

XtremelImage-4K

Four channel graphics card
with HDMI 2.0 outputs



FULL 4K HIGH BANDWIDTH GRAPHICS CARD

Designed for professional, multi-screen and video wall installations, the XtremelImage-4K is a very powerful graphics card, enabling scalable solutions, that delivers full 4K60 4:4:4 content over four HDMI 2.0 outputs.

Fully integrated with EMS's graphical setup wizard, the XtremelImage-4K is easy to configure for different combinations of monitors, projectors, or LED controllers. Output resolution, rotation and wall layout are all easily configured using the intuitive graphical interface in a matter of minutes.

When combined with EMS 4K-capable capture cards, the XtremelImage-4K enables the VSN range of video wall controllers to deliver full 4K60 video from source to screen with full support for HDCP 2.2.

For video wall applications, each 4K output from the XtremelImage-4K can be used to drive four HD outputs using screen loop-through (if supported by the screens) or a multi-display controller such as the EMS Fx4. This approach delivers up to 16 HD outputs from a single XtremelImage-4K card, providing a simpler, more cost-effective overall solution.

FEATURES

- Four 4K60 4:4:4 HDMI 2.0 outputs
- Enables full 4K60 capture and display in EMS VSN controllers
- HDCP 2.2 supported when using EMS capture cards
- Support for up to 6 cards in a single system with a total output of 199 Megapixels
- Fully compatible with EMS's Display Driver Configuration Tool (DDCT) and Diagnostic Suite



Engineering the world's best visual solutions

Four channel graphics card with HDMI 2.0 outputs

SOFTWARE

Drivers

EMS's multi-screen display driver is engineered specifically for use with Windows 10 LTSC and Windows Server 2019. The display driver unifies multiple XtremelImage-4K cards to present a single desktop canvas to the Windows operating system, allowing each video wall to display hundreds of output windows with full support for picture-in-picture and overlaps. The multi-screen driver supports a maximum of 24 outputs for the XtremelImage-4K (six cards).

Display Driver Configuration Tool

Our unique graphical setup tool allows users to easily configure multiple outputs to create complex video wall layouts in a matter of minutes.

The tool guides users through the setup process using a simple step-by-step wizard, enabling screen dimensions, resolution and position to be configured with ease. The built-in database of monitors contains hundreds of models from various manufacturers, allowing supported resolutions and bezel measurements to be easily configured for each monitor.

Control Software

The XtremelImage-4K is fully compatible with EMS's WallControl 10 software, which provides users with the interface required to quickly and effectively manage content that can include video captures, IP streams and local applications. Users are able to place any input source on any part of the Video Wall using a simple drag and drop interface. Precise positioning of each piece of content can be achieved through the mouse and keyboard, or via the revolutionary template tool.

COMPATIBILITY

Windows 10 LTSC and Windows Server 2019 operating systems.

MODELS AVAILABLE

Order Code: XtremelImage-4K
4 channel HDMI PCIe graphics card.

SPECIFICATION

CARD FORMAT

PCI Express x16 Mechanical, x8 Electrical (Gen. 3)

CARD SIZE

110mm x 177mm (incl heat sink)

MAX OUTPUT RESOLUTION

3840 x 2160 at 60Hz (max 594 MP/s)
per channel

MAX EFFECTIVE TRANSFER RATE

5.5 GB/s sustained from EMS Vision capture cards.

MAX COLOUR DEPTH

8-bit per component

MAX CARDS PER SYSTEM

6 (24 display channels)

GRAPHIC CARD MEMORY

8GB

MAX CURRENT AT +3.3V

0.6A

MAX CURRENT AT +12V

4.0A

MAX THERMAL POWER

50W

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

MTBF

Over 80,000 hours

The XtremelImage-4K can only be used in systems with PCI Express spread spectrum clock (SSC) disabled and is not compatible with other EMS graphics cards.

All XtremelImage-4K outputs should use premium HDMI certified cables to ensure maximum performance. Cable connector width must be less than 20.5mm.

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

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