# **HDC-701EL Video Capture Card Solution**

The HDC-701EL video capture card supports full HD video compression using H.264 technology. It offers one-channel HDMI/DP/DVI-I/YPbPr input and one-channel HDMI bypass output. It supports multiple input types, and allows one-channel encode, PiP screen encode from two video sources, OSD screen encode, and cropping video for later encode. User can preview the video from HDMI bypass output during editing or encoding video.

#### Multiple input types supported by HDC-701EL:

- HDMI interface
- DP interface
- DVI-I interface

- VGA interface
- YPbPr interface which supports sync on green

### Video Scaler Functions

- It can convert a signal from a lower resolution to a higher resolution without affecting the video quality.
- It can convert a non-standard resolution (such as 1280\*960) to the resolution supported by the HDC-701EL.

#### ◆ Picture in Picture (PiP) Function ◆ OSD (on-screen display)

The video sources from two interfaces can be displayed on the same screen simultaneously and the PiP screen can be encoded by the HDC-701EL.



Information such as date, resolution etc. and the video source can be displayed on the same screen simultaneously and the OSD screen can be encoded by the HDC-701EL.



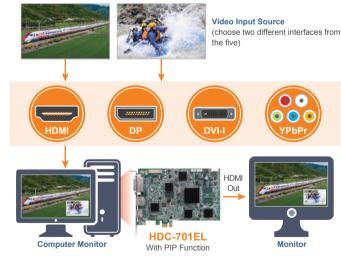
#### Cropping

Cuts the outer part of an image in order to improve the composition, emphasize the subject or change the ratio.



## **Applications**

#### **PIP Application**



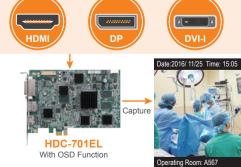
#### **Computer Monitor with HDC-701EL**

- 1. Can display two different sources together.
- 2. Allows you to adjust where to put the small video
- 3. Can display two videos and record the videos at the same time

#### OSD Application **Healthcare Solution**



Video Input Source (choose one inferface from the five)



With the OSD function, for example, the date, time, operating room's number and doctor's name can be displayed on the monitor when using in a surgery room. The surgery with the OSD information can be recorded by using the HDC-701EL capture card and the file can be saved for future reference. The scenario described above is just one of many possible scenarios in which the HDC-701EL is used to capture video with OSD information. In addition to that, IEI is capable to customize the OSD information to be displayed for other applications based on customer's needs

The raw data from two different signals can be displayed at the same time.

Monitor

# HDC-701EL

PCI Express Video/Audio Capture Card with One Channel HDMI/DP/DVI-I/ YPbPr Input and One Channel HDMI Output, 1920x1080@30p, and H.264 Hardware Encoder



















#### **Features**

- 1-channel HDMI/DP/DVI-I/YPbPr input with H.264 hardware compression and 1-channel HDMI output
- High quality video recording up to 1080p30
- HDMI output supports video preview up to 1080p60, so you can watch video while recording or editing
- Provides DirectShow filter
- Equipped with video scaler for PIP, OSD, cropping (optional)
- Windows/Linux OS supported

### **Specifications**

◆ Interface

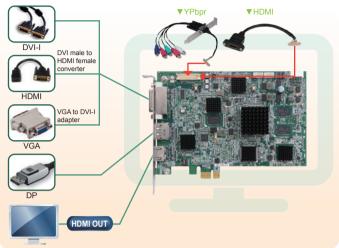
	Video input channel	1 channel
la mont	Video input type	HDMI/DP/DVI-I/YPbPr
Input	Audio input channel	1 channel
	Audio input type	HDMI (stereo video)
	Video output channel	1 channel (1080p 60)
Outmut	Video output type	HDMI
Output	Audio output channel	1 channel
	Audio output type	HDMI (stereo)
DC laterface		

I	PC Interface		
	Туре	PCle x1	
١	Video Processing		
	Hardware Encoder	H.264/AVC High Profile Level 4.1	
	Recording Datarate	Up to 30Mbps	
	Video Input Resolution	1920 x 1080 24p/25p/30p/50p/60p 1920 x 1080 60i/59.94i/50i 1280 x 800 60p 1280 x 720 50p/60p 800 x 600 60p 720 x 480 60p	1280 x 1024 30p 1280 x 768 60p 1024 x 768 60p 720 x 576 50p 640 x 480 60p
	Recording Formats	1920 x 1080 24p/25p/30p 1280 x 800 60p 1280 x 720 50p/60p 800 x 600 60p 720 x 480 60p	1280 x 1024 30p 1280 x 768 60p 1024 x 768 60p 720 x 576 50p 640 x 480 60p

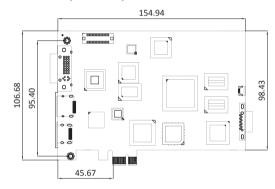
Audio Processing		
	Audio Sampling Frequencies	44.1k, 48k Hz
	Audio Compression	MPEG4-AAC
	Recording Datarate	128kbps

#### H.264 Hardware Encoder

### **Video Recording/Streaming**



### Dimensions (Unit: mm)



#### ◆ System Requirement

System

	Memory	2GB or more
•	Software Support	
	OS Support	Microsoft Windows 7/8.1/10 (32-bit & 64-bit) Linux: Ubuntu 16.04 (64-bit) (Kernel version: 4.4.0-21-generic)
	SDK	Windows: Provides SDK and demo program with sample source code Linux: Provides SDK and demo program with sample source code
•	Functionality	

Intel® Core™2 Duo 2.4GHz or above

	Scaling	Video scaling support, OSD, PIP, Cropping
•	Others	
	Dimensions	155 mm x 111 mm
	Operating Temperature	$0^{\circ}\text{C} \sim 60^{\circ}\text{C} (32^{\circ} \sim 140^{\circ}\text{F})$ , non-condensing
	Power Consumption	15W

#### Packing List

1 x HDC-701EL 1 x QIG

#### **Ordering Information**

Multiple Card Support 4 cards, 4 channels

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Part No.	Description	
HDC-701EL-R10	PCI Express video/audio capture card with one channel HDMI/DP/DVI-I/YPbPr input and one channel HDMI bypass output,1920x1080@30p, and H.264 hareware encoder	

## **Mouser Electronics**

**Authorized Distributor** 

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IEI:

HDC-701EL-R10