EMS XtremeRGB-Ex8

PCI-E, Eight Channel Composite or S-Video Capture Card with Streaming Drivers
8x PAL or NTSC video formats or 8x S-video

The XtremeRGB-Ex8 is an eight channel PCIe capture card and can capture up to 8x 720x576x16bit from eight simultaneous capture channels for real time video overlays.

- **8 channel Simultaneous Composite/S-Video capture cchannels.**
- **4 Lane PCIe bus with a maximum data rate of 480MB/sec**
- **Capture support for 8x PAL or NTSC video formats or 8x S-video**
- **Single field or de-interlacing.**
- **Automatic video mode detection and no signal detection**
- **Adjustments for colour, brightness and contrast, saturation and hue**
- **Up to 16 cards per system for 128 video channels**
- **Using the XtremeVision graphics card, video windows can be positioned and sized anywhere on the wall with no restrictions.**
- **Video pass-through connector (16 inputs to 16 outputs)**
- **Two cropping and scaling windows per capture channel**
- **Data Transfer at 480MB/s**
- **Supports up to 16 windows with any mix of input channels**
- **WDM Streaming driver support**
- **SDK available for OEM customers**
- **OS Support: Windows® XP Professional (x86 and x64), Windows® Server 2003 (x86 and x64), Windows Vista® (x86 and x64), Windows® Server 2008 (x86 and x64) and Windows 7**

Application Areas
Broadcast, Adverising Monitering Applications
Traffic and Surveillance Cameras
Digital Signage
CCTV Security & Surveillance
Machine Vision
Video Streaming & Conferencing Applications
and much more ...

Cable supplied BNC16 x2

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Connections
The XtremeRGB-Ex8 has two 26 Way D- type connectors.   Either connector can be used to input video signals using a 16-way splitter cable (provided).   The splitter cable consists of 16 BNC sockets numbered 1-16, connected to a 26-way D connector.   To connect a video input, connect the Composite/S-Video Luma and Chroma as indicated in the table below.

Video Pass-through
By connecting a second BNC16 Input Cable (available from EMS) to the second XtremeRGB-Ex8 connector it is possible to daisy-chain the video signals to another device.   In this case the video will normally be terminated on the downstream device; therefore, the inbuilt terminations on the XtremeRGB-Ex8 should be disabled by removing the on-board links.

Installing Multiple Cards
Up to 16 cards can be installed in a system providing a maximum of 128 capture channels.

Software Included
XtremeRGB application, to auto-detect, capture/display and record (into our own format)
VigiControl - (demo version) presents a representational window of the entire display wall showing position and size of video windows
Software Development Kit with example application code
DirectX SDK for Directshow application development (downloadable for Microsoft).

Streaming Support
DirectShow drivers for WDM Streaming driver supports the following applications, to encode, record and/or stream (Broadcast) video over networks or the Internet:

- Microsoft Media Encoder®
- VLC
- StreamPix
- Arkaos
- Adobe Flash Encoder
- VidBlaster
- Any other DirectShow encoding software - please see the software page

Specifications

Card Format :	4 lane PCI express 110x170mm (approx)
Connectors:	Two 26 Way D Connectors
Maximum Capture Resolution	8x 720x576x16bit
Frame Buffer MemoryFrame Buffer Memory	64MB (updated in real time).
Supported Video Formats:	PAL, NTSC and SECAM

Operating System Support:	Windows® XP Professional (x86 and x64), Windows® Server 2003 (x86 andx64), Windows Vista® (x86 and x64), Windows® Server 2008 (x86 and x64) and Windows 7
Max Number of Cards per System	16 (128 capture channels)
Max current at +3.3V:	0.25A
Max current at +12V:	0.6A
Operating Temperature:	0 to 35 deg C
Storage Temperature:	-20 to 70 deg C
Relative Humidity:	5% to 90% non-condensing
MTBF:	100,000hrs

For details on how to purchase the XtremeRGB products contact our sales department
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