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



**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.

* HDMI interface ● DP interface ● DVI-I interface
* VGA interface ● YPbPr interface which supports sync on green

**Video Scaler Functions**

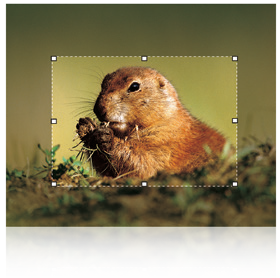
* It can convert a signal from a lower resolution to a higher resolution without affecting the video quality.
* It can convert a non-standard resolution (such as 1280\*960) to the resolution supported by the HDC-701EL.

 **Picture in Picture (PiP) Function**

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.

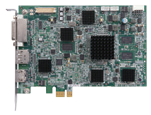
* **OSD (on-screen display)** Information such as date,resolution etc. and the video source can be displayed on the same screen simultaneously and the OSD screen can be encoded by the HDC-701EL.
* **Cropping**

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

**Applications**

 **PIP Application**  **OSD Application**

**Healthcare Solution**



**Video Input Source**

(choose two different interfaces from

the five)

HDMI

Out

**Computer Monitor**

**HDC-701EL**

With PIP Function

**Monitor**

**HDMI DP DVI-I YPbPr**

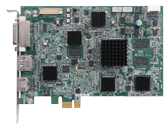
**Computer Monitor with HDC-701EL**

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.

## Monitor

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

Operating Room: A567 Doctor name: IEI



**Video Input Source**

(choose one inferface from the five)

Date:2016/ 11/25 Time: 15:05

Capture

**HDC-701EL**

With OSD Function

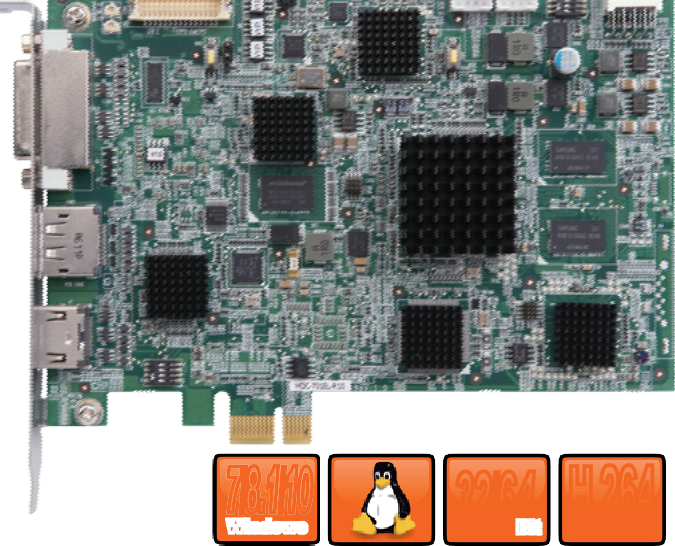
**HDMI DP DVI-I YPbPr**

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.

**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

***H.264 Hardware Encoder***



***7/8.1/10***

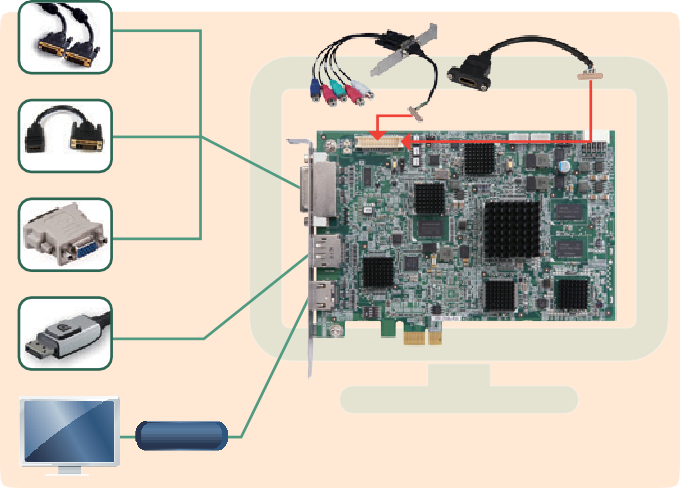
Windows

***32/64***Bit

H.264

MPEG-4/AVC

**Video Recording/Streaming**



▼YPbpr

▼HDMI

DVI-I

DVI male to HDMI female converter

HDMI

VGA to DVI-I

adapter

VGA

DP

**HDMI OUT**



DP

DVI-I

YPbPr

# *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

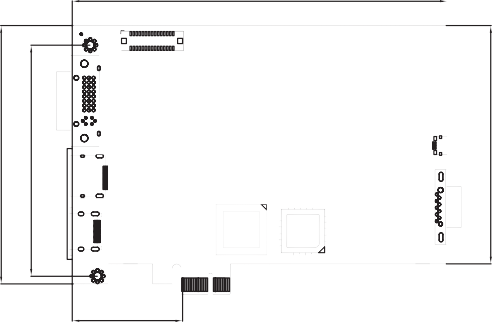
***Specifications***

#### Interface

|  |  |  |
| --- | --- | --- |
| Input | Video input channel | 1 channel |
| Video input type | HDMI/DP/DVI-I/YPbPr |
| Audio input channel | 1 channel |
| Audio input type | HDMI (stereo video) |
| Output | Video output channel | 1 channel (1080p 60) |
| Video output type | HDMI |
| Audio output channel | 1 channel |
| Audio output type | HDMI (stereo) |

***Dimensions (Unit: mm)***

#### System Requirement



45.67

106.68

95.40

154.94

98.43

|  |  |
| --- | --- |
| System | Intel® Core™2 Duo 2.4GHz or above |
| Memory | 2GB or more |

PC Interface Video Processing

|  |  |
| --- | --- |
| Type | PCIe x1 |

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

|  |  |
| --- | --- |
| Multiple Card Support | 4 cards, 4 channels |
| Scaling | Video scaling support, OSD, PIP, Cropping |

Others

|  |  |
| --- | --- |
| Dimensions | 155 mm x 111 mm |
| Operating Temperature | 0°C ~ 60°C (32° ~ 140°F), non-condensing |
| Power Consumption | 15W |

***Packing List***

|  |  |
| --- | --- |
| 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 1024 30p  1280 x 800 60p 1280 x 768 60p  1280 x 720 50p/60p 1024 x 768 60p  800 x 600 60p 720 x 576 50p  720 x 480 60p 640 x 480 60p |
| Recording Formats | 1920 x 1080 24p/25p/30p 1280 x 1024 30p  1280 x 800 60p 1280 x 768 60p  1280 x 720 50p/60p 1024 x 768 60p  800 x 600 60p 720 x 576 50p  720 x 480 60p 640 x 480 60p |

|  |
| --- |
| 1 x HDC-701EL |
| 1 x QIG |

Audio Processing

***Ordering Information***



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

|  |  |
| --- | --- |
| 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 |