DarkCrystal HD Capture VGA (C199)

The DarkCrystal HD Capture VGA is a 1080p HD capture card which equips VGA input and output to connect with any equipment with VGA input. 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

The AVerMedia DarkCrystal HD Capture VGA guaranties the precise video capture, fast response and solid performance with its advanced hardware design and customizable software development kit. It supports a wide range of video resolutions to expand the capability and flexibility of capturing video from various video equipments of different industries. The high precision design makes it a best choice for medical imaging and digital signage.

The DarkCrystal HD Capture VGA equips both VGA input and output to record on-screen activities of another PC or VGA equipment. Its VGA input can capture video from many popular non-standard and standard definition sources; while its VGA output can pass through the video without the need of a VGA splitter.

The Direct Show compatibility enables the DarkCrystal HD Capture VGA natively work with various professional video editing software. You can capture or edit your own video directly on your familiar software without learning. Even better, AVerMedia has prepared you a comprehensive SDK, which can work with many programming languages, to help you develop the features you need.

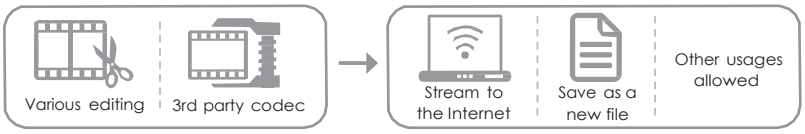
The DarkCrystal HD Capture VGA provides video capture from any equipment with VGA input. It can precisely preserve the most details from the CT scan or other medical imaging processes. **Hospitals or healthcare institutes** can deliver the data over the Internet and make an accurate diagnosis and treatment.

The **distant learning institutes** can also benefit from the DarkCrystal HD Capture VGA for conveying different teaching materials to their e-learners. It can be connected with document camera or computer to promise a more efficient and precise education quality.

The **digital signage** is a new information medium that is giving businesses better ways to communicate with customers. The DarkCrystal HD Capture VGA can combine multiple information contents for the server to transmit the information to the digital signage in a retail store, hospital or airport.

■ 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

- **Downscale Video Size:**

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

- **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	**640x480, 800x600, 1024x768, 1280x720, 1280x768, 1280x800, 1280x1024, 1360x768, 1440x900, 1680x1050, 1920x1080**
Pixel Format	YUY2(4:2:2), YVYU(4:2:2), UYVY(4:2:2)
Color Adjustment	Not Supported
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 65 ℃ **Humidity:** 0 to 80% RHNC
Storage Environment	**Temperature:** -30 to 65 ℃ **Humidity:** 0 to 90% RHNC
Power Requirement	3.3V max 3A
Dimensions (mm)	69 (L)*160 (W)*1.57(H)

■ Input

- VGA (D-sub)

■ Output

- VGA (D-sub; pass-through only)

■ System Requirements

- **For SD Video Capturing (MPEG-2 Format)**
  - -Intel® Core™2 Duo Processor E4300 1.8GHz
  - -AMD Athlon™ 64x2 Dual Core 2.0GHz
- **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 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.

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