

MAGEWELL®

**MAGEWELL
PRODUCT CATALOG**



The Introduction
Company

Founded in 2011, Magewell designs and develops hardware and software for video and audio capture, conversion and streaming in the broadcast, production and professional AV markets. Magewell provides products and technical services to users and OEM manufacturers from more than 50 countries and regions including the Americas, Europe, China, Oceania, Japan, South Korea, and Southeast Asia through its global channel partners.



The Introduction Company



While ensuring the ease of use and reliability of its products, Magewell always pays close attention to cutting-edge technology developments and maintains close communications with its upstream and downstream partners. Magewell has accumulated rich software and hardware development experience that enable it to combine FPGA, SoC and ASIC chips with the processing power of computer CPUs and GPUs to deliver multi-channel AV capture, encoding and network transmission with lower latency and higher efficiency. Magewell's open attitude to technology and rigorous pursuit of innovation have won the company and its products prestigious recognition from domestic and foreign partners, users and industry experts – from the customer-voted Streaming Media Readers' Choice Award to being selected as the "Best Application" by Xilinx.

Product Overview



Magewell offers solutions in four main product categories: I/O, Stream, Convert, and Produce/Present. Bridging audio and video signals with software solutions, Magewell I/O products include Pro Capture PCIe cards; USB Capture and USB Capture Plus external capture devices; and ultra-compact Eco Capture M.2 cards. The Stream category includes the Ultra Stream family of live streaming and recording appliances and the Ultra Encode series of universal live media encoders. Our Convert portfolio includes the Pro Convert family of hardware encoders and decoders for bridging traditional video and audio signals with IP media networks. In the Produce/Present category, the Director Mini all-in-one production system and USB Fusion capture and presentation device help users create compelling content. Magewell also offers software utilities to enhance the customer experience of its hardware offerings.



Product Introduction

I/O

Magewell's award-winning video capture solutions have become the preferred choice of users and integrators by delivering an unparalleled combination of performance, reliability, and value. Available as internal cards or external devices with flexible interface and resolution choices to suit any application, they support popular operating systems and offer extensive compatibility with third-party production, web conferencing, recording, streaming and presentation software. Magewell also offers streamlined application software and a comprehensive SDK.



Pro Capture

Available in single and multi-channel models with a wide selection of input interfaces, Pro Capture PCI Express cards are ideal for use in desktop computers. The cards' FPGA-based video processing engine provides high-quality up/down-conversion (resolution and frame rate) with zero impact on the host system CPU. In addition to generic programming interfaces, Magewell also offers custom APIs to achieve lower-latency capture and synchronization as well as other advanced functions.

- Compatible with Windows, Linux and macOS.
- High-performance, multi-channel 4K or HD capture at high frame rates.
- Latency as low as 64 video lines.



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for more details.





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USB Capture (Plus)

USB Capture and USB Capture Plus external devices offer a full range of input interface choices and enable all types of computers including laptops to capture HD or 4K signals through a standard USB 3.0 connection. Recommended by many third-party application developers, the devices are the easiest and most reliable way to bring video and audio signals into popular software. USB Capture Plus devices add discrete analog audio input and output for capture and monitoring.

- Compatible with Windows, Linux, macOS and Chrome OS.
- USB 3.0 for data transmission & power supply.
- Automatic input format detection and driver-free installation for true plug-and-play operation.





Eco Capture

Ideal for use in small or portable systems where full-sized PCIe slots are not available, Eco Capture M.2 cards measure just 22x80mm (0.87x3.15in) and are available in a variety of configurations with HDMI or SDI inputs. The cards' FPGA-based video processing engine and SG-DMA transmission mode effectively reduce CPU usage.

- Compatible with Windows and Linux.
- Ultra-compact capture for up to four HD signals or one 4Kp60 signal.
- Low power consumption and low latency.



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Product Introduction

Stream

Magewell offers a choice of streaming encoders to match users' experience level and project. Ultra Stream encoders make live streaming remarkably simple even for non-technical users, enabling them to stream or record high-quality video with one click. For advanced streaming needs, the Ultra Encode family of universal live media encoders offers systems integrators, streaming professionals and OEM partners a flexible and affordable encoding solution for applications including live streaming, AV over IP, remote contribution, IP production workflows and much more.

Stream



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Ultra Stream

Available in HDMI and SDI models, Ultra Stream encoders enable users to record and stream high-quality video with one click using on-device buttons. Operators can also use a browser-based web interface or an intuitive smartphone app to configure the devices and monitor the streaming content. Magewell provides rich APIs for developers and integrators to integrate Ultra Stream with their solutions.

- Stream to popular third-party services or custom destinations via RTMP, RTMPS or RTSP.
- Record and save clips to internal storage, a USB flash drive, the associated smart phone or a specified FTP server.
- Internet connectivity via wired Ethernet, Wi-Fi and optional 3G/4G modem support.



the 2020
streaming media
producer





Ultra Encode (Plus)

The Ultra Encode family offers versatile encoding for a wide range of professional applications, from live streaming to remote production, multi-site video distribution and IP media workflows. Ultra Encode and Ultra Encode Plus models provide high-quality H.264, H.265 (HEVC) and NDI® HX encoding and support multiple protocols for streaming via popular platforms and CDNs or over your LAN or WAN.

- Live H.264/H265 streaming in protocols including SRT, RTMP, RTMPS, HLS and more.
- NDI® HX encoding for bandwidth-efficient IP production workflows or AV-over-IP.
- Control via intuitive Web GUI or HTTP-based APIs.
- Combine with Pro Convert decoders for end-to-end media transport.



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Stream



Ultra Encode AIO

Ultra Encode AIO live media encoders take the capabilities of our original Ultra Encode models to a whole new level for advanced use cases. They build on the flexible functionality of the Ultra Encode family with expanded features including HDMI and SDI input connectivity in a single unit; 4K encoding and streaming from the HDMI input; simultaneous multi-protocol streaming; higher streaming bitrates; file recording; and much more.

- Encode one input or combine HDMI and SDI inputs (picture-in-picture or side-by-side) into one output
- Stream to up to 6 simultaneous destinations in multiple protocols at up to 32Mbps each
- Supports multiple delivery protocols including RTMP, RTMPS, SRT, RTSP, RTP, HLS, and TVU's ISSP technology
- High-efficiency, low-bandwidth NDI® HX 3 for IP-based production and AV over IP
- Scheduled streaming and recording



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NDI® is a brand of the Vizrt Group.



Product Introduction

Convert

Leveraging advanced video-over-IP and streaming technologies, Magewell's low-latency Pro Convert hardware encoders and decoders are available with a variety of inputs to let users connect existing production, presentation, and distribution equipment into flexible, IP-based workflows over standard local area networks and the Internet.

Convert



Pro Convert Encoders & Decoders

The Pro Convert family of hardware converters enables users to bring HDMI or SDI video signals into and out of AV-over-IP workflows using NewTek's popular NDI technology. Pro Convert decoders can also decode Internet streams including SRT, RTMP, RTSP, MPEG-TS over UDP/ RTP and HTTP. The devices support up to 4Kp60 encoding and decoding, and are compatible with a wide range of video/audio signals and baseband AV equipment.

- End-to-end, total latency as low as 50ms when pairing Pro Convert NDI[®] encoders and decoders.
- Powerful video processing and stellar-quality video & audio.
- Multi-channel audio encoding and decoding.
- Decoders support multiple streaming protocols.
- APIs available for systems integration.



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Convert



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Pro Convert Audio family

Pro Convert Audio devices bring the power and flexibility of the Pro Convert family to the audio-over-IP domain. These multi-format IP audio encoder/decoder/IO devices enable easy conversion between different IP audio technologies while also offering a seamless bridge between analog audio, software, and IP networks.

- Convert between different audio-over-IP technologies or capture analog audio into software or IP streams
- Flexible, virtual audio matrix allows routing or mixing of any analog or IP-based input channel to any output
- Enables mixed-technology local and remote production workflows and Pro AV installations
- Standard UAC compatibility with popular video conferencing, streaming and production software
- Pro Convert Audio DX: supports Dante®, NDI®, SRT and analog audio
- Pro Convert AES67: supports AES67, NDI®, SRT and analog audio



Modator

The Modator family brings the reliability and low-latency performance of the Magewell's standalone encoders and decoders to a high-density, modular, rackmount form factor. The Modator 2U chassis fits standard rack deployments and supports up to 10 Modator modules.

- Each installed encoding or decoding module independently provides high-quality conversion
- Dual power supplies and optimized heat dissipation for 24/7 operation
- LED touch screen provides status monitoring of the chassis and modules

Current Modator modules include:

- Pro Convert HDMI Plus Module (NDI® High Bandwidth encoder)
- Pro Convert HDMI 4K Plus Module (NDI® High Bandwidth encoder)
- Pro Convert for NDI to HDMI Module (multi-format decoder)
- Pro Convert for NDI to AIO Module (multi-format decoder)



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Product Introduction

Produce & Present

Magewell's feature-rich production and presentation solutions enable users to easily create visually compelling content. The Director Mini portable, all-in-one live production and streaming system combines multi-input switching, graphics, streaming, recording and monitoring in one compact device for live event coverage, remote production feeds and more. The USB Fusion capture and mixing device lets users combine cameras, wired and wireless screenshares, and media file sources into attractive live presentations for hybrid meetings, remote lectures, webinars and more.



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Director Mini

The Director Mini portable, all-in-one live production and streaming system offers a unique combination of input source flexibility and feature richness in an exceptionally versatile form factor. Users can switch between HDMI and USB AV inputs as well as live IP sources (including SRT, RTMP and NDI® HX streams) plus file-based media assets. It enables a single operator to easily create visually compelling productions for live event coverage, remote production feeds and more.

- Multi-input switching, graphics, streaming, recording and monitoring in one portable device
- Flexible AV and IP inputs including HDMI, USB, NDI® HX, SRT, mobile sources and more
- Rich output possibilities including RTMP and SRT streams, NDI® HX and local displays
- Intuitive touchscreen interface and companion mobile app
- Camera-mountable form factor supports optional, hot-swappable batteries



USB Fusion

Offering two HDMI inputs and one USB webcam input, the USB Fusion multi-input video capture device also supports wireless casting protocols including AirPlay®, Google Cast® and Miracast™. Users can switch between cameras, wired or wireless screenshares, and file-based sources, or to combine inputs in picture-in-picture or side-by-side layouts for capturing into popular software via its USB 3.0 interface. The device is suitable for streaming, live event production, online lectures, webinars, video conferencing and other applications.

- Compatible with Windows, Linux and macOS.
- Automatic input format detection and driver-free installation.
- Standard UVC/UAC device offering broad compatibility with popular software.
- Tablet app for advanced presentation features including annotations and media files.



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SDK

SDK



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MWCAapture SDK

The MWCAapture SDK offers comprehensive APIs and sample applications that help developers maximize the capabilities of Magewell capture hardware to reduce the ‘heavy lifting’ required by the computers’ CPUs. The SDK includes Windows, Linux and Mac versions and not only provides Magewell custom APIs, but also supports generic interfaces including DirectShow, DirectKS, V4L2 and AVCaptureSession.

- Super-low-latency data transfer.
- Multi-channel and multi-stream capture with independent setting of each stream’s frame rate.
- Synchronize channels across multi-channel or even multiple capture cards.
- Define and obtain Ancillary Data (ANC).
- Capture, encode and render HDR10 video.
- Color space conversion.
- Capture 8-Channel Audio.
- GPU-accelerated video encoding.

Software



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Software Tools

Magewell provides simple applications and software tools to help users easily take advantage of Magewell devices and access advanced functions.

- Preview, record and stream input signals.
- Verify input signals and capture devices.
- Enhance efficiency with select third-party software and technology.
- Configure the device for advanced functionality.



SRT Listener *RTSP*
TS over UDP *SRT Caller* *RTMP*
CONTROL HUB *TS over RTP*



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Control Hub

The Control Hub centralized management software makes it easy for systems integrators, administrators and IT staff to manage multiple Magewell streaming and IP conversion devices across several locations. Deployed on-premises or in the cloud, Control Hub can also convert streams between multiple protocols with an exceptionally flexible stream routing architecture.

- Centrally manage multiple Magewell streaming and IP conversion devices.
- Remotely configure device parameters, monitor device status, trigger operational functions and perform firmware upgrades.
- Convert streams between RTMP, SRT (in caller or listener mode), RTSP and transport streams (delivered over UDP or RTP).

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