

## Matrox® Maevox 7100 Series

### **Open-standard, 4K60 AVoIP encoding.**

Matrox® Maevox 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, Maevox 7112H can encode video at low bitrates.

Maevox 7112A and 7112H provide secure streaming, offer adjustable parameters, and support multiple streaming protocols. These encoders fit seamlessly into existing infrastructures and complement the Maevox product line. Well-suited for diverse applications, Maevox 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 Maevox 6152 decoders, Maevox 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 Maevox 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.

Maevox 7100 Series integrates several 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<sup>1</sup> for network authentication, regular vulnerability updates, and the Secure Reliable Transport (SRT) support with AES encryption.

## Unmatched convenience with single stream and record.

Maevox 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



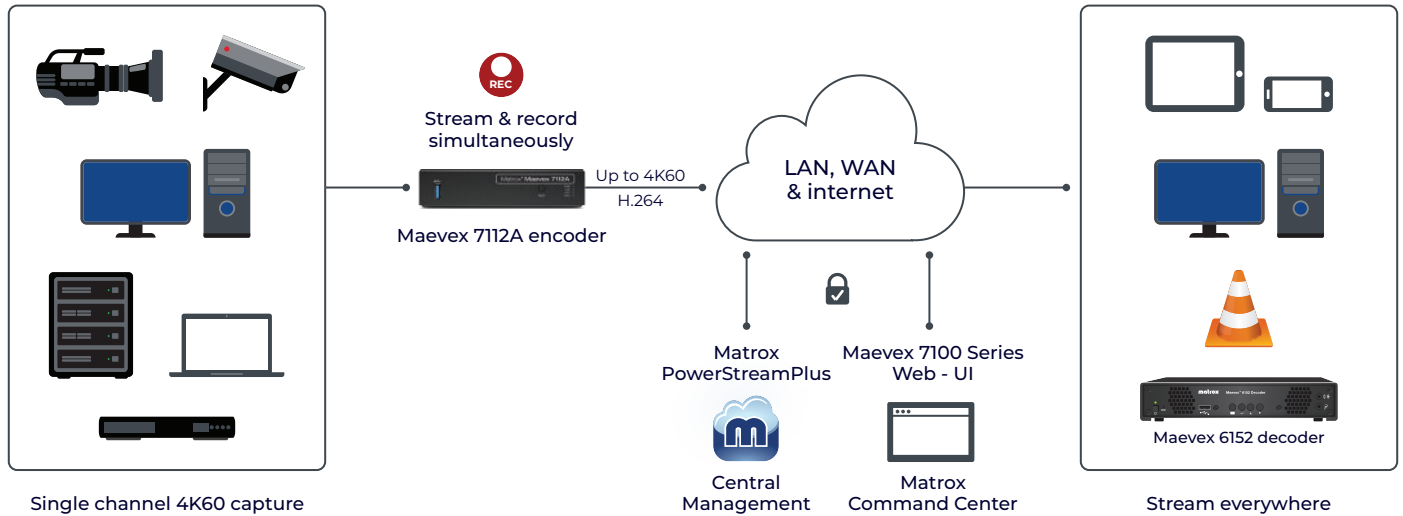
Maevox 7112A (AVC) (front view)



Maevox 7112A (AVC) (back view)

*Maevox 7112H features a similar form factor to 7112A*

# Maevex 7100 Series delivers workflow flexibility.



## Technical specifications

| Product                    | Maevex 7112A                                                                                                                                                                            |  | Maevex 7112H                                                                                                        |  |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------|--|
| Part numbers               | • MVX-E7112A-1                                                                                                                                                                          |  | • MVX-E7112H-1                                                                                                      |  |
| Maximum capture resolution | • 1x 3840x2160@60Hz                                                                                                                                                                     |  |                                                                                                                     |  |
| Color space capture        | • RGB and YUV 8-bit support<br>• Color space conversion support                                                                                                                         |  |                                                                                                                     |  |
| Encoding formats (codecs)  | • Video: H.264/MPEG-4 Part 10 (AVC)<br>• Audio: MPEG-4 AAC-LC, OPUS and LPCM                                                                                                            |  | • Video: H.264/MPEG-4 Part 10 (AVC)<br>• Video: H.265/MPEG-H Part 2 (HEVC)<br>• Audio: MPEG-4 AAC-LC, OPUS and LPCM |  |
| Chroma sub-sampling        | • 4:2:0 (8-bit)                                                                                                                                                                         |  |                                                                                                                     |  |
| Encoding capability @4:2:0 | • 1x 3840x2160@60Hz                                                                                                                                                                     |  |                                                                                                                     |  |
| Profiles                   | • Baseline (BP), Main (MP), High (HiP),<br>• High10 (Hi10P), Intra, up to Level 5.2                                                                                                     |  | • Main (MP), Main Intra, Main10, Main10 Intra,<br>• Main, Intra up to Level 5.1 High Tier                           |  |
| Encoding level             | • Up to 5.2                                                                                                                                                                             |  |                                                                                                                     |  |
| Bitrate range (per stream) | • 64Kbps to 60 Mbps<br>• 15 Mbps (default)                                                                                                                                              |  |                                                                                                                     |  |
| Rate Control               | • CBR, VBR, adjustable GOP size                                                                                                                                                         |  |                                                                                                                     |  |
| Audio sample frequency     | • 32 kHz, 44.1 kHz, and 48 kHz                                                                                                                                                          |  |                                                                                                                     |  |
| Audio bitrates             | • From 64 to 320 Kb/s (AAC-LC, OPUS and LPCM)                                                                                                                                           |  |                                                                                                                     |  |
| Scaling                    | • Yes                                                                                                                                                                                   |  |                                                                                                                     |  |
| Recording                  |                                                                                                                                                                                         |  |                                                                                                                     |  |
| File formats               | • Transport Stream (.TS)                                                                                                                                                                |  |                                                                                                                     |  |
| Programmability            | • Start/stop, duration, file location                                                                                                                                                   |  |                                                                                                                     |  |
| Recording locations        | • Shared network drive or NAS<br>• USB 3.0 <sup>1</sup>                                                                                                                                 |  |                                                                                                                     |  |
| Networking interface       |                                                                                                                                                                                         |  |                                                                                                                     |  |
| Streaming protocols        | • RTSP (TCP), RTCP & RTP (UDP) – all required<br>• RTP over UDP<br>• SRT over UDP<br>• RTMP/(S)<br>• MPEG2-TS over UDP<br>• MPEG2-TS over RTP<br>• RTSP over TCP (interleaved)<br>• HLS |  |                                                                                                                     |  |
| Command & control          | • HTTPS over TCP, UPnP (discovery), SSDP                                                                                                                                                |  |                                                                                                                     |  |
| Network standard           | • 100/1,000 base-T Ethernet, auto speed, half/full duplex<br>• IGMPv2 and IGMPv3 support                                                                                                |  |                                                                                                                     |  |

## Technical specifications

| Product                          | Maevox 7112A                                                                                                                                                                                                                                                                                                                                                             | Maevox 7112H |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Networking interface (cont.)     |                                                                                                                                                                                                                                                                                                                                                                          |              |
| IP addressing                    | • IPv6, IPv4, DHCP (default) and static IP address support                                                                                                                                                                                                                                                                                                               |              |
| IP stream support                | • Unicast, multicast, continuous streaming on signal loss                                                                                                                                                                                                                                                                                                                |              |
| Network security                 | • 802.1x network authentication support¹                                                                                                                                                                                                                                                                                                                                 |              |
| Software                         |                                                                                                                                                                                                                                                                                                                                                                          |              |
| PowerStream Plus (free download) | <ul style="list-style-type: none"><li>• Compatible with Maevox 6100 Series and Maevox 5100 Series</li><li>• Network discovery</li><li>• Encoding and recording management</li><li>• Multi-protocol management</li><li>• Frame rate management</li><li>• Resolution control</li><li>• Administrator and user credential management</li><li>• Scaling management</li></ul> |              |
| Command Center Web-UI            | <ul style="list-style-type: none"><li>• Encoding and recording management</li><li>• Multi-protocol management</li><li>• Frame rate management</li><li>• Resolution control</li><li>• Scaling management</li></ul>                                                                                                                                                        |              |
| Maevox 7100 Series REST API      | • Available for lower-level development                                                                                                                                                                                                                                                                                                                                  |              |
| Supported operating systems      | • Microsoft® Server® 2022, Windows® Server® 2019, Windows® 11, Windows® 10                                                                                                                                                                                                                                                                                               |              |
| Connectivity                     |                                                                                                                                                                                                                                                                                                                                                                          |              |
| Network connector                | • 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                      | <ul style="list-style-type: none"><li>• 1x HDMI digital LPCM two-channel stereo audio</li><li>• 1x 3.5 mm analog stereo audio in<ul style="list-style-type: none"><li>- 0.57 Vrms</li><li>- 29 kΩ</li><li>- 6 dB to +16.5 dB</li></ul></li></ul>                                                                                                                         |              |
| Audio output                     | • 1x HDMI digital LPCM two-channel stereo audio                                                                                                                                                                                                                                                                                                                          |              |
| USB (for recording)              | • 1x USB 3.0¹                                                                                                                                                                                                                                                                                                                                                            |              |
| Hardware                         |                                                                                                                                                                                                                                                                                                                                                                          |              |
| Noise emission                   | • Fanless                                                                                                                                                                                                                                                                                                                                                                |              |
| Power supply                     | <ul style="list-style-type: none"><li>• 100-240 VAC in, 12 VDC out, ~12W typical (40W max)</li><li>• Barrel locking power connector</li></ul>                                                                                                                                                                                                                            |              |
| Power cords included             | • US, EU, UK, Aus/NZ                                                                                                                                                                                                                                                                                                                                                     |              |
| Product dimensions               | • 7.11 x 5.50 x 1.31 in (18.07 x 13.97 x 3.33 cm)                                                                                                                                                                                                                                                                                                                        |              |
| Form factor                      | <ul style="list-style-type: none"><li>• Standalone appliance</li><li>• Rack mountable (1U, 1/3R)</li><li>• Weight is ~350 grams/0.77 lbs</li></ul>                                                                                                                                                                                                                       |              |
| Operating conditions             | <ul style="list-style-type: none"><li>• Temp: 0 to 45 degrees C</li><li>• Altitude: 650 hPa (3580m) to 1013 hPa (0m)</li><li>• Humidity: 10 to 90% non-condensing</li></ul>                                                                                                                                                                                              |              |
| Storage conditions               | <ul style="list-style-type: none"><li>• Temp: -40 to 70 degrees C</li><li>• Altitude: 192 hPa (12000m) to 1020 hPa (-50m)</li><li>• Humidity: 10 to 90% non-condensing</li></ul>                                                                                                                                                                                         |              |
| Accessories                      | <ul style="list-style-type: none"><li>• Rackmount kit (part number: RMK-19TR-A)</li><li>• Secure cable solution for HDMI (part number: SK-SLND-4)</li></ul>                                                                                                                                                                                                              |              |

1. Available in future software release.



### Contact Matrox Video

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