AVerMedia®

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DarkCrystal
HD Capture SDK II

Overview

The AVerMedia DarkCrystal HD Capture SDK II is packed with enough hardware to get just about any job done. Capable of not only capturing 1080p full HD content via an HDMI connection, a DVI to HDMI adapter also offers PC monitoring capability and ensures that digital content can be viewed in high definition. What's more, the added dongle cable can capture video from a comprehensive range of analog signals. Meanwhile, multi-card support allows for enterprise-level applications and increased efficiency. The DarkCrystal HD Capture SDK II couples this impressive list of hardware specs with DirectShow compatibility, providing users with the convenience of working with a broad range of popular professional video editing software.

The features and compatibility of the AVerMedia DarkCrystal HD Capture SDK II can provide specific benefits to different industries. For instance, the medical and manufacturing industry both require a high degree of precision and optical definition that 1080p high definition resolution provides. In business and education, users will greatly benefit from its ability to downgrade video size to maintain a stable, high quality connection vital to video conferencing or remote-teaching. And, professionals working with online video can benefit from the image overlay and picture-in-picture functions and even utilize Adobe Premier Pro CS6 with the exclusive plug-in that comes with DarkCrystal HD Capture SDK II.

*Capturing HD content with HDCP (High-Bandwidth Digital Protection) is not supported.

Features

- Capture HD Content up to 1080p from HDMI
- Grab Video from HDMI and Analog Connections
- Record On-screen Activities of Another PC
- Real-time HD H.264 Recording
- Fully DirectShow Compatible
- SDK Available

Applications

- Education
- Manufacturing
- Medical
- Business (Video Conference)
- Entertainment

Software Support

- Windows Media Encoder 9
- GraphEdit
- AMCap
- Adobe Premiere Pro CS6
- Adobe Flash Media Live Encoder 3
- Corel VideoStudio
- CyberLink PowerDirector
- CyberLink PowerProducer
- Real Producer (v13)
- VLC Media Player
- Sony Vegas Pro 10
- Image J

Specifications

Interface	PCI-Express
Input	**Digital:** HDMI 1.3 / HDCP 1.2 (1080p@25/30) **Analog:** Component (YPbPr support 1080i / 720p) / Composite / S-Video / Audio (L/R)
Video Resolution	**Composite & S-Video:** 640*480 / 704*576 / 720*240 / 720*288 / 720*480 / 720*576 **Component & HDMI:** 1080p@30 / 720*480i@30 / 720*480p@60 / 720*576i@25 / 720*576p@50 / 1280*720p@50 / 60 / 1920*1080i@25/30 **HDMI Only:** 640*480@60 / 1024*768@60 / 1280*800@60 / 1280*1024@50 / 1440*900@50 / 1600*1200@30 / 1680*1050@35 / 1920*1080p@24/25/30
Pixel Format	YUY2(4:2:2),YVYU(4:2:2),UYVY(4:2:2)
Color Adjustment	**Composite & S-Video:** Brightness, Contrast, Hue (NTSC only), Saturation **Component:** Brightness, Contrast **HDMI:** Not supported
Video Format	NTSC / PAL
Multi-Card Support	Yes (max = 8 pcs)
OS	Windows XP / Vista / 7 Windows Server 2000 / 2003 / 2008
Programming Language	VC, VB, Delphi, C#
SDK Framework	General DLL
Operating Environment	[Temperature] 0 to 65 ℃ [Humidity] 0% to 80% RHNC
Storage Environment	[Temperature] -30 to 65 ℃ [Humidity] 0% to 90% RHNC
Power Requirement	3.3V max 710mA
Dimensions (mm)	124.8(L)*68.78(W)*1.6(H)

Software Development Kit

The Software Development Kit (SDK) supports various programming languages including Visual Basic, Visual C++, and Delphi, and provides a powerful set of API (Application Programming Interface) in the DLL mode for users in order to use this card more conveniently and efficiently. Some major functions are included in the API, such as Capture and preview recording in the video window, De-interlacing, adding user-defined text, image and timestamps onto a recording, snapshots in BMP, JPG, AVI formats or sending screenshots back to user through the call-back function and support of multiple cards.

1.Advanced De-interlacing

Eliminating the visual defects of interlaced video.

Before   De-interlaced

2.Downscale Video Size

Decreasing the video size to reduce CPU usage or to boost the efficiency of broadcasting or streaming.

CPU Usage
24 %
Video Resolution: 1920 x 1080

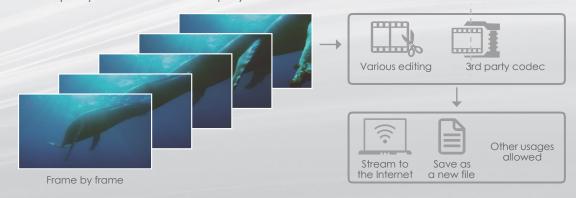CPU Usage
9 %
Video Resolution:160 x 128

3.Text/ Time/ Image Overlay

Adding graphical/textual overlays or timestamps onto the video enables logos or other images shown on the screen.

4.Capture to Buffer

Capturing video by frame for streaming to the Internet or saving as a new file.
Further 3rd party codec can be employed.

Frame by frame

Various editing   3rd party codec

Stream to   Save as   Other usages
the Internet   a new file   allowed

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AVerMedia's products are not only commit to RoHS/WEEE Directive, but conduct EMI and safety countermeasure to ensure consumers' health and environment protection. All products are available with lead-free finishes and flame retardant.

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