

## ) **NPX 3x00-IPDB**

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



### **KEY BENEFITS**

- Universal decoding solution for multiple codec formats and for systems of different camera / encoder manufacturers.
- Reduces costs for equipments, setup, and maintenance
- Fully digital solution with high image quality and a low latency
- Very flexible (upgradable for future requirements) and expandable
- Real-time decoding
- Decodes resolutions from CIF, D1 up to MegaPixel

### **CONFIGURATIONS & SCALABILITY**

Through the open architecture of the NPX3x00 family, the IPDB board can be used in all NPX3000/3800 and NPX3800XE systems. It is possible to mix multiple inputs boards, e.g. analogue video input boards or RGB/DVI boards together with the IPDB board. The result is a very powerful controller with many different types of inputs, without using a second system. The IPDB board can also be used with more expansion chassis to decode hundreds of streams in one controller. Because of this advantage future upgrades become very easy without the necessity to exchange the entire hardware.

### **IP NETWORK CONNECTIONS**

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

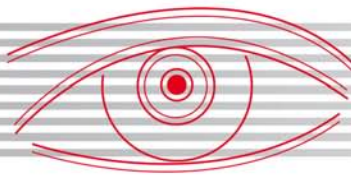
### **SUPPORTED NETWORK PROTOCOLS**

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

### **INTEGRATION**

The setup and configuration of each board and channel can be easily done with the eyecon software. All settings are performed by drag&drop without editing ini 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



# NPX 3x00-IPDB

NPX3x00 IP Streaming Decoder Board

## DECODING OVERVIEW

The Decoder board is equipped with a powerful processor which can handle up to 8 streams with a resolution in D1 Quality and 25frames/s. Through the new hardware architecture also 32 streams in CIF quality are possible per decoder card. Megapixel Resolutions are supported as well.

**One IPDB board can decode in real-time with 25/30 frames:**

- 32x CIF 352x288
- 8x D1 720x567
- 2x Megapixel 1280x1024

**Different codec formats\* can also be decoded simultaneously on the same decoder card, with no dependence on their resolution.**

- MPEG2 ISO/IEC-13818
- MPEG4 Part2 ISO/IEC-14496-2
- MPEG4 (H264) ISO/IEC-14496-10 (AVC)
- MJPEG Motion JPEG

\* List of Codec formats is continuously updated

## Technical specifications NPX-3x00-IPDB

### Network specifications

<b>Network Ports</b>	2x Ethernet RJ-45 1000 Base-T Ports Auto-sensing, Half/Full Duplex
<b>Redundancy</b>	Ports can be defined as redundancy ports
<b>Network Protocols</b>	TCP, UDP, IP, RTP, RTSP. Multicast and Unicast
<b>IP Addresses</b>	Possibility to define 2x independent IP-Addresses

### Universal Decoding specifications

<b>Maximum Decoder channels</b>	32 channels simultaneously per board
<b>Frame rates per Channel</b>	PAL (25 fps) or NTSC (30 fps)
<b>Resolution range per channel</b>	352x288 (CIF), 720x567 (D1), 1280x1024 (MP)
<b>Maximum channels per board</b>	32x CIF or 8x D1 or 2x MP
<b>Codec Formats</b>	Independent codecs for each channel
<b>Supported Codec formats</b>	MPEG2 ISO/IEC-13818 Profiles: ES, PS and TS MPEG4 Part2 ISO/IEC-14496-2 Profiles: ASP, SP MPEG4 (H264) ISO/IEC-14496-10 (AVC) MJPEG Motion JPEG
<b>Decoding Delay</b>	Decoding delay 200 ms with MPEG2 / 150ms with MPEG4

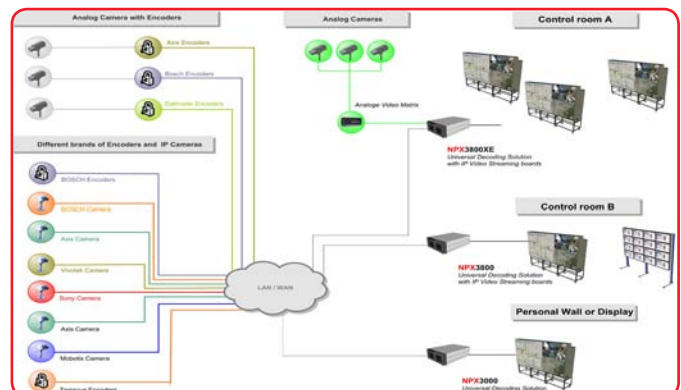
### Hardware & Scalability

<b>Boards per System</b>	Up to 16 boards can be integrated over the special HSIB BUS in the NPX-Controller
<b>Expansions</b>	Up to two additional expansions to support 8x IPDB per chassis

### Integrated encoder/camera manufactures:

- AXIS
- ACTI
- Ateme
- Bosch
- Commersion\*
- Dallmaier
- IndigoVision
- Lanaccess\*
- Mavix
- Mobotix
- NKF/Optelecom\*
- Siemens
- Terracue
- Truen
- Vivotek

\*) Planned Q2/2009. Other manufacturers will follow.



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