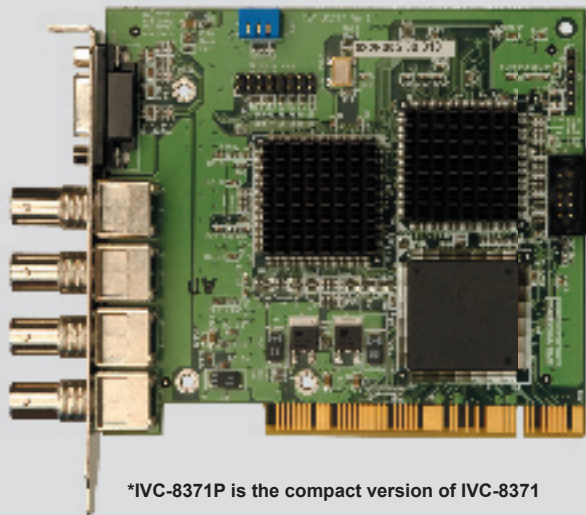


# IVC-8371P

Works Perfectly on 400MHz CPU System

4 Channel MPEG-4 Hardware Codec Video/Audio Capture Card



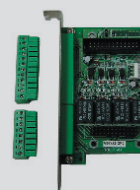
\*IVC-8371P is the compact version of IVC-8371

## Feature

1. Total 30 fps@720x480 for 4 channels
2. Multi-channel real time encoding/decoding
3. Video and Audio Synchronizing
4. Supports On-Screen-Display (OSD)
5. Built-in Camera Lost Detection
6. Hardware Motion Detection
7. Digital Watermarking

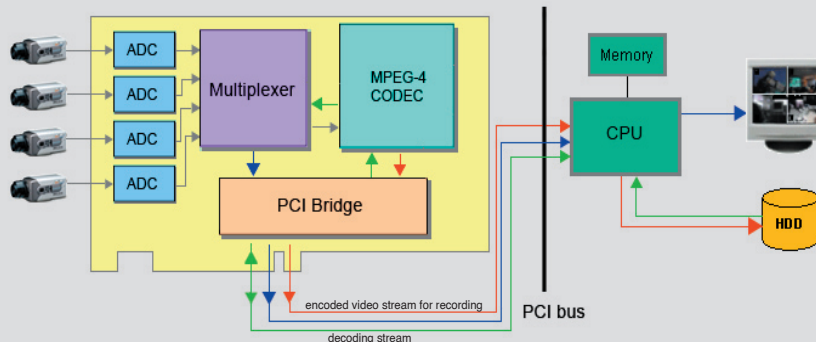
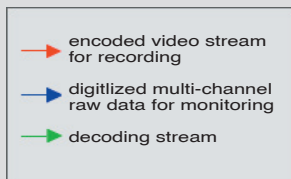


Audio Cable



VIOCARD-GPIO (optional)

### Encoding & Decoding Diagram



## Specification

### ◆ Interface

Video input	4 channels Composite video NTSC/PAL/SECAM
Video input type	BNC
Audio Input	4 channels
Audio input type	DB9 to 3.5mm phone jack audio cable
PCI interface	PCI Rev 2.1 compliance
Card ID	Dip-switch selectable

### ◆ Video Processing

Video Compression	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 & frame rate	NTSC: 720x480 @ 1~30fps    PAL: 720x576 @ 1~25fps 720x240 @ 1~60fps    720x288 @ 1~50fps 360x240 @ 1~120fps    360x288 @ 1~100fps

### ◆ Audio Processing

Audio Compression	Encoding Standard G.726 (ADPCM/PCM)
Sampling Rate	8K, 44.1 KHz and 48 KHz
Quantization	8 bit data depth

### ◆ 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 Bitrate Control	VBR, CBR for each channel

### ◆ System Requirement

System	x86 PC compatible computer
Graphic	DirectX compatible VGA card supporting YUV overlay mode

### ◆ Software Support

Device Driver	Driver for Windows 2000/ XP
SDK	Provide SDK and demo program Complete source code of demo program in C++

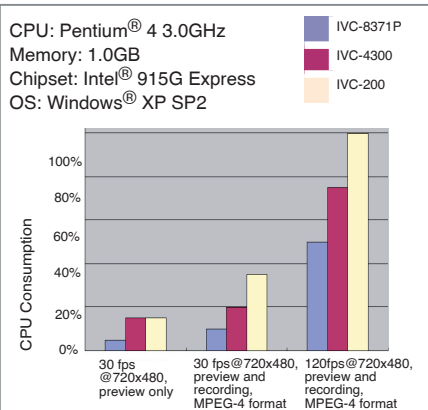
### ◆ Operation Environment

Dimension	119.91mm x 106.68mm
Operation Temperature	0~60° C (32~140° F), non-condensing
Power Consumption	7.5W, 1.5A@5V

## Experience the Power of Hardware Codec

IVC-8371P is equipped with a powerful video processing CODEC, which is capable of encoding and decoding multi-channel video simultaneously. It is proven that IVC-8371P demands 25 to 50% less system resource than software solutions. As the benefits for system developer, it is ideal for low-cost multi-channel video capturing system, or integrating the video capturing function easily into existing platform without hardware upgrading.

### Performance Test on Pentium® IV System



### Performance Test on Celeron® 400MHz System

Recording & decoding setting	CPU consumption	Memory Usage
4 ch, D1, 8fps, MPEG-4	56%	81.8MB
1 ch, D1, 30fps, MPEG-4	74%	81.8MB
4 ch, CIF, 30fps, MPEG-4	100%	82.3MB

CPU: Embedded ULV  
Intel® Celeron® 400MHz  
Memory: 512MB  
Chipset: VIA® VT8601T  
VGA: ATI RADEON 7000  
OS: Windows® XP SP2

### Performance Test on Celeron® M 600MHz System

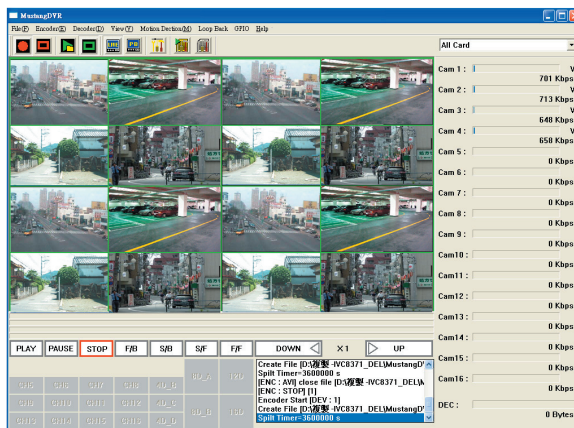
Recording & decoding setting	CPU consumption	Memory Usage
4 ch, D1, 8fps, MPEG-4	40%	88.4MB
1 ch, D1, 30fps, MPEG-4	50%	88.4M6
4 ch, CIF, 30fps, MPEG-4	83%	89.2MB

CPU: Intel® Celeron® M ULV  
600MHz, no L2 cache  
Memory: 512MB  
Chipset: Intel® 852GM  
OS: Windows® XP SP2

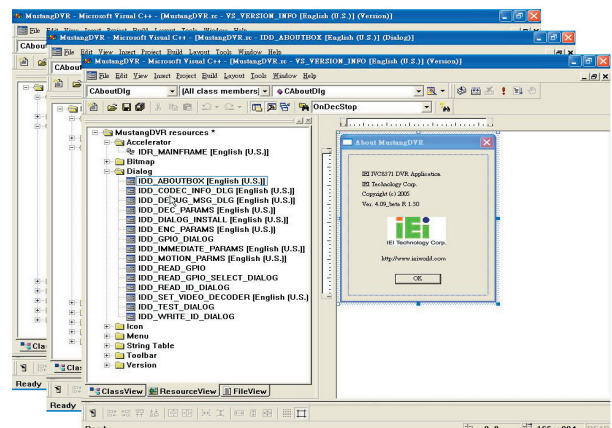
\* The VGA chipset must support DirectX and YUV overlay mode for normal display quality. Utility for YUV overlay support verification is available at <http://www.ieiworld.com>.

## Object-Oriented Components with Complete Source Code in C++

IVC-8371P offers a 16-channel DVR demo program with complete source code in package. For developers using Visual C++, this source code is presented in an object-oriented way with high readability. All the user interface and components can be changed and reused easily, helping system developers to speed up the development cycle. User manual and programming guideline are also available in package.



16 Channel Demo Program



Demo Program Source Code in C++

## Packing List

- 1 x IVC-8371P video capture card
- 1 x DB-9 to 3.5mm phone jack 4 channel audio cable (P/N: 32000-059000-RS)
- 1 x Utility CD
- 1 x QIG (quick installation guide)

## Ordering Information

Part No.	Description
IVC-8371P-R10	4 Channel MPEG-4 Hardware Video/Audio Capture Card
VIOCARD-GPIO	4 bit Digital Input and 4 Relays Output Module

