

# NPX-4800-IPD32HQ

IP DECODER UNIT FOR netPIX 4800 SERIES



## ) PRODUCT DESCRIPTION

The further development of our latest generation IP streaming video decoder solution offers the next evolutionary step for the universal decoding of camera signals, encoders and DVRs over video IP networks. The IPD32HQ shares the same hardware platform with the preceding IPD32. Due to a further development of the hardware and the integration of the device, the new IPD32HQ is now capable of decoding 2x 8 MegaPixel and to represent these streams in native quality. This allows the decoding of high-resolution 4K/Ultra-HD streams or up to 16x HD native streams. Of course it is further possible to decode up to 32x D1 native streams. Thanks to the use of the well-proven IPD32 platform the new IPD32HQ is perfectly compatible with all NPX-4800 controller systems.

In contrast to software-based decoding solutions, the use of eyevis' external hardware architecture enables the display of up to 180 HD camera signals with an NPX-4800 system. In combination with the new eyeGATE-130 streaming solution it is now even possible to decode data images from remote locations or high resolution video signals directly over LAN/WAN. This leads to an enhanced integration of our wall management solution eyeCON version 5.1 and its MetaWall features and enables virtually unlimited numbers of input signals for the system.

Furthermore it is also possible to combine a variety of input cards, eg. analog video input cards or RGB / DVI cards, together with the IPD32 and IPD32HQ. This extends the existing possibilities of an extremely powerful controller by a large number of different input signals without the necessity to set up an additional system. Thanks to this functional system design it is easily possible to realise future upgrades without an exchange of the entire hardware. This allows the upgrade of existing installations with new technologies like H.264, 4K and eyeGATES.

Example of a system configuration:



NPX-4800 system with: 1x NPX-4800-IPD32HQ  
2x NPX-4800-EXP  
1x NPX-4800-G3.0  
(from top to bottom)

## ) INTEGRATION

The setup and configuration of each IPD32HQ and the channels can be easily done with the new eyeCON software version 5.1. All settings are performed in a central software without editing individual files etc..

- Support of thousands of cameras
- Support of eyevis' eyeGATE-130 H.264 streaming solution
- Dynamic virtual switching of each camera to one or more decoder channels
- Fast switching between cameras, independent from codec changes
- Dynamic use of available decoders or static mode
- Overview of all camera/encoder sources in a customizable list
- Editing of additional information for each camera
- Free labelling of each source and OSD support
- API for easy integration and support of many different video management software solutions

## ) IP NETWORK CONNECTION

The IPD32HQ solution features two 10/100/1000Mbit Base-T Ethernet interfaces. They can be used for independent networks or redundancy purposes.



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### KEY BENEFITS

Universal decoding solution for multiple codec formats and for systems from different camera/encoder manufacturers.

- Reduces costs for equipment, setup, and maintenance
- Two independent decoding processors of the latest generation per IPD32HQ
- Even more flexible and expandable (e.g. for future requirements)
- Supports H.264 decoding with 25/30 frames/s simultaneously on all decoder channels
- Decodes resolutions from CIF, D1, MegaPixel, up to 4K/Ultra-HD
- Supports special individual codecs and customer-specific systems

### SUPPORTED NETWORK PROTOCOLS

- IP
- UDP
- RTP (Real-Time Transport Protocol over Ethernet)
- RTSP (Real-Time Streaming Protocol)
- Multicast and Unicast for these protocols is also supported

### TECHNICAL SPECIFICATIONS

#### NETWORK SPECIFICATIONS

Network Ports:	2x Ethernet RJ-45 1000 Base-T Ports Auto-Sensing, Half/Full Duplex
Network Protocols:	TCP, UDP, IP, RTP, RTSP. Multicast and Unicast
IP-Addresses:	Possibility to define 2x independent IP-Addresses with the front panel controls of the IPD.

#### UNIVERSAL DECODING

Maximum Decoder Channels:	32x D1 native channels simultaneously per IPD32HQ 16x HD native channels simultaneously per IPD32HQ 8x Full HD native channels simultaneously per IPD32HQ 2x 4K/Ultra-HD native channels simultaneously per IPD32HQ
Frame Rates per Channel:	PAL (25 fps) or NTSC (30 fps)
Resolution Range per Channel:	720x540 (D1), 1280x720 (HD), 1920x1080 (FullHD), 3840x2160(4K/Ultra-HD)
Codec Formats:	Independent codec formats for each channel
Supported Codec formats:	MPEG2 ISO/IEC-13818 Profiles: ES, PS and TS / MPEG4 Part2 ISO/IEC-14496-2 Profiles: ASP, SP / MPEG4 (H.264) ISO/IEC-14496-10 (AVC) / Motion JPEG

#### HARDWARE SCALABILITY

No. of IPD32HQ Units per System:	Up to 16 IPD32HQ units can be integrated over the special High Speed Bus of the NPX-4800-Controller Series. - all Channels can be displayed without limitations simultaneously on the display wall - up to 256x HD native streams - up to 128x Full-HD native streams / eyeGATE-130-streams
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#### MECHANICAL

Dimensions: (WxHxD)	48.4 x 8.9 x 50.0 cm (incl. rack handles)
Weight:	10.5 kg

### DECODING OVERVIEW

The IPD decoder is equipped with two powerful processors which can handle up to 32 streams in D1 resolution quality and 25/30 frames/s. Thanks to the new hardware architecture 8 MegaPixel can be decoded which enables the processing of 4K/Ultra-HD streams.

### SUPPORTED MANUFACTURERS

- |                                  |                                    |
|----------------------------------|------------------------------------|
| ▪ Alstom Visor                   | ▪ Mobotix MXPEG                    |
| ▪ Avigilon Control Center (HDSM) | ▪ NetVuPanasonic MPEG4 / H264      |
| ▪ AXIS MPEG4 / H264              | ▪ Pelco MPEG / H264                |
| ▪ BOSCH MPEG4 / H264             | ▪ Seetec Software                  |
| ▪ Comerson                       | ▪ Siemens CX MPEG4                 |
| ▪ Funkwerk                       | ▪ SIQURA / Optelecom MPEG4 / H264  |
| ▪ GE                             | ▪ SONY MPEG4                       |
| ▪ Genetec Omnicast               | ▪ Sprinx Technologies MPEG4 / H264 |
| ▪ Haivision                      | ▪ Synectics                        |
| ▪ IndigoVision                   | ▪ Teracue MPEG2                    |
| ▪ Lanaccess MPEG4                | ▪ Vivotek MPEG4                    |
| ▪ Macnetix                       |                                    |

\*The list of integrated manufacturers is continuously updated. On request, integrations can be realised for specific projects.



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