



) NPX4800-IPD32

IP Decoder Unit for netpix 4800 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 NPX4800 family allows the integration of the IPD32 decoder unit in all NPX4800 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 NPX4800 system. In conjunction with the new eyecon V5 software and its MetaWalls feature a virtually unlimited number of decoded streams are achieved.

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. The result is an extremely powerful controller with a huge number of different input signals, without requiring an additional system. This modular system design makes future expansions possible without problems, there is no need to replace the entire hardware of the system.

) INTEGRATION

The setup and configuration of each IPD8 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
-) 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 IPD32 solution features two 10/100/1000Mbit Base-T Ethernet interfaces. They can be used for independent networks or redundancy purposes.

) 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 4800 System with:
1x NPX4800-IPD32
2x NPX4800-EXP
1x NPX4800-G2
(from top to bottom)

) 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

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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 2x 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 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 NPX4800-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

) DECODING OVERVIEW

The IPD 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
-) 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.



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