) NPX4800-*IPD8*

) PRODUCT DESCRIPTION

eyevis' new IP streaming video decoding solution offers the next generation of universal decoding of IP streams from cameras, encoders and DVRs over video IP networks. This fully digital solution for the decoding of IP camera signals for surveillance systems provides a lot of benefits, such as the display of numerous camera signals on a display wall.

) INTEGRATION

The setup and configuration of each IPD8 and channels can be easily done with the eyecon software. All settings are performed by drag&drop without editing files etc. Changes during transmissions are also possible inside the setup configuration side.

) Support of thousands of cameras

) Dynamic virtual switching of each camera to a decoder channel

) Fast switching between cameras, also independent from codec changes

) Dynamic use of available decoders or static mode

) Overview of all camera/encoder sources in a customizable list

) Support for additional comments 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 per IPD8

) Fully digital solution with HD image quality

) Very flexible (upgradable for future requirements) and expandable

) Support for H.264 decoding with 25/30 frames/s on all decoder channels simultaneously

) Decodes resolutions from CIF, D1, MegaPixel up to HD

) Support for individual codecs and special customized integrations

) IP NETWORK CONNECTION

The IPD8 solution features two 10/100/1000Mbit Base-T Ethernet interfaces. They can be used for independent networks or redundancy purposes.

) CONFIGURATION

Through the open architecture of the NPX4800 family, the IPD solution can be used in all NPX4800 systems. It is possible to mix multiple inputs boards, e.g. analogue video input boards or RGB/DVI boards together with the IPD. The result is a very powerful controller with many different types of inputs, without using a second system. The IPD solution can also be used with more expansion chassis to decode more than hundred streams in one controller. Because of this advantage future upgrades become very easy without the necessity to exchange the entire hardware.

) EXAMPLE OF A SYSTEM SETUP

NPX 4800 System comprising: 1x NPX4800
2x NPX4800-*EXP*
1x NPX4800-*IPD8*
(From bottom to top)

) SUPPORTED NETWORK PROTOCOLS

) IP

) UDP

) RTP (Real-Time Protocol over Ethernet)

) RTSP (Real-Time Streaming Protocol)

) Multicast and Unicast for these protocols are also supported.

) NPX-4800-IPD8

) eyevis
PERFECT VISUAL SOLUTIONS

IP Decoder for netpix 4800 series

) 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 LCD panel on the front of the IPD.

) Universal Decoding Specifications

Maximum Decoder channels	8x D1 channels simultaneously per IPD
Frame rates per Channel	PAL (25 fps) or NTSC (30 fps)
Resolution range per channel	352x288 (CIF), 720x567 (D1), 1920x1080 (HD)
Maximum channels per IPD8	8x CIF or 8x D1 or 2x HD (or 4x scaled 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) MJPEG Motion JPEG

) Hardware Scalability

IPD8 per System	Up to 16 IPD 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 128x D1 Decoder Channels. - Up to 32x HD Decoder Channels. (Native) - Up to 64x HD Decoder Channels. (Scaled)

) Mechanical

Dimensions: (WxHxD)	44.5 x 4.4 x 26.4 cm (incl. rack handles)
Weight:	4.05 kgs

) DECODING OVERVIEW

The IPD decoder is equipped with two powerful processors which can handle up to 8 streams with a resolution in D1 quality and 25/30frames/s. Through the new hardware architecture also 8x H264 streams are possible in D1 quality per IPD. Up to 2x HD (or 4x scaled HD) or Megapixel resolutions streams are as well supported in 25/30fps.

) SUPPORTED MANUFACTURERS

Alstom Visor
ATEME MPEG4 / H264
Avigilon Control Center (HDSM)
AXIS MPEG4 / MJPEG / H264
BOSCH MPEG-4 / H264
Comerson
Genetec Omnicast
Indigovision
Lanacess MPEG4
Mobotix MXPEG
Magnetix
OptelecomMPEG4 / H264
Panasonic MPEG4 / H264
Pelco MPEG / H264
Seetec Software
Siemens CX MPEG4
SONY MPEG4
Sprinx Technologies MPEG4 / H264
Teracue MPEG2
Vivotek MPEG4

*) The list of integrated manufacturers is continuosly enlarged. On request integrations can be realised for specific projects.