

DarkCrystal HD Capture Mini-PCIe c353W

AVerMedia DarkCrystal HD Capture Mini-PCIe is a PCI Express Mini video capture card which is based on H.264 hardware compression which brings a HD capture while low CPU consumption solution to systems. With one adaptor daughter board, DarkCrystal HD Capture Mini-PCIe can ingest and capture HDMI and VGA input sources for monitoring, archiving or analyzing HD video content with more flexibilities and possibilities. Up to 60Mbps encoding capability, DarkCrystal HD Capture Mini-PCIe provides industry-leading HW encode performance that preserves the crystal-like video quality but maintains low CPU loading.

To expand the scope of application, DarkCrystal HD Capture Mini-PCIe supports mainstream programming languages and shipped with Software Development Kit that includes often-used functions such as de-interlace, video cropping, image/ video overlay, etc. It is endowed with full functions that required to performing HD video capture, and it can work stably in extreme environments under temperature from -40°C to 85°C. It is a ideally solution for industrial applications such as in-vehicle, medical imaging, video wall, industrial automation or any industrial imaging. DarkCrystal HD Capture Mini-PCIe commits to shorten the development schedule and provide integrators with complete solutions towards building their own applications.

Features

- HD video capture with HDMI/ VGA input
- H.264 HW encoding minicard with standard dimension
- Support VESA video input up to 1080p60
- Up to 60Mbps encoding capability to preserve high video quality with low CPU loading
- Mainstream programming languages supported
- SDK available for customer to create customized applications
- Low power consumption
- Supports extended operating temperature from -40 to 85°C

DarkCrystal HD Capture Mini-PCle

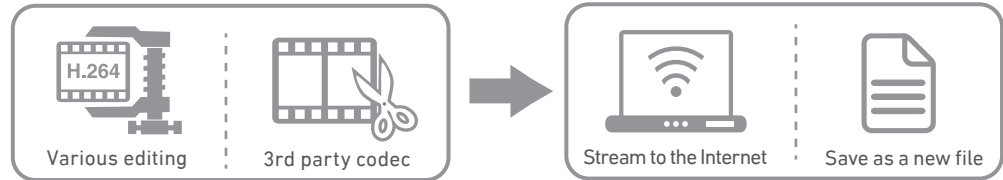
AVerMedia SDK Feature Example

• 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



• 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**
- **Noise Reduction**
- **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.

Specifications

Module Type	PCI Express Minicard
Dimension	50.8mm x 29.85mm
Video Input	HDMI VGA(D-Sub) DVI(HDMI Adaptor, optional)
Audio Input	Embedded HDMI
Resolution	Max. Input Resolution -1080p60 Max. Resolution Captured - 1080p30 VESA Resolution Supported
Captured Video Output	H.264 Transport Stream RAW video (YV12 4:2:0)
Color Adjustment	VGA: Brightness, Contrast, Hue (NTSC only), Saturation HDMI: not supported
Power Requirement	2.5W
Operating Environment	Temperature: -40 °C to 85 °C Humidity: 0 to 80% RHNC
Storage Environment	Temperature: -40 °C to 85 °C Humidity: 0 to 90% RHNC

System Requirements

- CPU
 - Intel® Core™ 2 Duo 2.4GHz
 - AMD Athlon™ 64x2 Dual Core 2.8GHz
 - Intel® Core™ i5-2500(4 cores/3.3GHz) or above is required for WMV format recording
- VGA card compatible with DirectX 9.0c or above
- Standalone graphics card is recommended for HD video capturing
- SSD is required for AVI format recording
 - Read: 200MB/s (or above)
 - Write: 200MB/s (or above)
 - System AHCI function needs to be activate
 - SATA III interface on motherboard is required
- 2GB RAM
- PCI-E x1 Gen1 Slot
- Sound Card
- Windows® 8/7 (32/64-Bit)/ Linux