DarkCrystal 110_CD110

Touchboards
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Actual product image may vary from image shown.

The DarkCrystal 110 features 1-channel HD/SD-SDI for high-end demand from professional applications. BNC connector secures stable and high frequency signals during transmission and the capture quality. Compatible with Microsoft DirectShow and various 3rd-party plug-ins, DarkCrystal 110 provides greater convenience and a broad range of professional video editing software, including Sony Vegas, Adobe Premier Pro, ImageJ, and Adobe Flash Media Live Encoder, etc. Moreover, AVerMedia SDK provides demo AP function to enhance better feasibility for application developers.

- HD-projection capture and professional video recording
- HD surveillance system feeds in CCTV
- TV Studios or grandeur video wall with multi-screens

Features

- 1-CH HD/SD-SDI video signal input
- 1080p30 HD capture resolution
- Fit in PCIe Gen1 slot
- Comprehensive AVerMedia SDK and Capture Studio management tool included
- Compatible with DirectShow, AMCap, Windows Media Encoder, Adobe Flash Media Live Encoder, etc.

Specifications

Video Input	HD-SDI/SD-SDI (BNC)
Audio Input	Embedded SDI Audio (2-ch Embedded Audio per SDI input)
Video Resolution[1]	HD-SDI: 1280x720@50p/59.94p/60p 1920x1080@50i/60i/23.98p/24p/25p/ 29.97p/30p/25PsF/29.97PsF/30PsF SD-SDI: 720x480@60i 720x576@50i
Pixel Format	YUY2(4:2:2),YVYU(4:2:2),UYVY(4:2:2)
SDI Color Precision	Input: 10-bit, Output: 8-bit
Audio Sampling	48KHz at 24-bit
PC Interface	PCIe Gen 1
Operating Environment	Temperature: 0 to 70°C Humidity: 10 to 90% RHNC
Storage Environment	Temperature: -30 to 85°C Humidity: 10 to 90% RHNC
Dimensions (mm)	70(L)*68.78(W)*14.4(H)
Power Requirement	3.3V max 1400mA
SDI Cable Length (1694A)	HD: 200M, SD: 350m (Typical)

[1] The resolution of the output signal must be either the same as the input signal or downscaled to match SD resolution (lower than 720x576).

System Requirements

- **For SD Video Capturing (MPEG-2 Format)**
  - Intel® Core™ i3 CPU 530@ 2.93GHz or above
  - 2 Duo Processor E4300 1.8GHz
  - AMD Athlon™64x2 Dual Core 2.0 GHz
- **For HD Video Capturing (MPEG-2 Format)**
  - Intel® Core™2 Duo 2.4 GHz
  - AMD Athlon™ 64x2 Dual Core 2.8 GHz
- **For HD Video Capturing (H.264 Format)**
  - Intel® Core™i5 750 or AMD equivalent
- **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
  - Dual core CPU (with main processor of frequency 3.40GHz or above) plus memory of dual channel architecture
- **VGA card with support forDirectX9.0c or above***
- **1GB RAM or above ***
- **PCI-E Slot**
- **Sound Card**
- **Windows® 8.1/7(32/64-Bit)**

*Standalone graphics card is recommended for HD video capturing.

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