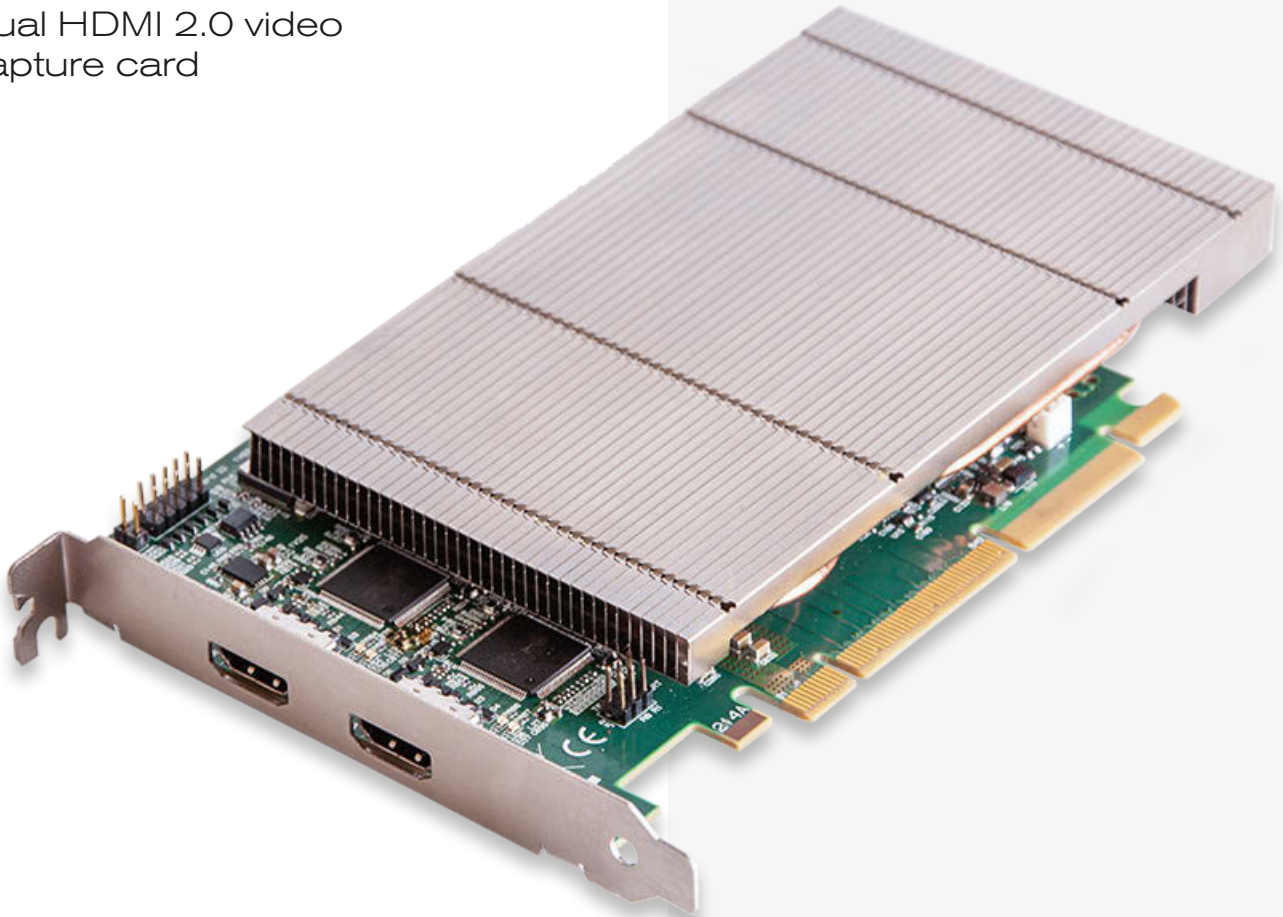# XtremeDV-UHD2

Dual HDMI 2.0 video
capture card

DESCRIPTION

AV integrators demand the highest resolution video offering both detail and colour accuracy when creating the most stunning visual displays. From command and control rooms to reception areas, collaboration environments and digital signage applications, the XtremeDV-UHD2 ensures the very best quality and ultimate customer satisfaction.

Providing two HDMI 2.0 capture channels with HDCP 2.2 at 4K60p with full 4:4:4 colour sampling, the XtremeDV-UHD2 compliments our hugely successful XtremeDV capture card family and offers unparalleled performance in frame grabber technology.

FEATURES

- Two independent HDMI 2.0 capture channels
- Eight lane PCIe Gen.3 interface, Net 6 GB/s total capture bandwidth
- 2 GB Frame Buffer Memory
- Full 10-bit processing pipeline
- Up to 8K by 8K resolutions
- Built for the highest density systems supporting multiple inputs
- Full support of the Vision Performance Feature set
- EMS unified Windows® and Linux® driver

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https://pyramidimaging.com

Pyramid Imaging

Engineering the **world's best** visual solutions

EMS Imaging
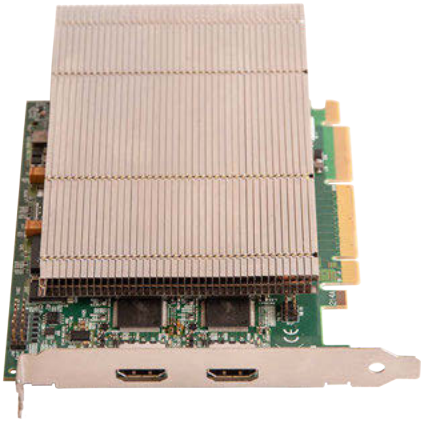Advanced Imaging Technology

Advanced capture technology

XTREMEDV PERFORMANCE FEATURES

The XtremeDV-UHD2 is supported by the EMS Vision Performance Driver. Features include: EMS LiveStream for a single line of capture latency, MultiStream for multiple capture instances, hardware timestamping, HDMI signal conditioning supporting longer cable runs, automatic fast & reliable mode detection, frame synchronised ganging of inputs (dual 4K into 8K x 2K), flexible onboard Colour Space Converter plus a whole lot more.

An advanced hardware scaling engine with polyphase multi-tap filter also provides superb antialiasing performance when downscaling and smoother transitions when upscaling.

PROVEN AND RELIABLE SDK

Built for the future, EMS continues to maintain and support its RGBEasy SDK for application developers as well as offering a Microsoft DirectShow interface based on the AV Stream framework. Inputs can be accessed by any DirectShow or Media Foundation applications including:

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

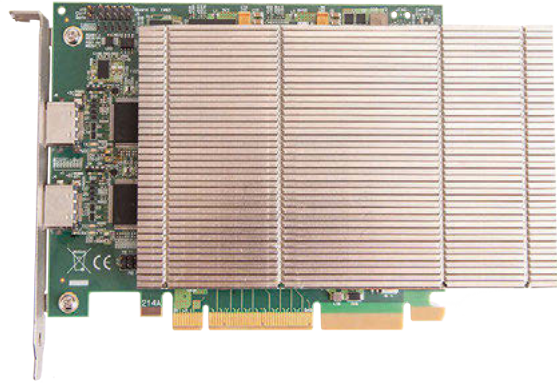A Video for Linux (V4L) driver package is also available for download.

COMPATIBILITY

The XtremeDV-UHD2 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.

MODELS AVAILABLE

Order Code: XtremeDV-UHD2
Dual HDMI 2.0 capture card

SPECIFICATION

BOARD FORMAT
PCIe x8 plug-in card

DIMENSIONS
110mm x 177mm (incl heat sync)

CONNECTORS
Dual HDMI 2.0

MAX CAPTURE RATE
600MHz TMDS Clock
Max capture surface of 8k x 8k

FRAME BUFFER
2GB

INPUT MODE DETECTION
Automatic

PIXEL TRANSFER FORMATS
R RGB10 (10-bit), 8-8-8 (24/32) 5-6-5, 5-5-5, 8-bit mono Y410 (10-bit), 4:2:2, YUY2, UYVY, YVYU
Planar Modes: NV12, YV12

COLOUR SPACES
BT2020, BT709, BT601 with selectable limited and full range encoding

UPDATE RATE
Captured frame rate will match the source providing PCIe bandwidth is not exceeded

VIDEO STANDARD
HDMI 2.0, HDMI 1.4, HDMI 1.3

POWER REQUIREMENTS
Max current at +3.3V - 1A
Max current at +12V - 1.6A
Max power ≈ 22W

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

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