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
- Applications: Industrial inspection, surveillance, medical Imaging, education, etc.

Introduction

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

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

Multiple Video Input Interfaces up to 4K Input Resolution
The 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
The CL311-M1 supports hardware up/down scaling, color space conversion, de-interlacing and the motion adaptive de-interlacing technology to playback videos smoothly with amazing clarity.

The CL311-M1 has built-in hardware video processing that implements useful video enhancing features to significantly reduce the 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
The CL-311-H works with any video format and resolution that you need. Even offers the WD1/960H resolution support of the analog CCTV camera in surveillance systems.
The user can make use of the CL311-H to view, capture or analyze the 960H composite video signals.
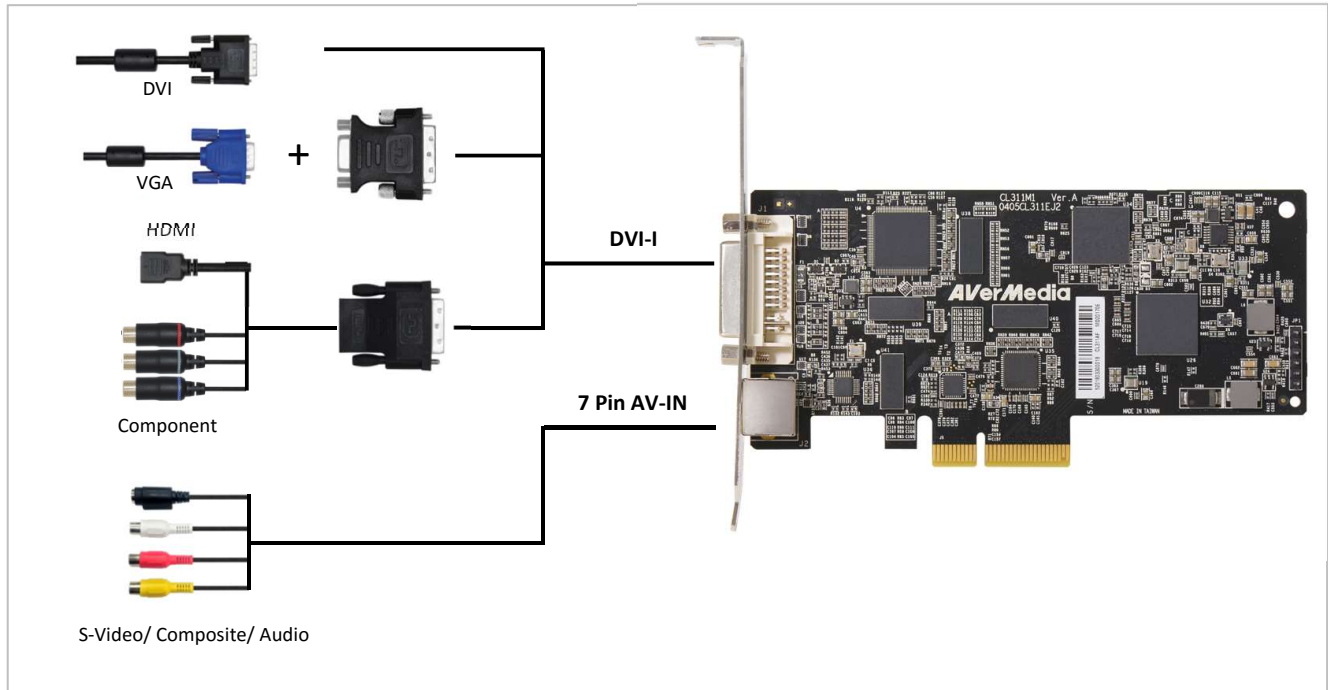
Versatile SDK

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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Connection Diagram

Specifications

Host Interface	PCIe Gen2 x4		Encoding Mode	Software Encoding
Audio Interface	HDMI, L/R		Multi-Card Support	Yes
Audio Format	Embedded HDMI, PCM		Supported OS	Windows 7/ 8.1/ 10 (32/ 64 bits)*
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		Form Factor	PCIe Low Profile
			Dimension (L x W)	138 x 68.78 mm
Input Interface	HDMI/ VGA/ DVI/ Component/ Composite/ S-Video/ Audio LR		Power Consumption	5W
			Operating Temperature	0°C ~ 65°C
Video Format	YUY2 (4:2:2), YVYU (4:2:2), UYVY (4:2:2)		Operating Humidity	5% - 80% Relative Humidity
			Safety Certification	FCC / CE
Color Depth	8-bit			
Channel No.	1 Ch			
Max. Input Resolution	3840 x 2160 30fps			
Max. Recording Resolution	1920 x 1080 60fps			

All specifications are subject to change without prior notice.

*Linux driver is 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

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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