOCARD-GPIO b	S L	
▲ Mulf	tinle Ca	chann rd Suppo	el H			1 x QIG		
	vic Vic	leo Audio	Support more	Channel / Resolution	Total Frame			
Ca	P	ort Port	Support max.		(NTSC/PAL)	Ordering In	nformati	0
1	. 1	+ 4 6 16	4 channel	ls, D1 (720 x 480)	480/400 fps	Part No.	Description	
8	3	2 32	32 channels	, QVGA (320 x 240)	960/800 fps		210 4-bit input	an
 Syst 	tem Re	quiremen	t				4-bit input a	а1 1
Syst	tem	x86 cc	mpatible comput	er		32225-002200-100-RS	GPIO card	το
Grap	phic	Direct	Compatible VG	A card supporting YUV	overlay mode			
 Other 	ers		110 01 mm v 10	16 68 mm			1 P/1 1	
Operating Temperature 0°C ~ 60°C			0°C ~ 60°C (32°	°F~140°F), non-conden	sina			
Pow	er Consu	Imption	12W, 1A@12V	(with relay)			-	
Pac	king	List						1 2 10 I
1 x IVC	CE-268G			1 x GPIO kit				
1 x Auc	1 x Audio input kit			1 x GPIO cable			E	
1 x Utility CD				I X QIG				

Ordering Information

Part No. IVCE-268G-R20

Description PCI Express video/audio capture card with four video input channels, total 120 fps@720x480 (NTSC), and one audio input channel

IVCE-8784-2012-V10



CN7 ELAY E ELAY 2 4 1 2 5 ELAY CN1

1 x VIOCARD-GPIO board	
1 x QIG	

rmation

Part No.	Description
VIOCARD-GPIO-RS-R10	4-bit input and 4-bit output GPIO card
32225-002200-100-RS	GPIO card to IVC capture card connection cable



Panel Solutions Introduction