

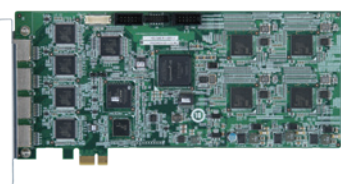
# Video Capture Solutions



IEI provides complete video/audio capture solutions to fulfill the demands of various applications. IEI video capture solution includes hardware compression video capture products and uncompressed video capture products. Hardware compression video capture products can encode full HD video in H.264 format or full HD/4K video in HEVC format in real time. Uncompressed video capture products can capture analog and digital video signal, and support resolution from SD to 4K video signal. These products include cards and boxes with a variety of interfaces such as PCIe, PCIe Mini and USB 3.1 Gen 1 (5Gb/s).

## Hardware Compression Video Capture Products

### ■ Full HD H.264 Compression Series



HDC-304E

## Uncompressed Video Capture Products

### ■ 4K



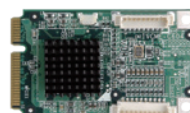
HSRC-301E

### ■ Full HD



HDB-301R

### ■ SD



IVCME-C604

## Video Capture Product Lines

Video Processing	Recording Format	Video Input Channel	Interface		
			PCIe	PCIe Mini	USB 3.1 Gen 1
Hardware Compression	H.264 1080p60	4ch HDMI	HDC-304E		
Software Compression	By software	4ch NTSC/PAL		IVCME-C604	
Uncompressed Video	By software	1ch HDMI	HSRC-301E		HDB-301R

# Hardware Compression Video Capture Solution

## ■ Low-power Consumption and High Video Quality

IEI hardware compression video capture cards offer an industry-leading low power consumption at full HD encoding with high picture quality. IEI HDC series products support frame processing of full HD video at 60p (1920x1080) to further improve picture quality and compress video in the H.264 format in real-time.

These products enable recording and streaming video with high quality in the application of video streaming, broadcasting, distance education, operating room and game recording.

## ■ Compatibility

IEI video capture products are compatible with most of the industrial motherboards and server motherboards. There are a lot of Linux versions in the world. IEI can help to provide correct drivers for you to use IEI video capture products. Furthermore, IEI can offer you the source code to develop your UI and application under specific agreement. IEI's video capture products are the perfect choice to build up your encoder system or solution.

## Applications: H.264 Video Encoder through HDC Capture Cards

### ■ Video on demand (VoD)

#### ◆ Distance Education/Training

An educational model is that 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 etc. Traffic media in vehicles or transportation is getting popular since wireless environment is getting mature.

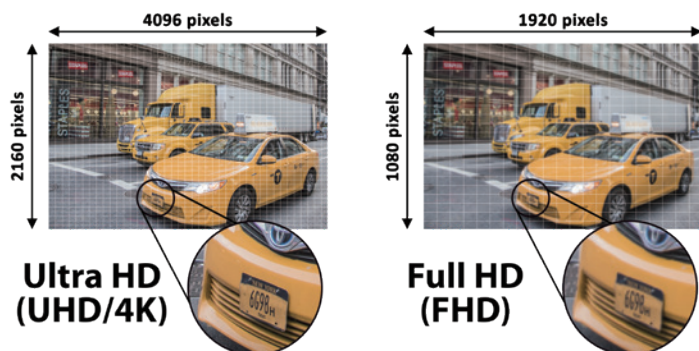




# Uncompressed 4K/HD/SD Video Capture Solution

4K is a new resolution standard designed for digital cinema and computer graphics. It has following advantages: higher image definition quality, more detailed picture, better fast-action and larger projection surface visibility. Recently, many camcorder manufacturers adopt 4K resolution to their recordings like Sony, Panasonic and so on.

IEI 4K uncompressed video capture card can import video from 4K camcorder into your media editing software on PC. It's the best and most efficient way to work 4K videos with your editing software.



Uncompressed 4K video capture card - HSRC-301E



Uncompressed Full HD video capture box - HDB-301R

## 4K Video Capture Application: Upgrade from SD to 4K Resolution

### ■ Post-production

IEI HSRC-301E is the 4K video capture and playback card, supporting editing and video software which is compatible with DirectShow. You can do the real-time workflows in editing software while connecting 4K camcorder to IEI 4K uncompressed video capture card. HSRC-301E is a perfect part of your workflow!



### ■ 4K Medical Video Identification

Medical devices, including microscopes, endoscopes, true HD cameras, vision microscopes etc, are all going in the direction of 4K Ultra HD resolution. IEI 4K uncompressed capture card will be the perfect choice of your 4K medical video systems.



### ■ 4K Video Surveillance

#### ◆ Improved quality of video surveillance

4K has several advantages in terms of video quality and resolution. More pixels added into the image allow the users to zoom into the picture without sacrificing image quality, therefore making this technology optimal for security. Covering a large warehouse or busy hallways would be easier with the added resolution. The IEI 4K uncompressed video capture card with smart surveillance software could be used in the applications like airports, shopping malls, mega stores and so on.

One 4K camera with IEI 4K uncompressed video capture card can help magnify and positively identify small details like a face, an unattended package or a car license plate.

