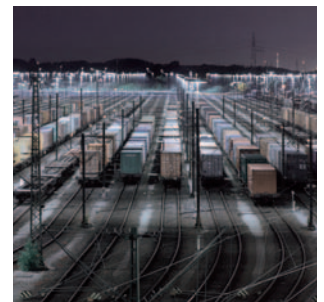
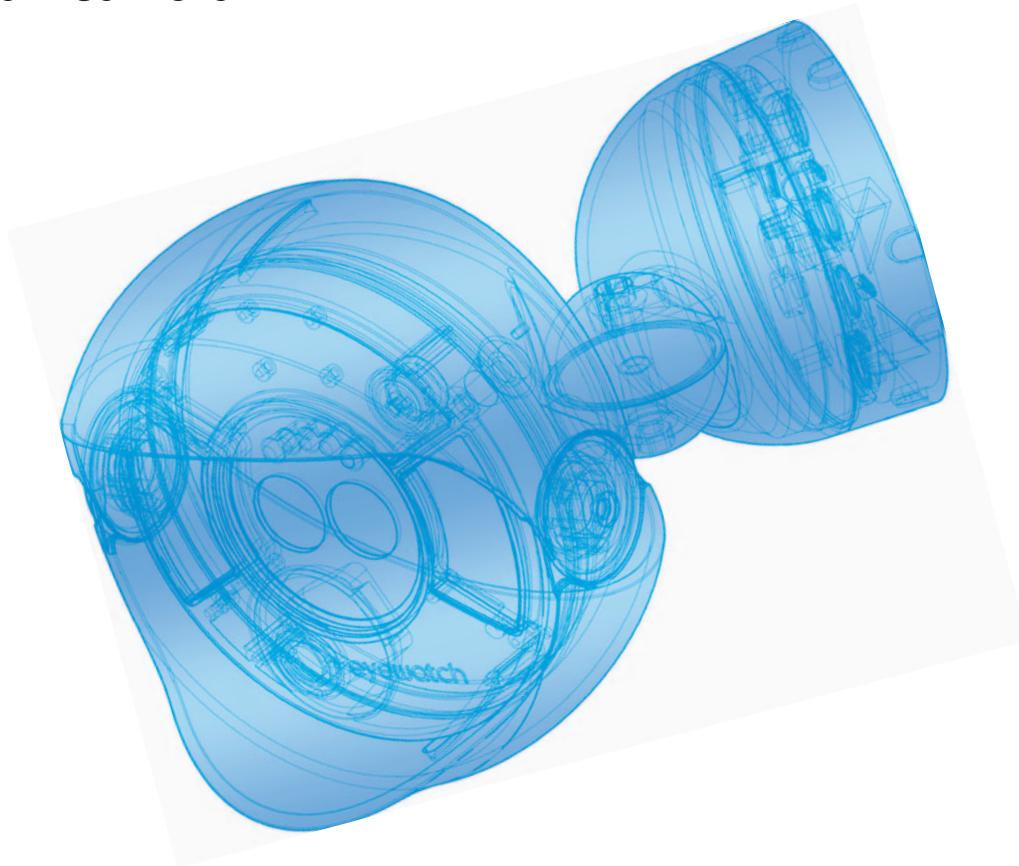




The smart camera



eyewatch – the idea

Traditional camera and video systems generate a vast amount of images within a very short time. Even intelligent video systems require central server solutions with additional infrastructure which are cost and service intensive.

eyewatch GmbH was founded with the aim of overcoming these obstacles and immediately began to develop

IP-based All-in-One cameras using standard IP technologies. They can be used both indoors and outdoors. The products are intelligent and support loadable software solutions for behaviour and pattern recognition allowing the camera to make decisions for when it should record in high resolution. From this idea originated the eyewatch product family:

eyeTWO – the smart camera

The eyeTWO network camera is equipped with two high-resolution 5-Megapixel image sensors for full indoor and outdoor use. The IP65 environmental protection as well as the cut down on moving parts such as shutter and motors make the system extremely robust and reliable. The eyeTWO has adjustable eyelids to provide further protection against sun light and the weather.

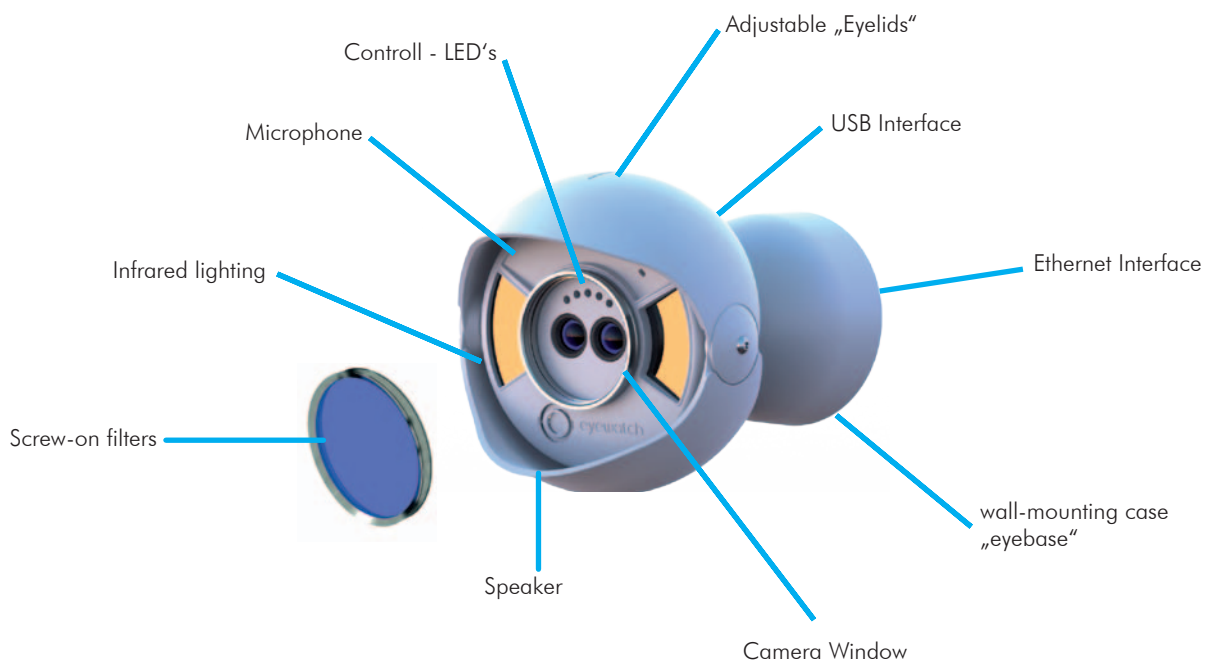
Using efficient and power-saving CPU's from the mobile device market. Eyewatch developed a FPGA solution coping with ideal image enhancement, image sharpening, lens distortion, and much more, meaning the camera CPU is not engaged with these tasks. It has enough power

reserves to run additional applications and to deliver recordings for best performance. Due to the integrated H.264 compression within the FPGA the scope and memory requirements are reduced significantly.

The eyeTWO camera is a so-called smart or edge camera, since it can act independently without a server. It works locally and can be upgraded in its functionality at any time by software.

Apps for function, design and behaviour recognition can be loaded directly into the camera. These applications are offered by eyewatch and certified business partners to enable a variety of applications for the eyewatch platform.

Technology



The eyewatch performance

Multiple Video-Streams

eyewatch developed a FPGA solution which can generate up to three independent streams for optimising your applications.

The Analysis-Stream delivers processed pictures for video-analysis and makes sure that objects are recognised reliably using the installed video analysis software.

The Live-Stream is used for play back and recording. It provides the FPGA H.264 encoded streams in the highest quality and resolution.

The Alert-Stream can record image sequences with metadata independently as well as pre and post alarm images using full 5-Megapixel resolution. Forensic evaluations of events are possible in the highest quality.

Intelligent, power-saving infrared-LED lighting, PoE+

The eyeTWO camera operates nearly all applications with only one cable due to a new lighting system (patent pending) which is integrated within the camera. This is only active when the camera opens its „eye“. During the remaining time the lights are switched off. This way you get brilliant light with minimum energy consumption.

The eyewatch cameras support the PoE+ standard (Power over Ethernet), which is necessary to integrate a powerful light source without using an additional external power supply.

Handling

No matter where you are, you can always access the data of the eyewatch camera. Individual web interfaces keep you in control of many platforms, including your web-enabled mobile phone. You stay informed at any time in real time.



Assembling / Installation

All eyewatch cameras have a built-in wall and ceiling mount. They can therefore be mounted elegantly on walls, ceilings and poles. With only three screws you can easily adjust the position. The especially designed joint system allows you to monitor every area the way you want. All cables are well protected against vandalism and are protected from the environment within the joint system.

Inspired by nature

The two mobile „eyelids“ of the eyeTWO cameras offer additional protection against environmental influences, e.g. sunlight, reflections, rain and hail. They prevent the concealment of the lens by snow or other environmental influences. That is why the camera can be used in places where other cameras struggle.



Integrated Microphone and Speaker/VoIP

The integrated microphone and speakers allow the use of the eyeTWO camera as telephone, intercom, paging unit and wire-tapping device. The camera can complement a separate intercom system or substitute it completely.

Hardware position sensor

The position sensor integrated into the eyeTWO camera registers independently every movement of the camera itself. Unrequested and unrecognised „turning away“ of the camera by unauthorised persons is a thing of the past. Every movement is reliably recognised by the camera and can release an alarm to supervision headquarters or by e-mail to the person in charge immediately.

Products



eyeTWO-PXA-270

The eyewatch eyeTWO-PXA-270 Network Camera is the entry-level camera of the eyewatch family and has two 5-megapixel image sensors for both colour & black and white which are selected automatically according to lighting conditions. Designed for all standard video surveillance tasks the model includes an optional built-in infrared LED light making it ideal to use as day & night camera.

With the help of software applications which can be implemented by loading them into the camera, it is possible to extend the standard functionality. Project-related applications can be realised in the camera, without an external server.

The eye - The measure of all things

Both camera models are available with different lenses. Telephoto as well as wide angle applications can be realised.

eyeTWO-ATX-510

The eyewatch eyeTWO ATX 510 network camera is the most efficient variation of the eyewatch camera product line. It is equipped with more than two 5-Megapixel image sensors (colour/black and white) and highly competitive Intel® ATOM® CPU. It offers a platform for more complicated analysis software as well as standard-video supervision tasks.

Due to the marvellous performance of the camera and the x86® compatibility, Software for behaviour and pattern recognition which was originally developed for server analysis can be adapted to the eyewatch platform and evaluated directly in the camera.

This flexibility offers the possibility to get access to many high-quality algorithms for behaviour and pattern recognition which already exist for PC systems. New developments can be integrated into the eyewatch camera any time.

eye BASE

On account of the simple form factor the eyebase wall case is an ideal connecting point for the CAT cable and RJ45 plugs. Further options include a storage battery which guarantees effective use of all functions of the camera during power failure and provides additional input and output controls.

With the use of VOIP = Voice over IP the sound quality can be improved using larger speakers and an additional amplifier.



eye-Control

eye-Control is an easy-to-use and powerful video management solution for the eyewatch family and compatible cameras. Besides the management of video material, it's essential task is to process and manage events. eye-Control is Windows® based and has a comprehensive range of functions and a

sophisticated user concept.

The intuitive interface allows the operator to monitor live situations and at the same time to process incoming alerts and their evaluations in the archives.



eyewatch GmbH - A company of the deister electronic group.

deister electronic is recognised as a leading RFID company bringing innovative solutions to a diverse range of markets worldwide. Within the security division we market products for access control, biometric verification, video technology, key management, manned guarding, personal security and vehicle identification. Within our industrial division we market products and systems for the supply chain, logistics, manufacturing, automation, waste management, vehicle locking, textile identification and timing systems for the sport of pigeon racing. Our technology experience encompasses all aspects of design from low level chip development to complex software algorithms for intelligent systems, through to mechatronics, the combination of mechanical, electronic and computer engineering.

For further information and contact details please visit us under: www.deister.com



5-Megapixel resolution

Software – Apps for upgrading

Intelligent Infrared lightning

All weather design

Easy assembly and implementation

Apps and other Features

Optimal image quality is obtained using two 5-Megapixel sensors, one for colour, the other for black & white. The image improvement and adaptations come from the eyewatch FPGA, an extremely efficient additional chip with lenses and pixel correction, scaler and more.

The eyewatch platform means special software applications and various functional extensions can be loaded directly into the camera for pattern and object recognition. Easy programming with x86[®] architecture by Intel[®] ATOM[®] CPU and Linux operating system.

Intelligent Infrared lightning

The integrated infrared LED head light improves the light conditions (up to 25 metres visual range). A minimum power consumption is obtained because it is ambient light controlled and synchronised with the image3 sensors.

Ideal housing concept

Excellent indoor and outdoor use due to the IP65 rating and integrated protective housing. All cables are well protected against vandalism and the weather within the joint system.

This special joint system also allows wall, ceiling and pole mount. With only three screws the camera can be set in any direction.

eyewatch - an ambitious, dynamic company

Founded in 2008, eyewatch GmbH is a German system supplier of „intelligent“ high-resolution IP video-security systems as well as video-management software. The products are distributed worldwide by authorised and qualified distributors and sales partners.

For further information and contact details, visit us at:

www.eyewatch-gmbh.com

