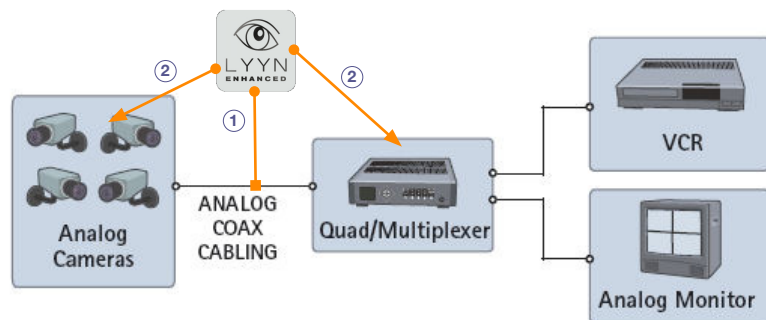


VISIBILITY ENHANCEMENT TECHNOLOGY

IMPLEMENTATION IN ANALOG AND IP NETWORK CCTV SYSTEMS

LYYN V.E.T. IN ANALOG CCTV SYSTEMS

There are two ways to implement LYYN V.E.T. in an analog CCTV system, depending on who you are. LYYN offers an off-the-shelf solution for integrators and customer users. It is also possible for equipment manufacturers to integrate the LYYN V.E.T. OEM platform in to their product portfolio.

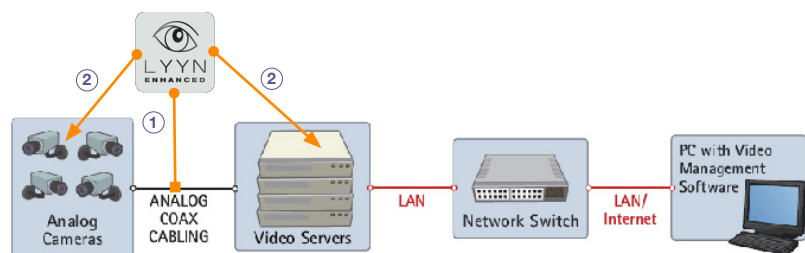


1. The simplest solution is to install a rack with LYYN R38 boards, one per each video channel. This is the way an integrator or end customer benefits from LYYN V.E.T. in an existing or new CCTV system.

2. A manufacturer of cameras or other video equipment can license LYYN V.E.T. for implementation in their products.

LYYN V.E.T. IN MIXED ANALOG AND IP NETWORK CCTV SYSTEMS

In a mixed network the best solution would be to implement LYYN V.E.T. in the analog part of the network.



1. The simplest solution is to install a rack with LYYN R38 boards, one per each video channel, in the same way you would do it in a pure analog CCTV system.

2. A manufacturer of cameras or video servers can license LYYN V.E.T. for implementation in their products.

LYYN V.E.T. is the solution to your visibility problems in fog, haze, smoke, dust, rain, low-light and many more situations.

LYYN is an R&D company working with image enhancement for improving visibility in different industries. Behind the company's technology lies many years of research in the human vision system and image technologies. LYYN offers products and solutions based on a technical platform, V.E.T., Visibility Enhancement Technology. The platform works with digital still images and video from common color cameras, in real time, but also in post processing of stored material. V.E.T. improves visibility in for instance fog, haze, snow, rain, dust, darkness, etc. as well as in sub sea and medical applications. For examples please visit www.lyyn.com.



We have a clearer vision

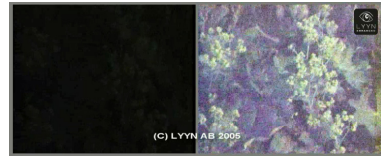
VISIBILITY ENHANCEMENT TECHNOLOGY IMPLEMENTATION IN ANALOG AND IP NETWORK CCTV SYSTEMS

LYYN V.E.T. IN IP NETWORK CCTV SYSTEMS

IP Network systems has many advantages in e.g. price/performance, system implementation, etc. However, because of the issue of information bandwidth the cameras usually perform some kind of image compression, e.g. Motion JPEG or MPEG4. These compression methods reduces image information without this being noticeable under normal circumstances. But, this also limits the available information for the lynnification process.



A misty morning on the road
- not so misty anymore



How beautiful is a garden in moon light?



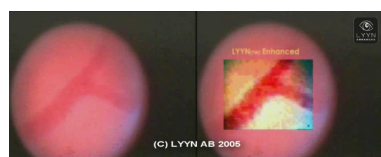
The murky waters of the Baltic Sea are suddenly more agreeable



Find the New Yorkers in the blizzard...



...or some soldiers in a sand storm in Iraq



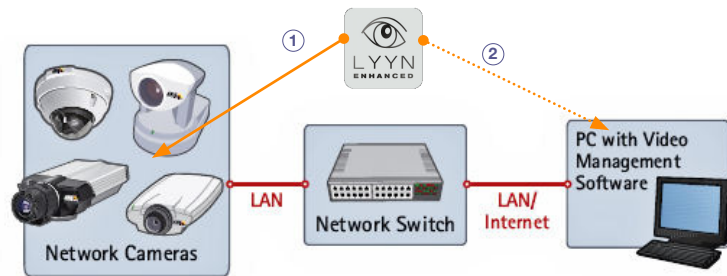
In large and in small, even as small as in a microscope, what ever your need is, LYYN V.E.T. provides a better view

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We have a clearer vision

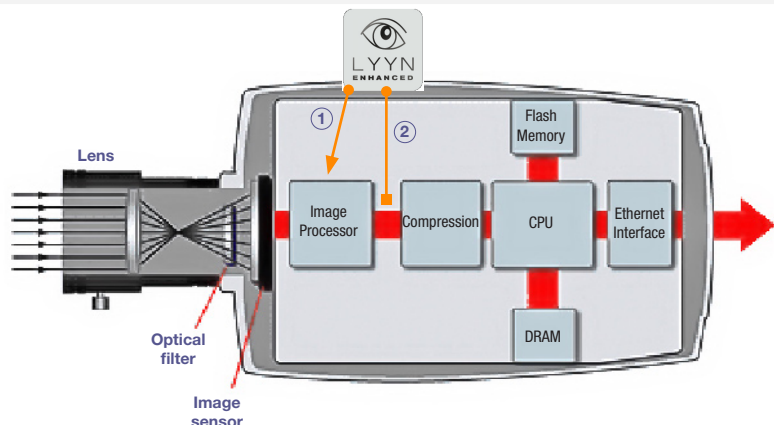


1. The best solution is for the camera manufacturer to implement LYYN V.E.T. in the camera, between the sensor and the compression component.

2. If video compression is minimal in the cameras and network it is also possible to implement a server solution with LYYN V.E.T., even though the lynnification process gives the best effect on an uncompressed video stream.

LYYN V.E.T. IN IP CAMERAS

IP cameras usually has an internal video compression chip to limit the needed bandwidth. To get the best result from the lynnification process it is important to implement LYYN V.E.T. before the compression. There are two available options shown in the image below. The result is also highly dependant on the resolution and overall image quality of the camera. Putting it simply; the better the camera, the more image data, the better the result from LYYN V.E.T.



1. The camera manufacturer can license a LYYN V.E.T. block to be implemented on the manufacturers own chip.

2. The camera manufacturer can implement a LYYN V.E.T. board in the camera, between the sensor and the compression component.