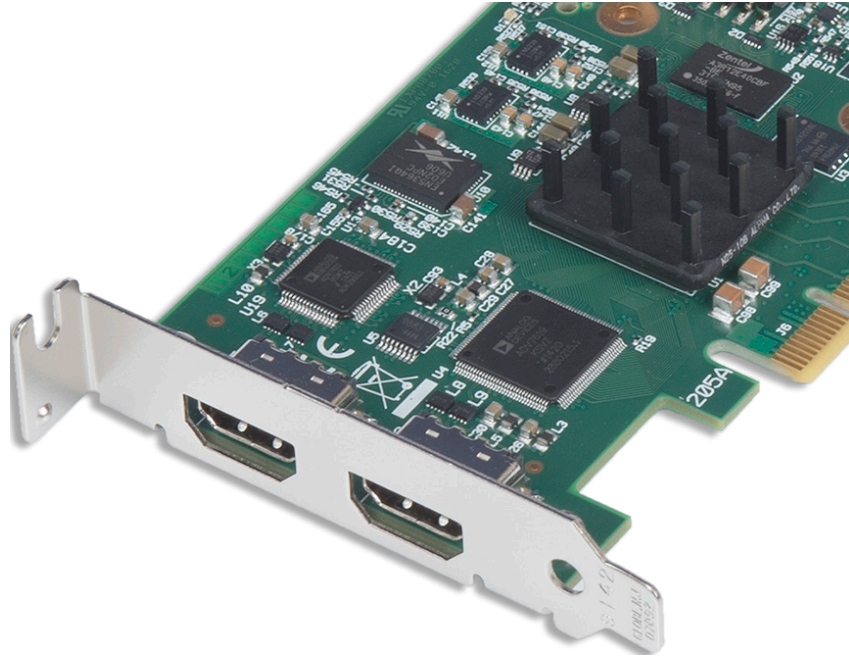


# XtremeLC-HD2

Version V1.1



## DUAL CHANNEL “LiveStream:Capture” CARD

Professional Digital Audio and Video Capture Card

### + HIGH PERFORMANCE CARD

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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. EMS's XtremeLC-HD2 provides dual channel, high definition 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-HD2 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-HD2 natively supports 32, 24, 16 and 12 bit YUV and RGB formats

### + FEATURES

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- Capture channel 1
  - HDMI capture channel
  - 297 Mpixel/s maximum TMDS clock frequency
  - 3840x2160p @ 30 Hz 4:4:4
- Capture channel 2
  - HDMI capture channel
  - 165 MHz maximum TMDS clock frequency
  - 1920x1080p @ 60 Hz 4:4:4
- 1.6 GB/s total DMA bandwidth
- High performance up and down scaling
- Colour space conversion to supported output formats
- PCI Express Gen 2 x4 low profile
- EMS unified Windows® and Linux® driver support

## Professional Digital Audio and Video Capture Card

### + MULTI-APPLICATION CAPTURE

The XtremeLC-HD2 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-HD2 is not supported for wall controller applications that depend on EMS's MultiStream technology.

### + VIDEO STREAMING

Built upon the Microsoft AV Stream framework, XtremeLC-HD2 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-HD2  
Dual Channel "LiveStream:Capture" Card

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

### + SPECIFICATION

Board Format	PCIe Gen 2 x4 plug-in card
Dimensions	103mm x 64mm (l x h)
Connectors	2 x HDMI
Pixel Rate	Channel 1 - 297Mpixel/s Channel 2 - 165Mpixel/s
Max Capture Resolution	Channel 1 3840x2160p @ 30Hz Channel 2 1920x1080p @ 60Hz
Transfer Rate	1.6 GB/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 each HDMI channel 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 1.5A at 3.3V Max power ≈ 5W
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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