

## FEATURES

- ▷ Real-time UHD 4K Video Decoding
- ▷ HEVC / MPEG-4 AVC UHD/4K Video Decoding
- ▷ 4:2:0 8-bit and 10-bit Decoding
- ▷ 1x BNC interface port for 12G-SDI input
- ▷ 1x SFP interface port for 12G-SDI input
- ▷ Video resolutions up to 2160p50/60
- ▷ IP Streaming and USB or Remote File Record
- ▷ 8-channels of Audio (4 stereo pairs)
- ▷ 7.1 AA C Audio
- ▷ CEA708 Closed Caption Support (option)
- ▷ Robust reception of Video & Audio
- ▷ Down Conversion of PCM/AC-3 Audio
- ▷ Conversion of TCP/SCTE 35 Messages to SDI/104
- ▷ ARQ error correction
- ▷ SRT, Zixi, and RIST Simple and Main Protocols
- ▷ Durable, Compact, cost-effective solution
- ▷ Compact 160mm x 125mm x 52mm chassis
- ▷ DC input up from 6 Volts to 24 Volts
- ▷ Low power
- ▷ User-friendly WEB-based remote configuration & control

## APPLICATIONS

- ▷ Professional Broadcast Video Monitoring
- ▷ Live Internet Streaming
- ▷ IPTV Streaming from CDNs

## Niagara UHD 4K Streaming Video Decoder



NIA 9205-DEC (Front Panel)

MultiDyne's NIA9205-DEC decoder is a reliable, high-performance solution for the decoding and transport of HD and UHD 4K video and audio signals for Internet streaming and broadcast applications.

HEVC and AVC 4:2:0 8/10-bit decoding, coupled with SRT or RIST Transport and Error correction, helps to maintain broadcast quality transport for a wide range of interoperability over nearly any IP network, including wireless networks and the Internet.

The NIA9205-DEC is MultiDyne's next generation professional line of advanced video decoders; a line of compact, powerful and cost-effective products designed for real-time decoding for Internet streaming and broadcast monitoring applications.

Niagara's advanced video transport couples broadcast and networking standards with patented error correction to take advantage of the inherent flexibility of IP and the Internet, providing Internet content providers an efficient, affordable and scalable solution for professional quality video over nearly any IP network.

The NIA9205-DEC provides HEVC and MPEG4-AVC video decompression, up to 2160p50/60 10-bit 4:2:0, along with support for up to 8 audio channels, multicasting, and multi-unicasting to allow cost-effective audio/video broadcast solutions.



NIA 9205-DEC (Rear Panel)

## TECHNICAL SPECIFICATIONS

### Video/Audio Interfaces

Video Output	1x BNC : 12G-SDI / 6G-SDI / 3G-SDI / HD-SDI (SMPTE 424M, 292M, 259M), 1x SFP : 12G-SDI / 6G-SDI / 3G-SDI / HD-SDI
Audio Output	SDI Embedded 8x Channel Audio

### Video

HEVC Profiles	Main, Main Intra, Main10, Main10 Intra
AVC (H.264) Profiles	Baseline, Main, High, High10, High, High10 Intra, High 4:2:2 Intra to Level 5.2
Chroma Sampling	4:2:0
Bit Depth	8-bit, 10-bit
Resolution	3840x2160, 1920x1080, 1280x720
Frame Rates	23.98/24/25/50/59.94/60p, 50/59.94i
Decoding Bitrate	500Kbps to 80 Mbps
Closed Captioning	CEA-708

### Audio

Audio Decoding	MPEG-1 Layer2, AAC-LC, Opus
Audio Format	Up to 4 stereo pairs
Sample Rate	48 KHz @ 16-bit, 20-bit encode
Bit Rate	16 Kbps (mono) to 384 Kbps (stereo)
Audio Channels	8 channel SDI embedded audio

### IP Encapsulation

IP Encapsulation	MPEG-2 TS over RTP/UDP/IP, UDP/IP, RTSP, HLS, RTMP, RTMPS, RTSP
IP Bitrate	160 Kbps to 40 Mbps
Error Correction	SRT, Zixi and RIST (main & simple)
Decryption	Protocols PSK (Zixi, RIST Main Profile & SRT)

### Storage & Network Interfaces

Networking ports	2x RJ45 10/100/1000 Gigabit Ethernet
Protocols	IEEE802.3 Ethernet RTP, IPv4, IPv6, TCP/UDP, IGMP v3
Connectors	1x USB3.0 Type-A & 1x USB3.0 Type-C
External storage	Flash & Hard drives via 1x USB3.0 Type-A & 1x USB3.0 Type-C connector

### Control, Management, and Monitoring

Type	10/100/1000 Base-T Gigabit Ethernet
Control	HTTPS Web Interface
Ethernet	2x RJ45
Console Port	1x USB2.0 MicroB Connector

### Physical and Power

Weight	.28 lbs / 1.3 Kg
Chassis	160 x 125 x 52 mm
Input Voltage	6-24 VDC
Max Input Current	0.84A@12VDC
Input Power	Maximum 10W

### Environmental

Operating Temp.	0°C - +50°C
Storage Temp.	-20°C - +70°C
Maximum Humidity	< 95% non condensing

### Compliance (Not yet tested)

CE	73/23/EEC (Low voltage equipment) 89/336/EEC (Electromagnetic compatibility)
Safety	IEC/EN 62368-1:2018
EMC	EN55022, EN55024, EN6100-3-2

## ORDERING INFORMATION

Part #	DESCRIPTION
NIA9205-DEC	Standalone AVC/HEVC HD, 3G, UHD, 4K Decoder supporting RIST, SRT, ZIXI, RTSP, HLS and RTMP protocols. Housed in V6 enclosure. For rack mounting, add RM-1RU-V6 kit.
RM-1RU-V6	Universal Rack Kit for mounting up to (3) VB Series V6 products in a 1 RU rack space.