

Matrox® Maevox 6152 Quad 4K Decoder

Showcase content anywhere, in any format.

The Maevox 6152 quad decoder is a real-time H.264 video decoder capable of decoding up to four 4K live MPEG2-TS, RTSP, and SRT streams at low latency.

When paired with Maevox 6100 Series encoders, Maevox 6152 can achieve exceptionally low latency at low network bitrate consumption. It also supports reliable, encrypted transmission over internet for the secure streaming of content. The complimentary Maevox SDK enables you to build new applications or integrate the functionalities of PowerStream Plus into existing applications.

TAA compliant SKU available.

Key features and benefits.

The ultimate pairing for ultra-low latency

The MaeveX 6152 decoder interoperates with virtually any device—third-party encoders, cameras, software encoders, or other Matrox products. This H.264 decoder integrates seamlessly into existing 1 GbE networks to decode many superior-quality, low-latency AV streams—all without sacrificing quality. To achieve ultra-low latency, pair your MaeveX 6152 decoder with any MaeveX 6100 Series encoder to reach glass-to-glass latency as low as 50 ms.

Flexible protocols. Secure streaming.

Decode up to four 4K live MPEG2-TS, RTSP, and SRT streams. Support for the Secure Reliable Transport (SRT) video transport protocol means that secure, low-latency, and high-performance streaming is also realized on noisy or unpredictable networks such as the public Internet. Whether you're dealing with a stable LAN connection, a limited WAN pipeline, or an unpredictable Internet transport, MaeveX has the right streaming protocol for the job.

Simple setup with preset layouts

PowerStream Plus software provides preset layouts for effortless setup of multi-screen configurations. Use the multiple Picture-in-Picture (PiP) and composite options to arrange your streams in a variety of layouts. With preset layouts, you can quickly set up single or multiple streams per display and arrange the content on your screen.

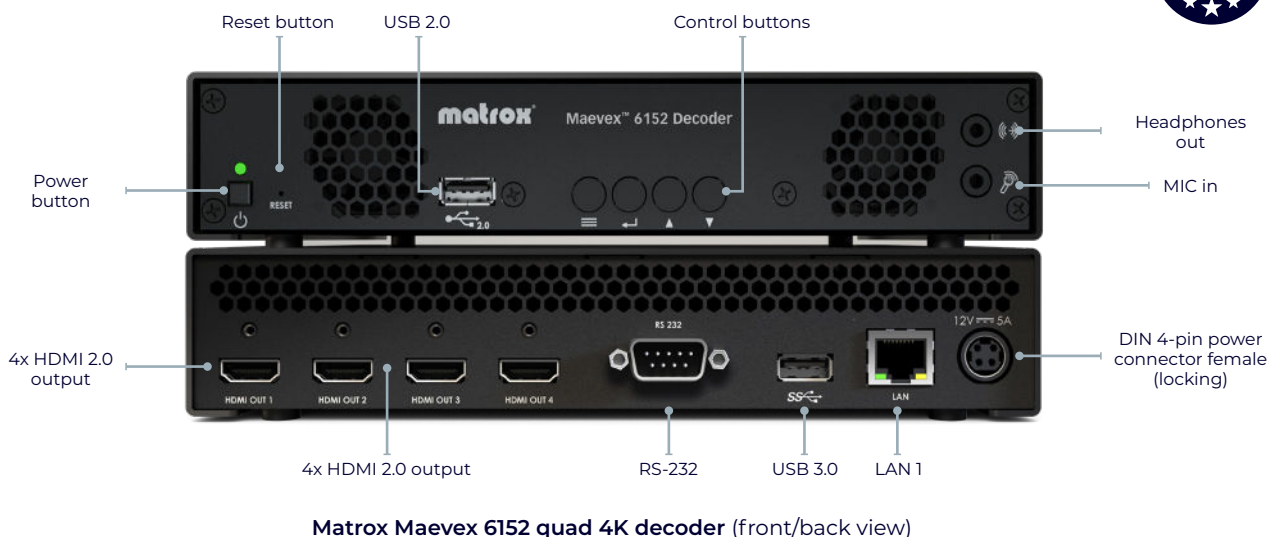
Drag, drop, and done

Setting up video and streams has never been easier—or faster. After selecting a layout for each of your four outputs, simply drag and drop the source into the appropriate placeholder. Finally, adjust your layout settings, and you're done.

Flawless image quality

Decode 2x 4Kp60, 4x 4Kp30/60, 8x 1080p60, 16x 1080p30 streams. Streams encoded with 4:4:4, 4:2:2, 4:2:0, and 4:0:0 chroma subsampling can be decoded by the MaeveX 6152 decoder.

Appliance overview



Rack mountable. Ultra quiet operation.

Support up to two 6152 decoder appliances from a single U of rack space, housed in a ½ rack width. Place the appliance on the desktop, workstation, or rack, and it's ready to use.

And its whisper-quiet operation means that MaeveX is made for control rooms, operation centers, and other critical environments that require a noise level of 25 dB and less.

Technical specifications

Product		Maevox 6152 quad 4K decoder
Part numbers		• MVX-D6152-42
Form factor		• Standalone appliance • Rack-mountable: 1U, 1/2 rack (horizontal)
Connectivity		
USB ports		• 1x USB 2.0 (front) • 1x USB 3.0 (back)
RS-232		• 1x for IP to RS-232 control
Performance		
Color space and chroma sub-sampling		• 4:2:0 (8-bit and 10-bit) • YUV 4:0:0, 4:2:0, 4:2:2, or 4:4:4 to RGB 4:4:4 8-bit
Video and audio processing		
HDCP support		• Only available between Maevox 61X2 encoders and Maevox 6152 decoder
Audio sampling frequency		• 32 kHz • 44.1 kHz • 48 kHz
Audio bitrates		• Up to 576 Kbps (AAC-LC) • Up to 288 Kbps (AAC-HEV1) • Up to 144 Kbps (AAC-HEV2)
Codec		
Encoder bitrates range		• 15 Mbps (default) • 50 Kbps to 120 Mbps (Maximum operational bitrate per stream is dependent on number of streams and features enabled.)
Encoding level		• Up to 5.2
Video decoding formats		• H.264/MPEG-4 Part 10 (AVC)
Decoding profiles		• Baseline Profile (BP) • Main Profile (MP) • High Profile (HiP) • High 10 Profile (Hi10P) • High 4:2:2 Profile (Hi422P) • High 4:4:4 Predictive Profile Separate Plane (Hi444PP) • CAVLC 4:4:4 intra (44)
Decoder bitrates range		• 50 Kbps to 120 Mbps (per stream)
Decoding		
Decoding capability		• 4:2:0* - 2x 3840x2160 @60Hz - 1x 4096x2160 @60Hz - 4x 3840x2160 @30Hz - 3x 4096x2160 @30Hz - 4x 1920x1080 @60Hz - 8x 1920x1080 @60Hz - 16x 1920x1080 @30Hz • 4:4:4* - 1x 3840x2160 @30Hz - 1x 4096x2160 @30Hz - 2x 1920x1080 @60Hz - 3x 1920x1080 @60Hz - 6x 1920x1080 @30Hz *Each decoding capability is independent of the others listed, and excludes any additional processing such as compositing, scaling, etc. Content can affect results. Contact Matrox for more details and decoding capability support.
Network		
Network standard		• 100/1,000 base-T ethernet • Auto speed • Half/full duplex
Routing scheme		• Unicast • Multicast
IP addressing		• IPv4 • DHCP (default) and static IP
Streaming protocols		• RTSP (TCP), RTCP & RTP (UDP) – all required • RTSP over TCP (interleaved) • SRT over UDP • MPEG2.TS over UDP
Command and control		• HTTPS over TCP • UPnP (discovery)
Security		• 802.1x (EAP-TLS) support

Physical		Maevox 6152 quad 4K decoder
Product dimensions		8.53 (L) x 7.52 (W) x 1.68 (H) inches 21.7 (L) x 19.1 (W) x 4.3 (H) cm
Unit weight		- Device only ~1.5 kg - With accessories and packaging ~3 kg
Noise emission		~25 dB at full decode capacity
Additional features		- Push-button controls: - Menu, enter, scroll forward, scroll back - Choose output, content, and zoom to full screen
Hardware & software		
Hardware included		- Maevox 6152 quad 4K decoder appliance 100-240 V a.c. in, 12 V d.c. out, 60W power supply - Power cords (US, EU, UK, Aus/NZ) - DIN4 locking connector
Accessories (sold separately)		Rack mount kit (RMK-19TR-A) - Rack mounting shelf (19 in/48.26 cm) - Pan head Phillips screws (4x 10-32 x 3/4 in) - Pan head Phillips screws (4x 12-24 x 3/4 in) - Flat head Phillips screws (6x M3 x 6 mm) NRG redundant power supply unit - Rack tray with one NRG RPSU pre-installed (part number: NRG-5-1DB) - Rack tray with two NRG RPSU pre-installed (part number: NRG-5-2DB)
Software		PowerStream Plus (free download)* - Compatible with Maevox 5100 Series and Maevox 6100 Series - Network discovery - Multi-encoding and recording management - Multi-protocol management - Frame rate management - Resolution control - Administrator and user credential management - Scaling management - SNMP support Maevox 6100 Series RS-232 API (free download)* - Control Maevox 6100 appliances via Crestron™, Kramer™, Extron™, or other tabletop touch-screen controllers. - Access basic commands including list, start/stop streaming and recording, and device reboot. Maevox SDK for Windows and Linux* - Full-access to entire feature set via SDK .NET 4.5.1 or higher, standalone library and Mono 5.2 or higher for Linux Maevox REST API* - Maevox 6100 Series REST API - Available for lower-level development Maevox 6100 Series Control Module for Crestron - Crestron module to expand existing controlled environments * Contact Matrox for more details.
Environmental		
Power consumption		45W
General		
Supported operating systems (software)		- Windows Server 2022 - Windows Server 2019 - Windows 11 and Windows 10
EMC/EMI device class		Class A
EMC/EMI compliance		CE (EU), FCC (US), ICES-3 (Canada), KC (Korea), RCM (Aus/NZ)
Environmental compliance		China RoHS, EU RoHS, REACH, WEEE
Warranty		Two-year limited warranty with free online or telephone support