

Matrox® Vion – IP Video Gateway

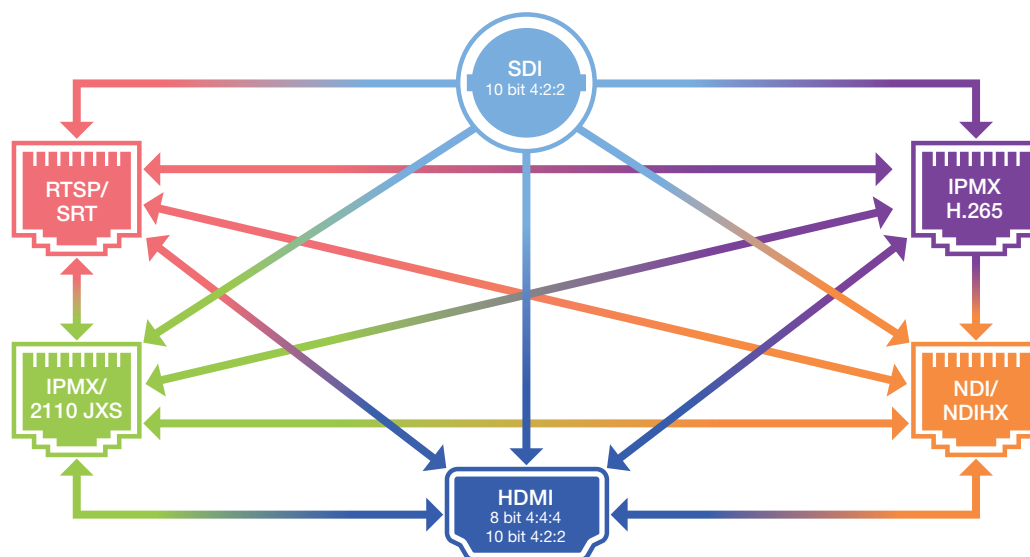
Your IP video bridge



Ideal for live production and collaboration and enabling new local and cloud IP-to-IP workflows, Vion is a compact, multi-channel 4K IP-to-IP video gateway for media conversion and processing, that expands routing options.

Built on next-generation, IT-inspired architecture, Vion provides flexible, low-latency multi-channel encoding, decoding, transcoding, and cross-conversion of IP video formats and codecs like H.264/HEVC, ST 2110-22, IPMX, JPEG-XS, and NDI. Vion supports popular protocols like SRT, RTSP, RTP, and MPEG-2 TS, for flexible routing workflows like transmitting NDI over SRT. Perfect for the most demanding AV applications, with support for 4:4:4 codecs and optional SDI/HDMI I/O, Vion preserves the fine details of desktop content, handles color space conversions, changes to streaming protocols and bitrates, and transmits multiple concurrent streams.

- Baseband and IP-to-IP cross-converter and transceiver
- NDI6, NDIHX, H.264, H.265, JXS, IPMX
- 4:4:4 8-bit and 4:2:2 10-bit support



Applications and Workflows.

- Media processing and conversion
- Content delivery
- Ground-to-cloud
- Cloud-to-ground
- Low bit-rate interconnect
- NDI bridging
- Production (local and cloud)
- Backhaul, Contribution & Distribution
- Video walls
- Control rooms

Key features and benefits.

- Conversion, transcoding, transmuxing, transrating, and transceiving compressed IP signals over IP networks
- 4:4:4 for desktop content, and fine detail and color-sensitive applications
- ST 2110-22 for broadcast applications, and IPMX and JPEG XS
- NDI media and protocol conversion, including NDI <-> SRT and NDI <-> IPMX
- Local preview (HDMI, audio)
- Multi-channel processing (deliver multiple concurrent streams, bi-directional processing)

Input baseband, IPMX, NDI, and SRT, and cross-convert streams concurrently with simultaneous output. Increase productivity and throughput by processing multiple inputs at the same time. Mix and match output formats and protocols to deliver the right content the right way.



Matrox Vion EX (back view)

Technical specifications

Product	Vion EX	Vion NX
Input	2 x 12G SDI 2 x HDMI 2.0.b 1 x 2.5 Gbps RJ45 1 x 1 Gbps RJ45 1 x Balanced audio	2x 1 Gbps RJ45
Output	2 x HDMI 2.0b 1 x 3.5 mm stereo audio	2 x HDMI 2.0b
Codecs	H.264, H.265, NDI/NDIHX, JPEG-XS	H.264, H.265, NDI/NDIHX, JPEG-XS
Protocols	ST 2110, IPMX, SRT, RTSP, MPEG2-TS	ST 2110, IPMX, SRT, RTSP, MPEG2-TS

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