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Link do produktu: https://www.wamm.pl/magewell-pro-capture-aio-4k-plus-jednokanalowa-karta-przechwytujaca-4k-sdi-hdmi-p-2204.html



Magewell Pro Capture AIO 4K Plus | Jednokanałowa karta przechwytująca 4K (SDI, HDMI)

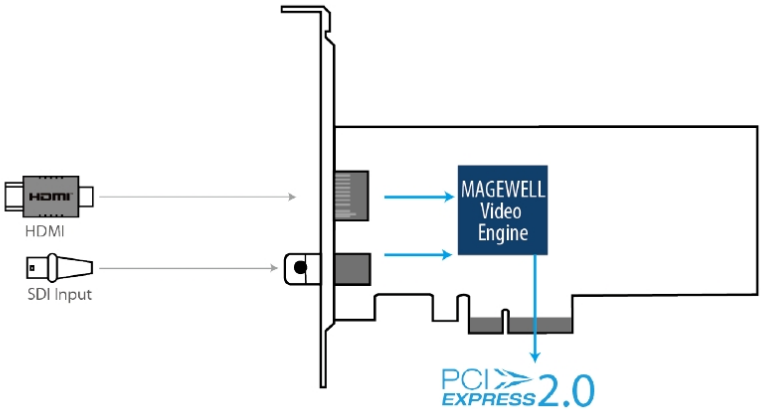
Cena brutto	**5 200 zł**
Cena netto	**4 227 zł**
Dostępność	**Zapytaj o dostępność**
Kod producenta	**11140**
Producent	**Magewell**

Opis produktu

Magewell Pro Capture AIO 4K Plus

Jednokanałowa karta przechwytująca 4K (SDI, HDMI)

Magewell Pro Capture AIO 4K Plus to wysokowydajna karta PCIe przechwytująca sygnał 4K o niskim opóźnieniu. Ta jednokanałowa karta przechwytuje sygnały HDMI lub SD/HD/3G/6G SDI z osadzonym dźwiękiem i obsługuje rozdzielczość wejściową do 4096×2160 pikseli.



Modele Pro Capture automatycznie wykrywają format sygnału wejściowego, zapewniając niezawodne, wysokiej jakości przechwytywanie wideo i audio dla profesjonalistów wideo, integratorów systemów oraz deweloperów OEM. Ponadto cechują się przetwarzaniem wideo opartym na FPGA Magewell, które nie obciąża procesora, zapewniając wysokiej jakości konwersję w górę/w dół oraz regulacje obrazu bez zużywania cennej mocy obliczeniowej systemu hosta.

Urządzenia Pro Capture obsługują systemy operacyjne Windows, Linux i macOS – w tym architektury x86, x64 oraz ARM – i oferują szeroką kompatybilność z popularnym oprogramowaniem do streamingu, produkcji na żywo, konferencji internetowych, nagrywania wykładów, współpracy oraz obrazowania medycznego. Magewell MWCapture SDK zapewnia zarówno ogólne interfejsy, jak i niestandardowe API na wszystkich platformach systemowych, pomagając deweloperom w pełni wykorzystać możliwości sprzętu Magewell i osiągnąć niższe opóźnienia, wielostrumieniowe przechwytywanie oraz synchronizację AV w wielokanałowym lub nawet wielokartowym przechwytywaniu.

Tech Specs

Supported OS

- Windows
  - Windows 7/8/8.1/10/Server 2008/Server 2008 R2/Server 2012/Server 2016 (x86 & x64)
- Linux (support x86, x64 & ARM architecture)
  - Ubuntu 12.04/14.04/16.04/17.04/17.10 (x86 & x64)
  - CentOS 6.5/7 (x86 & x64)
  - Fedora 25/26/27 (x86 & x64)
  - Red hat 6.5 and above (x86 & x64)
  - Other Linux OS with kernel version 2.6.35 and above
- Mac
  - OS X 10.9/10.10/10.11
  - macOS 10.12/10.13

Recommended OS (tested)

- Windows
  - Windows 7 Ultimate/8.1 Enterprise/10 Enterprise/Server 2008 R2 DataCenter/Server 2012 R2 DataCenter/Server 2016 R2 DataCenter (x86 & x64)
- Linux
  - Ubuntu 12.04/14.04/16.04 (x86 & x64)
  - Ubuntu 17.04/17.10 (x64)
  - CentOS 6.5/7.2 (x86 & x64)
  - Fedora 25/26 (x64)
  - Red hat 6.5 (x86 & x64)
- Mac
  - OS X 10.9.5/10.10/10.11.2/10.11.3/10.11.4
  - macOS 10.12/10.13.2/10.13.3

Supported APIs

- Windows
  - DirectShow
  - DirectKS
  - Wave API/DirectSound/WASAPI
- Linux
  - V4L2
  - ALSA

Supported Software

- VLC
- VirtualDub
- OBS
- XSplit
- vMix
- VidBlaster
- Wirecast
- Microsoft Media Encoder
- Adobe Flash Media Encoder
- Any other DirectShow/V4L2 encoding/streaming software

Input Interfaces

- HDMI

	◦ DVI-D 1.0 ◦ HDMI 2.0 • BNC ◦ SD/HD/3G/ 6G SDI
Host Interfaces	
	• PCIe Gen2 x4
Input Features	
	• Auto scan of video input sources when there is no signal input to the currently selected input source • Manual selection of video input source • Auto selection of linked (embedded) audio input source when the video input source changes • Manual selection of audio input source • Support for standard crossbar based on video input source selection • Support for input video resolutions up to 4096×2160 pixels
HDMI Specific Features	
	• 594MHz HDMI receiver • Adaptive HDMI equalizer • Support for customized EDID • Support for extraction of AVI/Audio/SPD/MS/VS/ACP/ISRC1/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 • Support for Side-by-Side Half, Top-and-Bottom, Frame Packing 3D mode
SDI Specific Features	• ntegrated cable equalizer supporting cable lengths up to 230M for HD signals • Support for SD/HD/3Ga/3Gb/3Ga-DL/3Gb-DS/6G (SMPTE 2081) standards • Support for 2K (2048×1080) & 4K (4096×2160) mode • Support for RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2 color sampling • Support for 10/12-bit color depth • Support for extraction of SMPTE 352 payload identifier • Support for up to 8 (mono) audio channels at 48KHz (channels 1–8 from the 16 available in the SDI spec) • Support for extraction of audio formation information & channel status data • Limited support of 3Gb-DS: only the first stream can be captured • Limited support for capture of the first link of dual link interfaces: ◦ YCbCr 4:2:2 10-bit 1080p 50/59.94/60: captured as 1080i 50/59.94/60 ◦ YCbCr 4:4:4 10-bit: captured as 4:2:2 ◦ RGB 4:4:4: R/B sub-sampled

Video Capture Formats

- Support for capture image resolutions up to 4096×2160 pixels
- Support for capture frame rates up to 144fps. (Actual capture frame rate can be limited by PCIe bandwidth & image resolution)
- Support for 4:2:0 8-bit capture formats: NV12, I420, YV12
- Support for 4:2:2 8-bit capture formats: YUY2, YUYV, UYVY
- Support for 4:4:4 8-bit capture formats: V308, IYU2, V408, BGR24, BGR32
- Support for 4:4:4 10-bit capture formats: V410, Y410
- More capture formats are supported via Pro Capture SDK for DirectKS

Video Processing Features

- Two video processing pipelines with ~720Mpixels/s processing bandwidth
- 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 capture 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 capture 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 4069×2160)
    - Support for dynamic loading of RGBA OSD image via SDK

Multiple Cards per System

- 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 4K+” when rotary switch is set to 1,and so on
- The video and audio device names displayed in your software will include the card number (set by the rotary switch)

Multiple Capture Streams

	• Unlimited capture streams for any one input channel • Independent cropping, aspect ratio, color format, resolution, frame rate, de-interlacing and color adjustment settings for each individual stream
Ultra Low Latency Support	
	• Latency of 64 video lines • Partial notification mode in SDK
Timestamp &A/V Synchronization	
	• Hardware based 100ns high resolution clock • Audio frames (192 audio samples) & video frames are stamped with hardware clock • Hardware clock can be synchronized across cards (via SDK)
Video Capture SG-DMA	
	• ~1600MB/s per channel DMA bandwidth in PCIe 2.x system • ~800MB/s per channel DMA bandwidth in PCIe 1.x system • Support for auto detection of Intel tiled GPU surface • Support for DirectGMA for AMD video adapter chipsets • Support for GPUDirect for Nvidia video adapter chipsets
SDK	
	• Pro Capture SDK for DirectShow for easy integration (Windows) • Pro Capture SDK for DirectKS for maximum flexibility & performance (Windows)
Windows Driver Tweaks	
	• All options can be controled by three levels of registry key: global level, product level and device level • Video,Audio, Crossbar filter names can be customized via registry keys
Firmware Upgrade	
	• Multiple cards in one system can be upgraded simultaneously • 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.
Form Factor	
	• Low profile PCIe x4 Add-on Card • 140mm x 68.88mm (without PCI bracket)

Power Consumption	• Max current at 12V: ~ 0.59 A • Max current at 3.3V: ~ 0.97 A • Max power consumption: ~ 8.4 W
Working Environment	• Operating temperature: 0 to 40 deg C • Storage temperature: –20 to 70 deg C • Relative Humidity: 5% to 90% non-condensing