

## CL311-M1

### 4K Multiple Inputs Low Profile Capture Card



#### Features

- Max. input resolution 3840 x 2160 30fps
- Max. capturing/recording 1920 x 1080 60fps
- HDMI/ DVI/ VGA/ Component/ Composite/ S-Video/ Audio LR interface
- PCI Express low profile form factor
- Motion adaptive de-interlacing technology
- WD1/960H Technology
- Application: Industrial inspection, surveillance, medical Imaging, education, etc.

#### Introduction

CL311-M1 is a low profile PCI Express capture card that supports 4K 30fps video input and full HD 60fps video capture. CL311-M1 can ingest and record HDMI/ DVI/ VGA/ Component/ Composite/ S-Video/ Audio LR sources for monitoring, archiving or analytics, offering more flexibility and possibilities.

CL311-M1 is best suited for industrial and commercial applications with diverse video input sources such as industrial inspection, surveillance, medical imaging, and education application.

#### Multiple Video Input Interfaces up to 4K Input Resolution

CL311-M1 is equipped with video interfaces for digital (HDMI / DVI) and analog (VGA/ Component/ Composite/ S-Video) connections. This means that CL311-M1 is compatible with most video devices and minimizes the effort of capturing sources from analog and digital interfaces.

#### Hardware Video Processing

CL311-M1 supports hardware up/ down scaling, color space conversion, de-interlacing and motion adaptive de-interlacing technology to smoothly playback videos with amazing clarity.

CL311-M1 has built-in hardware video processing that implements useful video enhancing features to significantly reduce CPU efforts. This leaves more computing resources for other utilization. In other words, this can help our clients minimize the cost of hardware platforms and development resources.

#### WD1/ 960H Technology for Composite Input

Integrate CL311-M1 to take advantage of the latest 960H technology featuring 960 x 480 resolution used by analog CCTV camera surveillance systems, compared to traditional 720 x480 input. The higher resolution offers sharper and more detailed imagery such as clearer object borders when multiple objects are in close proximities to one another.

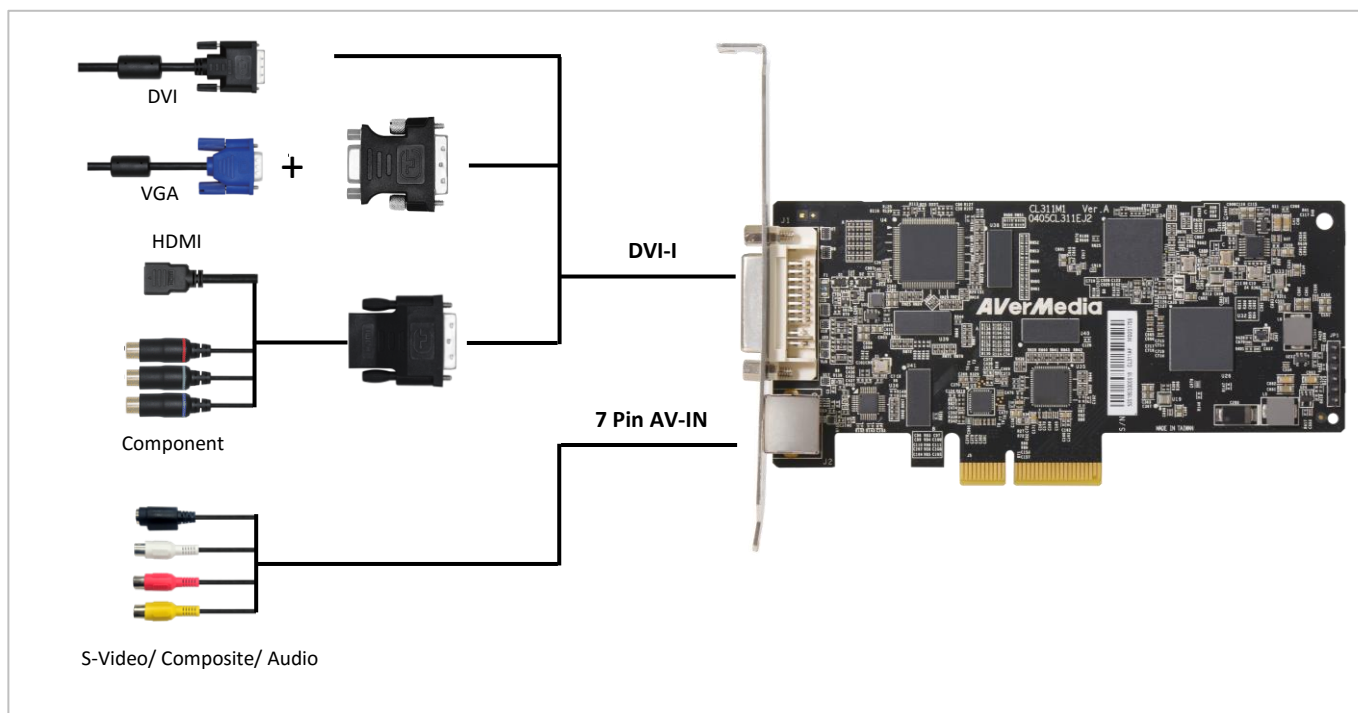
#### Versatile SDK

AVerMedia software development kit (SDK) is a set of development tools that allows software engineers to seamlessly integrate video capture modules into application specific systems. SDK Pro and SDK Premium are available upon request, they offer professional grade functionalities to better match each application's specific requirements.

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## 4K Multiple Inputs Low Profile Capture Card

### Connection Diagram



### Specifications

Host Interface	PCIe Gen2 x4
Audio Interface	HDMI, L/R
Audio Format	Embedded HDMI, PCM
Audio Sampling Rate	48/44.1/32 KHz
Connector Type	DVI-I for HDMI/ DVI/ VGA/ Component 7pin mini-DIN for S-Video/ Composite/ Audio
Input Interface	HDMI/ VGA/ DVI/ Component/ Composite/ S-Video/ Audio LR
Video Format	YUY2 (4:2:2), YVYU (4:2:2), UYVY (4:2:2)
Color Depth	8-bit
Channel No.	1 Ch
Max. Input Resolution	3840 x 2160 30fps
Max. Recording Resolution	1920 x 1080 60fps

Encoding Mode	Software Encoding
Multi-Card Support	Yes
Supported OS	Windows 7/ 8.1/ 10 (32/ 64 bits)*
Form Factor	PCIe Low Profile
Dimension (L x W)	138 x 68.78 mm
Power Consumption	5W
Operating Temperature	0°C ~ 50°C
Operating Humidity	5% - 80% Relative Humidity
Safety Certification	FCC / CE

All specifications are subject to change without prior notice.

\*Linux driver coming soon

### Ordering Information

- **CL311-M1:** PCIe Low Profile 4K 30fps Multi-interface Capture Card
- **SDK kits :**
  - SDK Basic
  - SDK Pro
  - SDK Premium add-on kits
- **Accessories:**
  - DVI-I to VGA connector
  - DVI-I to HDMI + component cable
  - 7pin AV-IN cable