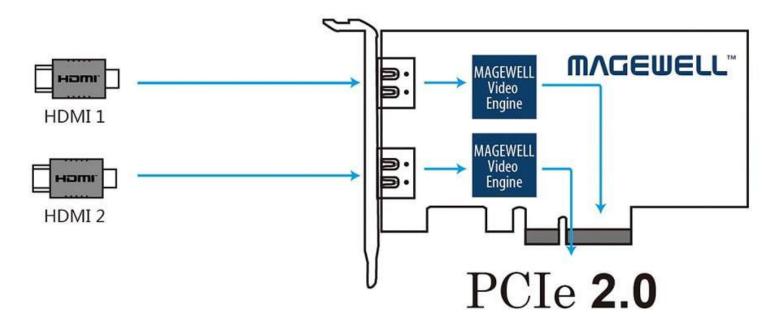
Pro Capture Dual HDMI



Two channel HD capture card

• HDMI x 2 + embedded audio x 2

Interface



Features

- PCIe 2.0 Capture 2k x 2k Compatible with Windows Compatible with Linux Up/down Scaling Deinterlacing
- **Multiple Streaming**
- Automatically Detecting Input Signal
- High-fidelity Video Processing Pipeline
- Image Control
- Various Output Color Spaces
- SG-DMA Transmission Mode
- Multiple Devices on One Host
- Hardware Time Stamp
- Mounting Hole
- Rotary Switch
- High-speed Memory
- LED Indicator
- Firmware Upgrade
- Common Driver
- Continuously Work for 24h x7

Accessories

Low Profile Bracket

Pro Capture Dual HDMI

Supported OS	 Windows 7/8/8.1/2008/2008 R2/2012 (x86 & x64) Linux (V4L2 kernel driver source code under NDA, supports x86, x64 & arm architecture)
	Windows
	DirectShow
	 DirectKS Wave API/DirectSound/WASAPI
	• Linux
	• V4L2
Supported APIs	• ALSA
	• VLC
	VirtualDub
	• OBS
	• xSplit
	• vMix
	VidBlaster
	Wirecast
	Microsoft Media Encoder
	Adobe Flash Media Encoder
Supported Software	 Any other DirectShow/V4L2 encoding/streaming software
	• 2x HDMI type A
	• DVI 1.0
Input Interfaces	 ● HDMI 1.4a
Output Interfaces	PCle Gen2 x4
Input Features	 Support for input video resolutions up to 2048×2048 pixels

HDMI Specific Features	 225MHz HDMI receiver Adaptive HDMI equalizer support for cables lengths up to 30M Support for customized EDID Support for extraction of AVI/Audio/SPD/MS/VS/ACP/IRSC1/ISRC2/Gamut InfoFrames Full colorimetry support Support for 8/10/12-bit color depths Support for RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2 color sampling Support for up to 8-channel IEC60958/IEC61937 audio streams Support for extraction of audio formation information & channel status data Support for extraction of video timing information Support for extraction of 3D format information Support for extraction of Sony/Canon DSLR time code
Video Output Formats	 Support for output image resolutions up to 2048×2048 pixels Support for output frame rates up to 120fps. (Actual output frame rate can be limited by PCIe bandwidth, and at higher image resolutions – above 1280×1024 – by the pixel clock of the on-board video processing hardware. eg. Max frame rate at 1920×1080 = ~80fps.) Support for 4:2:0 8-bit output formats: NV12, I420, YV12 Support for 4:2:2 8-bit output formats: YUY2, YUYV, UYVY Support for 4:4:4 8-bit output formats: V308, IYU2, V408, BGR24, BGR32 Support for 4:4:4 10-bit output formats: V410, Y410 More output formats are supported via Pro Capture SDK for DirectKS

- Two video processing pipelines with ~180Mpixels/s processing bandwidth for each one
- Full 10-bit video processing
- Video cropping
- Video scaling
- Video de-interlacing
 - Weave
 - Blend top & bottom field
 - Top field only
 - Bottom field only
- Video aspect ratio conversion
 - · Auto or manual selection of input aspect ratio
 - Auto or manual selection of output aspect ratio
 - Three aspect ratio conversion modes: Ignore (Anamorphic), Cropping or Padding (Letterbox or Pillarbox)
- Video color format conversion
 - Auto or manual selection of input color format & quantization range
 - Auto or manual selection of output color format, quantization range & saturation range
 - Support for RGB, YCbCr 601, YCbCr 709, YCbCr 2020 color formats
 - Support for Limited or Full quantization range
 - Support for Limited, Full & 'Extended gamut' saturation range
- Video frame rate conversion
- Video OSD composition
 - Support for PNG OSD image (up to 2048×2048)
 - Support for dynamic loading of RGBA OSD image via SDK

Video Processing Features	
	 Support for multiple cards plugged to one system On-board rotary switch to set card number, with 16 positions from 0 to F
	 System hardware device tree will display "01: Pro Capture AIO" when rotary switch is set to 1, and so on
Multiple Cards per System	 The video and audio device names displayed in your software will include the card number (set by the rotary switch)

	 Unlimited output streams for any one input channel
Multiple Output Streams	 Independent cropping, aspect ratio, color format, resolution, frame rate, de-interlacing and color adjustment settings for each individual stream
Ultra Low	Latency of 64 video lines
Latency Support	Partial notification mode in SDK
	Hardware based 100ns high resolution clock
T :	 Audio frames (192 audio samples) & video frames are stamped with hardware clock
Timestamp & A/V Synchronization	 Hardware clock can be synchronized across cards (via SDK)
	 ~700MB/s per channel DMA bandwidth in PCIe 2.0 system
	 ~400MB/s per channel DMA bandwidth in PCIe 1.0 system
	 Support for auto detection of Intel tiled GPU surface
	 Support for DirectGMA for AMD video adapter chipsets
Video Output SG-DMA	 Support for GPUDirect for Nvidia video adapter chipsets
	 Pro Capture SDK for DirectShow for easy integration (Windows)
SDK	Pro Capture SDK for DirectKS for maximum flexibility & performance (Windows)
	 All options can be controled by three levels of registry key: global level, product level and device level
Windows Driver Tweaks	Video, Audio, Crossbar filter names can be customized via registry keys
	 Multiple cards in one system can be upgraded simultaneously
Firmware Upgrade	 Cards can be upgraded without a system power shutdown (In most cases, even a reboot is not needed)
LED Indicator	 Status LEDs indicate the working state of each channel: idle, input signal locked, memory failed or FPGA configuration failed.
	 Low profile PCIe x4 Add-on Card 115.99mm x 68.88mm (without PCI bracket)
Form Factor	
Accessories	Low Profile Bracket

Power Consumption	 Max current at 12V ~0.9 A Max current at 3.3V ~0.6 A Max power consumption ~12.8 W
	Operating temperature: 0 to 40 deg C
	 Storage temperature: –20 to 70 deg C
Working Environment	Relative Humidity: 5% to 90% non-condensing