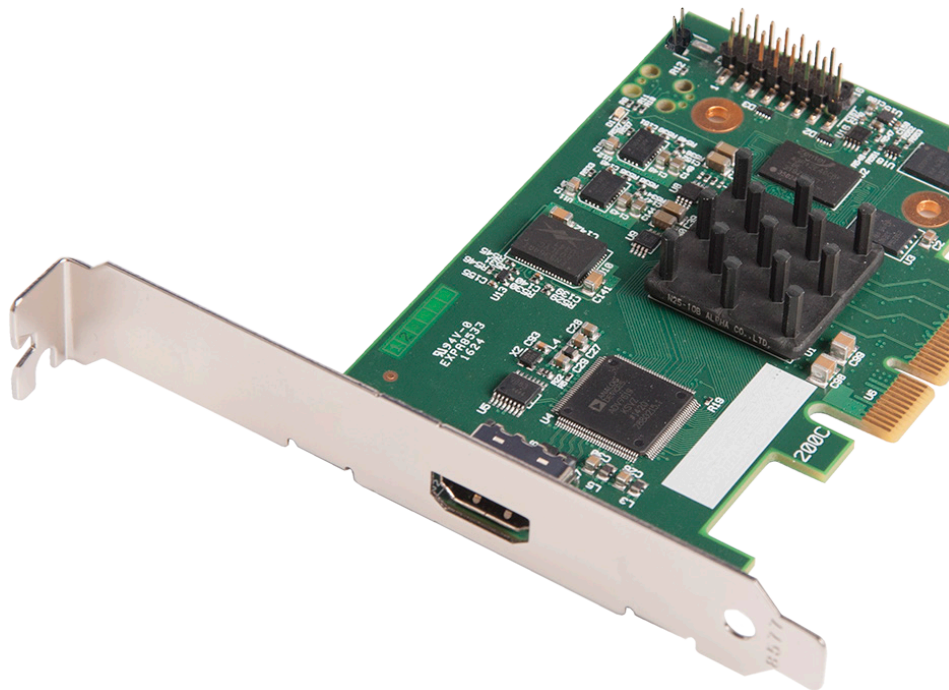


XtremeLC-HD

Version V1.2



SINGLE CHANNEL "LiveStream:Capture" CARD

Professional Digital Audio and Video Capture Card

+ HIGH PERFORMANCE CARD

Discreet video capture is now the mainstay of many small form factor appliances being used in markets such as lecture capture, distance learning and medical environments. The XtremeLC-HD provides HDMI capture for use within such applications. EMS's LiveStream: Capture architecture allows captured video to be processed

and delivered in real time to a processor or graphics card. The XtremeLC-HD supports on board colour space conversion and scaling, providing the ability to efficiently transfer the video signal in a suitable format for rendering or encoding applications. The XtremeLC-HD natively supports 32, 24, 16 and 12 bit YUV and RGB formats.

+ FEATURES

- Single HDMI capture channel
- Up to 297 Mpixel/s capturing up to 3840x2160p @ 30 fps
- 800 MB/s DMA bandwidth
- High performance up and down scaling
- Colour space conversion to support output formats
- PCI Express Gen 1 x4 low profile
- EMS unified Windows® and Linux® driver support

Professional Digital Audio and Video Capture Card

+ MULTI-APPLICATION CAPTURE

The XtremeLC-HD card has been designed for use within application models such as:

- Medical environments
- Simulation systems
- Live events
- PC and gaming console capture
- Lecture and presentation capture
- Real time streaming

It is also possible to put more than a single card into a system for multiple capture channels.

Due to the nature of the LiveStream:Capture architecture, the XtremeLC-HD is not supported for wall controller applications that depend on EMS's MultiStream technology.

+ VIDEO STREAMING

Built upon the Microsoft AV Stream framework, XtremeLC-HD inputs can be accessed and enumerated by any DirectShow or Media Foundation supported application. A Video for Linux (V4L) driver package is also available for download.

Tested applications include:

- Microsoft Media Encoder
- VLC
- Telestream WireCast
- vMix
- Opencast Matterhorn
- VidBlaster
- OBS Project
- Adobe Flash Media Encoder
- Dataton Watchout

+ MODELS AVAILABLE

Order Code: XtremeLC-HD
Single Channel "LiveStream:Capture" Card

All products are shipped with the latest software available, unless stated otherwise.

+ SPECIFICATION

Board Format	PCIe Gen 1 x4 plug-in card
Dimensions	103mm x 64mm (l x h)
Connector	HDMI
Pixel Rate	297Mpixel/s
Max Capture Resolution	3840x2160p @ 30Hz
Transfer Rate	800 MB/s maximum DMA transfer rate
Hardware Colour Space Conversion	32 / 24 / 16bit RGB (4:4:4) 16bit YUV (4:2:2) 12bit YUV, NV12, YV12 (4:2:0)
Audio Support	Stereo pair PCM audio via HDMI at 16 bits in depth, sampling options include 44.1/48/96 kHz
Low Latency	LiveStream Capture Single frame time plus DMA transfer of final line
Operating System Support	Linux, Windows® XP, Windows Vista, Windows Server 2003, Windows Server 2008, Windows 7, Windows 8/8.1 and Windows 10
Power requirements	Max current at 1A at 3.3V Max power ≈ 3.3W
Operating Temp	0 to 35 deg C / 32 to 96 deg F
Storage Temp	-20 to 70 deg C (-4 to 158 deg F)
Relative Humidity	5% to 90% non-condensing
Warranty	3 years

We are continuously developing the technology used within our product ranges delivering outstanding innovative solutions, therefore the specification may change from time to time.



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