

# XtremeRGB-Ex8

8 channel SD video  
capture card



## DESCRIPTION

The XtremeRGB-Ex8 is a eight channel PCI express video capture card. The card supports PAL, NTSC and SECAM in both composite and S-video input formats. XtremeRGB-Ex8 supports deinterlaced video capture and display at 25/30 frames/sec for real-time video overlays.

The XtremeRGB-Ex8, a stand alone PCIe x4 plug in card, delivers extreme performance with 480MB/s transfer bus bandwidth.

This industry beating performance makes the XtremeRGB-Ex8 ideal for a wide range of applications including:

- Multi-display presentation software: Recommended by industry leaders Dataton WATCHOUT™
- Digital signage
- Machine vision: Acquire high resolution camera outputs
- Voyage data recorders: Capture radar images
- Simulation/defence: Acquire high resolution video and simulation for command and control

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## FEATURES

- Four Lane PCI express video capture card
- Eight simultaneous capture channels
- Support for any mix of NTSC, PAL and SECAM
- Eight composite/S-Video video inputs
- 32MB on board frame buffer
- On board processor for real time mode and sync detection
- When used with the EMS range of graphics adapters, the CPU load is negligible even if the image is being upscaled to a video wall, resulting in real time performance
- Auto video mode and no-signal detection
- Adjustments for colour, brightness and contrast
- Daisy chain input to output with selectable termination
- High performance DMA with scatter gather
- Data transfer at 480MB/s
- Dynamic input source selection
- Supports up to 16 windows with any mix of input channels
- Administrator mode
- SDK available for OEM customers

## VIDEO STREAMING

DirectShow drivers for WDM streaming driver supports the following applications, to encode, record and stream video over networks or the Internet:

- Microsoft Media Encoder®
- VLC
- StreamPix
- VirtualDub
- Adobe Flash Encoder
- AMCap
- Any other DirectShow encoding software

For streaming applications, the XtremeRGB-Ex8 can be used with Windows Media Encoder to compress and stream captured video. To replay the video, use Windows® Media Player.

Any application compatible with Windows DirectShow technology can use the XtremeRGB-Ex8 due to its built-in WDM support.

## SOFTWARE

The XtremeRGB-Ex8 is supplied with a powerful software application for configuring the timing and format of the input sources and displaying the data.

Simply connect your video source into the card, run the XtremeRGB-Ex8 application to automatically detect the video source format and display the captured video in a window on your desktop.

## WALL CONTROL SOFTWARE

The XtremeRGB-Ex8 card is supplied with a free version of Wall Control without the advanced features. Wall Control presents a representational window of the entire display wall showing position and size of video windows.

EMS Wall Control software enables you to configure your multi-screen display, launch video overlays and create a wall layout configuration. With the full version it is possible to save layouts and recall them for future use and also operate Wall Control on a remote PC via a network connection.

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## COMPATIBILITY

XtremeRGB-Ex8 is supported by the following operating systems: Linux, Windows® XP, Windows Vista, Windows Server 2003, Windows Server 2008, Windows 7, Windows 8/8.1 and Windows 10.

EMS SDK is included for software developers.

## SPECIFICATION

### BOARD FORMAT

PCI-e x4 plug-in card, 110mm x 170mm  
PCI-e bus master with scatter gather DMA  
providing maximum data rate of 480MB/s

### CONNECTORS

Two D connectors for SD inputs

### MAXIMUM CAPTURE RESOLUTION

8 x 720 x 576 x 16bit

### FRAME BUFFER MEMORY

32 MB

### VIDEO FORMAT OPTIONS

PAL, NTSC, SECAM or S-Video

### POWER REQUIREMENTS

Max current at +3.3V – 0.45A  
Max current at +12V – 0.85A  
Max power – 12W

### OPERATING TEMPERATURE

0 °C to 35 °C / 32 °F to 96 °F

### STORAGE TEMPERATURE

-20 °C to 70 °C / -4 °F to 158 °F

### RELATIVE HUMIDITY

5% to 90% non-condensing

### WARRANTY

3 years

## MODELS AVAILABLE

Order Code: XtremeRGB-Ex8  
8 Channel SD capture card PCIe

*All products are shipped with the latest software available, unless stated otherwise. Special requirements may be organised by contacting our Sales team.*

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