MATROX® VIDEO OPEN-STANDARD, 4K60 AVOIP ENCODING



Matrox® Maevex 7100 Series

Open-standard, 4K60 AVoIP encoding for optimal performance with minimal network bandwidth usage

Matrox® Maevex 7100 Series (7112A and 7112H) single-channel video encoders are designed to deliver a comprehensive and flexible streaming solution using open standards. These standalone AVC/HEVC encoders provide high compression, ultra-low latency, 4K60 input capture and high-quality encode with zero-latency pass-through. Both models are compact, fanless, low power, and rack-ready. Leveraging H.265 technology, Maevex 7112H can encode video at low bitrates.

Maevex 7112A and 7112H provide secure streaming, offer adjustable parameters, and support multiple streaming protocols. These encoders fit seamlessly into existing infrastructures and complement the Maevex product line. Well-suited for diverse applications, Maevex 7100 Series is ideal for secure command and control centers, operation rooms, and other mission critical environments. TAA-compliant SKUs are available.



Key features and benefits

4K60 input capture and encode	Stream and record—simultaneously—up to 4K60, with high quality scaling options.	
Zero latency pass-through	Achieve zero-latency pass-through for real-time output of desktop, camera, and other types of content.	
Standards-based HEVC and AVC codecs	Deliver interoperability between existing devices and environments.	
H.265 efficiency	Achieve flawless quality with minimal bandwidth usage.	
Ultra-low latency	When paired with Maevex 6152 decoders, Maevex 7112 delivers ultra-low latency transmission.	
Flexible streaming	Enjoy five streaming protocols—RTSP, MPEG2-TS, RTP, RTMP(S) and SRT—for secure, trouble-free streaming.	
Fanless, quiet, and rack mountable	Deliver zero noise operation thanks to its fanless design, making Maevex 7112 ideal for control room environments and operator desktops. Install up to three devices horizontally in 1 RU of rack space.	
PowerStream Plus application, Web UI, and complimentary REST APIs	Leverage the convenience of PowerStream Plus software, including the new web user interface, to configure, control, and monitor your devices. Additionally, use the complimentary REST APIs and WEB APIs to build new applications.	

Highly secure and robust AV over IP solution

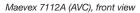
Maevex 7100 Series offers enterprise-grade security features to ensure protection of both the encoded video streams as well as our hardware device within your network. These include integration with Microsoft Active Directory for access control, HTTPS communication for secure device control, secure and verified firmware updates, 802.1x support for network authentication, regular vulnerability updates, and the Secure Reliable Transport (SRT) support with AES encryption.

Unmatched convenience with single stream and record

Maevex 7112 encoders deliver source content to on-premises end points over LAN, WAN (VPN), and internet. Feed cloud-based servers, and record to any accessible network location, including a Network Attached Storage (NAS) and Network Video Recorder (NVR)—all in a compact form factor. You can also leverage RTMP for seamless cloud integration and reliable video streaming. Secure Reliable Transport (SRT) protocol ensures high-quality reliable streaming even on noisy or unpredictable networks.

Appliance overview



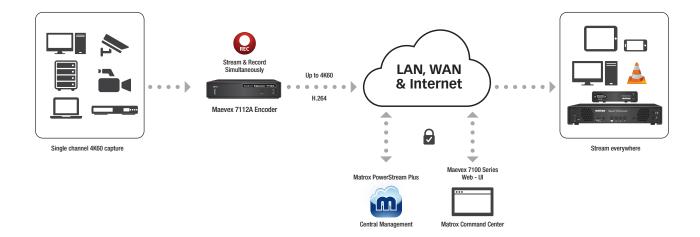




Maevex 7112A (AVC), back view

Maevex 7112H features a similar form factor to 7112A

Maevex 7100 Series delivers workflow flexibility



Technical specifications

	Maevex 7112A	Maevex 7112H	
Performance			
Maximum capture resolution	1x 3840x	1x 3840x2160 @60Hz	
Color space capture		RGB and YUV 8-bit support Color space conversion support	
Encoding formats (Codecs)	Video: H.264/MPEG-4 Part 10 (AVC) Audio: MPEG-4 AAC-LC, OPUS and LPCM	Video: H.264/MPEG-4 Part 10 (AVC) Video: H.265/MPEG-H Part 2 (HEVC) Audio: MPEG-4 AAC-LC, OPUS and LPCM	
Chroma sub-sampling	4:2:	4:2:0 (8-bit)	
Encoding capability @4:2:0	1x 3840x	2160 @60Hz	
Profiles	Baseline (BP), Main (MP), High (HiP), High10 (Hi10P), Intra, up to Level 5.2	Main (MP), Main Intra, Main10, Main10 Intra, Main, Intra up to Level 5.1 High Tier	
Encoding level	Up	Up to 5.2	
Bitrate range (Per stream)		64Kbps to 60 Mbps 15 Mbps (default)	
Rate Control	CBR, VBR, ad	CBR, VBR, adjustable GOP size	
Audio sample frequency	32 kHz, 44.1	32 kHz, 44.1 kHz, and 48 kHz	
Audio bitrates	From 64 to 320 Kb/s (/	From 64 to 320 Kb/s (AAC-LC, OPUS and LPCM)	
Scaling		Yes	
Recording			
File formats	Transport	Transport Stream (.TS)	
Programmability	Start/stop, du	Start/stop, duration, file location	
Recording locations		Shared network drive or NAS USB 3.0*	
Networking interface			
Streaming protocols	• RTP • SRT • SR • R' • MPEG2 • MPEG2	RTSP (TCP), RTCP & RTP (UDP) - all required RTP over UDP SRT over UDP RTMP/(S) MPEG2-TS over UDP MPEG2-TS over RTP RTSP over TCP (interleaved)	
Command & control	HTTPS over TCP, L	HTTPS over TCP, UPnP (discovery), SSDP	

Technical specifications (Cont.)

	Maevex 7112A	Maevex 7112H	
Networking interface (Cont.)			
Network standard	• 100/1,000 base-T Ethernet, a IGMPv2 and IGI		
IP addressing	iPv4, DHCP (default) and static	IP address support, iPv6*	
IP stream support	Unicast, m	ulticast	
Network security	802.1x su	pport*	
Software			
PowerStream Plus (Free download)	Network d Encoding and record Multi-protocol is Frame rate m Resolution Administrator and user centres.	Compatible with Maevex 6100 Series and Maevex 5100 Series Network discovery Encoding and recording management Multi-protocol management Frame rate management Resolution control Administrator and user credential management Scaling management	
Command Center Web-UI	Multi-protocol Frame rate m Resolutior	Encoding and recording management Multi-protocol management Frame rate management Resolution control Scaling management	
Command Center Web-UI	Available for lower-level development		
Supported operating systems	Microsoft® Server® 2022, Windows® Serve	er [®] 2019, Windows [®] 11, Windows [®] 10	
Connectivity			
Network connector	1x RJ45 with status	1x RJ45 with status LED indicators	
Video input	1x HDMI [®] 2.0 (Type A)	with audio support	
Video output/Pass-through	1x HDMI® 2.0 (Type A) with audio support		
Audio input	 1x HDMl digital LPCM two-channel stereo audio 1x 3.5 mm analog stereo audio in 0.57 Vrms -29 kΩ -6 dB to +16.5 dB 		
Audio output	1x HDMI digital LPCM two	o-channel stereo audio	
USB (For recording)	1x USB 3.0*		
Hardware			
Noise emission	Fanless		
Power supply		100-240 VAC in, 12 VDC out, ~12W Barrel locking power connector	
Power cords included	US, EU, UK,	US, EU, UK, Aus/NZ	
Product dimensions		8.53 x 7.52 x 1.68 in (21.7 x 19.1 x 4.3 cm)	
Form factor	Rack mountab	Standalone appliance Rack mountable (1U, 1/3R) Weight is ~350 grams/0.77 lbs	
Operating conditions	Altitude: 650 hPa (3580r	Temp – 0 to 45 degrees C Altitude: 650 hPa (3580m) to 1013 hPa (0m) Humidity: 10 to 90% non-condensing	
Storage conditions	Altitude: 192 hPa (12000n	Temp40 to 70 degrees C Altitude: 192 hPa (12000m) to 1020 hPa (-50m) Humidity: 10 to 90% non-condensing	
Part numbers	MVX-E7112A-1	MVX-E7112H-1	
Accessories		 Rackmount Kit (part number: RMK-19TR-A) Secure Cable Solution for HDMI (part number: SK-SLND-4) 	

^{*} Available in future software release.

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