

# AVerMedia

## CU511B

USB 3.0 Capture Box



### Features

- Multiple input sources:
  - 3G-SDI
  - Composite, L/R audio
  - S-video
  - VGA
  - DVI
- USB 3.0 support
- Resolution Adjustment Tool
- Low latency

### Introduction

AVerMedia CU511B is a USB 3.0 video capture card which brings a HD and SD capture. The CU511B can ingest and capture HDMI / DVI / VGA / SDI / CVBS / S-Video sources for monitoring, archiving or analyzing Full HD video content with more flexibilities and possibilities. It is endowed with full functions that required to performing HD video capture for industrial and commercial markets such as data recorder, medical imaging, machine vision or any industrial imaging. Windows driver support is included making the CU511B the best choice for all your capturing needs.

#### Complete Input Support

Accelerate video capture workflows by easily integrating the CU511B into any existing environment, HDMI, DVI, VGA, composite, audio input connectors (L/R), S-video, and 3G-SDI. The CU511B connects to any SD or HD interface to provide the ability to upload all existing media into a video library or selected storage server.

#### Lightning Fast Video Transfer with USB 3.0

The CU511B is a 8-bit HD/SD video capture device that supports USB 3.0. It enables the transfer of uncompressed video to a computer in stunning Full HD. Due to its high speed USB 3.0 interface the CU511B delivers its highest resolution at 1920 x 1200 video 60 fps of uncompressed video for professional quality playback on laptops and desktop screens.

#### Resolution Adjustment Tool

The Impressive cutting edge technology available in the CU511B is now revolutionizing the way that businesses perform the task of capturing video. The resolution adjustment tool supports output positioning and pixel rate selection of up to 1920 x 1200 60 fps and 162 MHz, taking the integration of the device into the workflow a step further. Specifically, the CU511B gives the capability to maximize the capturing process to include standard and customized sources all under one device.

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### Connection Diagram



### Specifications

<b>Host Interface</b>	USB 3.0
<b>Audio Interface</b>	HDMI / L R
<b>Audio Format</b>	LPCM / PCM
<b>Audio Sampling Rate</b>	Audio L/R: 48KHz, 16bit HDMI: 32KHz, 44.1KHz, 48KHz, 16bit
<b>Connector Type</b>	BNC / RCA / S-Video / VGA /DVI
<b>Input Interface</b>	HDMI
	DVI
	VGA
	SDI
	S-Video
<b>Video Format</b>	YUY2 (4:2:2) RGB24(Supported by SDK)
<b>Color Depth</b>	8-bit
<b>Channel No.</b>	1 ch
<b>Max. Input Resolution</b>	a.pixel clock $\leq$ 162 MHz b.Video width $\leq$ 1920 c.Video height $\leq$ 1200

<b>Max. Recording Resolution</b>	1920 x 1200 60fps
<b>Encoding Mode</b>	Software Encoding
<b>Supported OS</b>	Windows 7/8.1/10
<b>Dimension (L x W)</b>	217 x 140 mm
<b>Power Consumption</b>	6.5W
<b>Power requirements</b>	5V / 2A
<b>Operating Temperature</b>	0°C~60°C
<b>Operating Humidity</b>	0~80% Relative Humidity
<b>Safety Certification</b>	FCC / CE

### Versatile SDK

AVerMedia software development kit (SDK), a set of development tools that allows a software engineer to seamlessly integrate video capture modules into application specific systems. Available upon request are the SDK Basic, SDK Pro and to better match each application's specific requirements premium add-on kits.

### Ordering Information

- CU511B : USB 3.0 Capture Box
- Accessories
  - USB 3.0 cable
  - 5V / 2A power adapter
  - HDMI to DVI adapter
- SDK kits
  - SDK Basic
  - SDK Pro (Optional)
  - SDK Premium Add-on Kits (Optional)



## 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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