



# NPX-4x00-IPD32

IP DECODER UNIT FOR netPIX 4x00 SERIES



## ) PRODUCT DESCRIPTION

The next generation of our IP streaming video decoding solution offers the latest technological hardware for universal decoding of cameras, encoders and DVRs over Video IP networks. The hardware platform has been developed specifically to meet the increasing demands of modern surveillance systems.

The new IPD32 offers four times more D1 channels and the possibility to decode up to 16 Full HD streams. Like the previous version, the open architecture of NPX-4x00 family allows the integration of the IPD32 decoder unit in all NPX-4x00 systems.

In contrast to software-based decoding solutions, the use of eyevis' external hardware architecture enables the display of up to 512 D1 camera signals with an NPX-4x00 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.

## ) INTEGRATION

The setup and configuration of each IPD32 and channels can be easily done with the new eyeCON software version 5. All settings are performed in a central software without editing individual files etc. In the setup area of the software, changes can even be made during transmissions.

- Support of thousands of cameras (**ONVIF Profile S compliance**)
- 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

## ) 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 IPD32
- Even more flexible and expandable 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 HD
- Supports special individual codecs and customer-specific systems

## ) EXAMPLE OF A SYSTEM SETUP



**NPX-4x00 System with:**  
*(from top to bottom)*  
 1x NPX-4x00-IPD32  
 2x NPX-4x00-EXP  
 1x NPX-4x00-ControllerUnit

## ) 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

## ) IP NETWORK CONNECTION

The IPD32 solution features two 10/100/1000Mbit Base-T Ethernet interfaces. They can be used for independent networks or redundancy purposes.



## NPX-4x00-IPD32

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### ) 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 und Unicast
IP Addresses:	Possibility to define two independent IP addresses with the front panel controls of the IPD.

#### UNIVERSAL DECODING

Maximum Decoder Channels:	32x D1 channels simultaneously per IPD32
Frame Rates per Channel:	PAL (25 fps) or NTSC (30 fps)
Resolution Range per Channel:	352x288 (CIF), 720x567 (D1), 1920x1080 (HD)
Maximum Channels per IPD32:	32x CIF or 32x D1 or 16x Full HD
Codec Formats:	Independent codecs 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)

#### HARDWARE SCALABILITY

Number of IPD32 Units per System:	Up to 16 IPD32 units can be integrated over the special High Speed BUS in the NPX-4x00-Controller Series. - all Channels can be displayed without limitations simultaneously on the display wall. - up to 512x D1 streams - up to 256x HD streams
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#### MECHANICAL

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

#### ELECTRICAL

Input Voltage:	ca. 300 Watt (typ.)
Power Consumption:	2x 100-240 V, 50-60Hz (not redundant !)

#### ORDERING INFORMATION

Item Numbers::	18224 -> NPX-4800-IPD32-1 (for usage in an NPX-4800 Controller system environment) 20272 -> NPX-4900-IPD32-1 (for usage in an NPX-4900 Controller system environment)
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### ) DECODING OVERVIEW

The IPD32 decoder is equipped with two powerful processors which can handle up to 32 streams with a resolution in D1 quality and 25/30 frames/s. The new hardware architecture also enables the decoding of 16x Full HD streams per IPD32.



### ) SUPPORTED MANUFACTURERS\*

- Alstom Visor
- Avigilon Control Center (HDSM)
- AXIS MPEG4 / H264
- BOSCH MPEG4 / H264
- Comerson
- Funkwerk
- GE
- Genetec Omnicast
- Haivision
- IndigoVision
- Lanaccess MPEG4
- Macnetix
- Mobotix MXPEG
- NetVu
- **All ONVIF Profile-S compliant products**
- Panasonic MPEG4 / H264
- Pelco MPEG / H264
- Seetec Software
- Siemens CX MPEG4
- SIQURA / Optelecom MPEG4 / H264
- SONY MPEG4
- Sprinx Technologies MPEG4 / H264
- Synectics
- Teracue MPEG2
- Vivotek MPEG4

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



eyevis GmbH

Hundsschleestr. 23 • 72766 Reutlingen • Germany  
Phone: + 49 (0) 7121 43303 - 0 • Fax: + 49 (0) 7121 43303 - 22  
www.eyevis.de • info@eyevis.de

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