

Double the Power of HD Capture



DarkCrystal HD Capture SDK Duo (C129)

DarkCrystal HD Capture SDK Duo is a 1080p HD capture card which allows capture video from 2 HD sources and 2 SD sources simultaneously. It can be used for the most mission-critical applications while saving the precious PCI-E slot for other crucial needs. Moreover, it comes with a software development kit which has included the often used applications that helps developers or system Integrators to complete their tasks easily.

The exclusive hardware design of AVerMedia DarkCrystal HD Capture Duo facilitates any video professional to monitor, archive, verify, master or broadcast HD video content with more flexibilities and possibilities. It is designed to fulfill the high-density HD capture or encoding demands. With only one PCI-E slot, it is capable of preserve up to 4 video from analog or digital sources in SD or HD quality simultaneously. The dual HDMI ports get the uncompressed 1080p video from HD camcorders, set-top boxes or other video devices directly in 8-bit color precision. Meanwhile, the PCI-Express interface takes care of high-speed transmission without frame drop.

Besides the comprehensive video input selection, the VESA resolution support allows DarkCrystal HD Capture Duo meet various needs from different industries. Also, this four-in-one capture card is fully DirectShow compatible. That means it can work perfectly with your familiar video streaming or post-production software. To expand the scope of application, DarkCrystal HD Capture SDK Duo is shipped with Software Development Kit that includes often-used functions for web broadcasting, lab, healthcare and manufacturing. This factor also makes it an ideal solution for system integration. Even better, the accompanying Adobe Premiere Pro plug-in facilitates video capturing and processing on Adobe Premiere Pro CS4, CS5 or CS5.5.

*Capturing HDCP (HIGH-Bandwidth Digital Protection) is not supported.



The exclusive hardware design of DarkCrystal HD Capture SDK Duo allows **web broadcasters** to provide more HD video content. With the help of SDK, the online TV broadcasters can stream the crystal-like video quality in most bandwidth-efficient way. Text or image overlay can also be done in few clicks.



DarkCrystal HD Capture SDK Duo has comprehensive DirectShow compatibility to help **advertising or animate movie studio** to verify the visual design of each scene or create splendid HD trailers. Post-producers can even capture and edit films in the Adobe Premiere Pro.



DarkCrystal HD Capture SDK Duo has stable and delicate HD capture capability that can fulfill the most rigorous requirements of image resolution for **medical and industrial instrument manufacturers**. It is a must-have tool for manufacturing process verification with its high compatibility.

■ AVerMedia SDK Feature Example



Frame by frame



● 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.



● Text/ Time/ Image Overlay

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

● Advanced De-interlacing:

Eliminating the visual defects of interlaced video.

● Downscale Video Size:

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

● Upscale Video Size:

● Video Horizontal / Vertical Mirror

● Record in H.264, MPEG-2 or WMV Format:

Besides recording in the uncompressed AVI format, now users can have more choices for their video.

■ Compatible 3rd-party Software



Adobe Flash
Media Live Encoder



Microsoft
Expression Encoder



RealProducer



VLC Media Player

■ Specifications

Video Resolution	Composite & S-Video: 720 x 480i/p, 720 x 576i/p Component & HDMI: 720 x 480i/p, 720 x 576i/p, 1280 x 720p, 1920 x 1080i HDMI Only: 640 x 480, 800 x 600, 1024 x 768, 1152 x 864, 1280 x 768, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1440 x 900, 1600 x 1200, 1680 x 1050, 1920 x 1080p
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
Multi-Card Support	Yes (up to 8 pcs)
Programming Language	Visual Basic, Visual C++, Delphi, C#, VB.NET
SDK Framework	General DLL
Operating Environment	Temperature: 0 to 60 °C Humidity: 0 to 90% RHNC
Storage Environment	Temperature: -20 to 60 °C Humidity: 0 to 90% RHNC
Power Requirement	3.3V max 3A
Dimensions (mm)	138 (L) x 125.18 (W) x 1.57(H)

■ Input

- S-Video x 2
- Composite (RCA) x 2
- Component (YPbPr) x 2
- Audio (L/R) x 2
- HDMI x 2

■ System Requirements

- **For SD Video Capturing (MPEG-2 Format)**
 - Intel® Core™2 Duo Processor E8400 3.0GHz
 - AMD Athlon™ II X3 450 3.2GHz
- **For HD Video Capturing (MPEG-2 Format)**
 - Intel® Core™ i5 750 or AMD equivalent
- **For HD Video Capturing (H.264 Format)**
 - Intel® Core™ i5 3570 or AMD FX-8150 Eight-Core
- **VGA card with support for DirectX9.0c or above***
- **512 MB RAM****
- **Sound Card**
- **PCI-E 2.0 Slot**
- **Windows® 8/7/Vista™/XP (32/64-Bit)**
 - *Standalone graphics card is recommended for HD video capturing.
 - **2GB RAM is recommended for HD video capturing.