

Professional HD Capture Solution



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DarkCrystal HD Capture SDK II

DarkCrystal HD Capture SDK II is a HD 1080p capture card which supports DirectShow software and various programming languages. It comes with a software development kit which has included the often used application to help developers or system Integrators to complete their tasks easily. It is also shipped with AVer MediaCenter software for intuitive HD video preview and capture.

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 CS4/CS5 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.



With the help of AVerMedia 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.

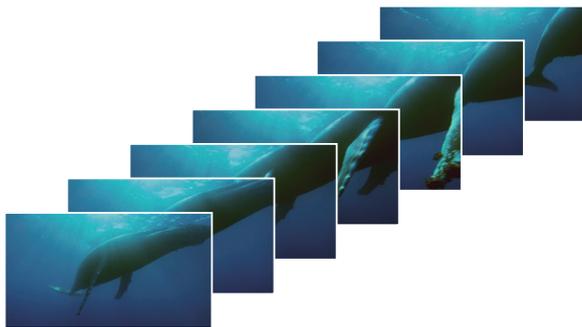


DarkCrystal HD Capture SDK II has comprehensive DirectShow compatibility to help PC or video game developers to verify the visual design of each scene or create splendid HD trailers. Developers can even capture and post-produce trailers in the Adobe Premiere Pro.



Its stable and delicate HD capture capability can fulfill the most rigorous requirements of medical and industrial instrument manufacturers. It is also a must-have tool for manufacturing process verification.

■ AVerMedia SDK Introduction



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

● Color Adjustment:

Adjusting contrast, brightness and hue of the video

● Downscale Video Size:

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

● De-interlace Filter:

Applying de-interlace filter in DirectShow-developed software to leverage the usage flexibility

■ Compatible 3rd-party Software



Adobe Premiere Pro
CS4 & CS5



Adobe Flash
Media Live Encoder



Microsoft
Expression Encoder



RealProducer



VLC Media Player

■ Specifications

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 Standard	NTSC & PAL
Multi-Card Support	Yes (up to 8 pcs)
Programming Language	Visual Basic, Visual C++, Delphi, C#
SDK Framework	General DLL
Operating Environment	Temperature: 0 to 40 °C Humidity: 0 to 80% RHNC
Storage Environment	Temperature: -30 to 65 °C Humidity: 0 to 90% RHNC
Power Requirement	3.3V max 710mA
Dimensions (mm)	124.8(L)*68.78(W)*1.6(H)

■ Input

- Composite (RCA)
- S-Video
- Component (YPbPr, 1080i)
- HDMI/ HDCP (1080@25p/30p)
- Analog Audio L/R

■ System Requirements

- For SD Video Capturing
 - Intel® Pentium® 4 3.0GHz
 - AMD Athlon™ 64 3200+
- For HD Video Capturing (MPEG-2 Format)
 - Intel® Core™2 Duo 2.4GHz
 - AMD Athlon™ 64x2 Dual Core 2.8GHz
- For HD Video Capturing (H.264 Format)
 - Intel® Core™ i5 750 or AMD equivalent
- For 3D Content Capturing
 - Intel® Core™2 Duo or AMD Athlon x2 or above
- VGA card with support for DirectX9.0c or above*
- 512 MB RAM**
- PCI-E Slot
- Sound Card
- Windows® 7/Vista™/XP (32/64-Bit)

*Standalone graphics card is recommended for HD video capturing.

** 2GB RAM is recommended for HD video capturing.