

Security in Focus.



# IXion

a class of its own

Cameras that look as sharp as their pictures

## High-performance CCD sensors for excellent picture quality

High resolution CCD sensors and high performance digital signal processors in the IXion cameras feature an extremely high picture performance and offer a maximum colour resolution of 550 TVL (SHR super high resolution) – for colourfast and contrast rich pictures!



### Super HAD CCD

Super HAD CCD sensors (super hole accumulated diode) offer a high sensitivity to light thanks to special constructed micro-lenses.

### EXview HAD CCD

EXview HAD CCD sensors offer a significantly enhanced sensitivity for low light applications.

### Double (Progressive) Scan CCD

Most CCD colour cameras, even of high quality, show very poor performance when they are working under strong backlight conditions. However, by using the Double Speed Sony CCD (Progressive Scan) and SS-2 chip set, as in the IX-4000 and IX-5000, this problem will be eliminated.

The Double Speed CCD reads both bright and dark areas separately at the same time and after that the different exposures will be combined to one image by the Wide Dynamic chip CX3151. Even though there may be very bright light or spotlights on the object, the picture will remain very sharp without any blooming and smear.

## Detailed and high-quality image capturing – for any security application

IXion cameras are used in a variety of applications and utilise the very latest camera technology improvements for an impressive picture quality, even in difficult light conditions. In combination with intelligent video motion detection systems the cameras offer excellent surveillance results – indoor and outdoor.

Depending on the actual requirements, IXion camera models offer different features and functions for any security application. The IXion range covers a wide range of use making it the ideal choice for ports, airports, logistic centres, public buildings, banks, car parks, garages and petrol stations.

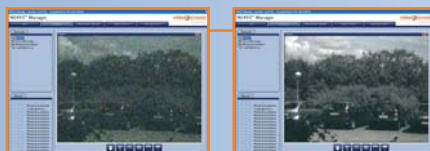


without WDR

with WDR

### WDR – wide dynamic range

In situations with difficult light conditions and strong backlight, the WDR function (wide dynamic range) ensures that relevant picture details within the area of interest are shown in detail and with rich contrast.



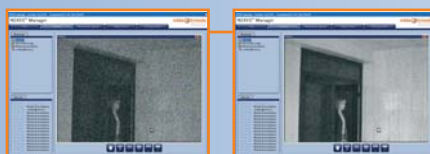
without SNR

with SNR

### SNR – super noise reduction

One example of our awareness to the needs of installers and end users relates to the SNR mode available on the IX-5000 camera. The SNR mode makes optimum use of a DVR's disk space by enabling smaller file sizes to be recorded without excessive loss of image quality. While it is sometimes useful to sharpen the captured image around its edges, it increases noise and movement in the image which is additional content the DVR will record. The SNR mode compensates for this, thereby balancing the needs of the end user for a sharp image with the technical constraints imposed on image capture by the DVR.

- reduced interference in difficult lighting situations without IR light
- enhanced sensitivity to light
- no after-image effects in moving picture scenes
- lower data volume in network applications
- significantly reduced storage requirements during constant recording



without DSS

with DSS

### DSS – Digital Slow Shutter

A CCD sensor is typically using a shutter speed of 1/50<sup>th</sup> sec. and the image will be processed accordingly. The digital slow shutter (DSS) extends the effective exposure time of the CCD sensor. Thanks to the 80x or 128x frame sense-up mode the IX-4000 and IX-5000 cameras offer a dramatically improved sensitivity for applications with low light conditions.

### digital zoom

The IX-4000 and IX-5000 incorporate a digital zoom facility that can be remotely operated in situations where more picture details are required.

IXion – new standards in design, functionality and flexibility



**user-friendly, stylish design**

OSD buttons (where applicable) are discretely fitted beneath a blue cover on the camera side. All settings are easy and user-friendly. The auto iris lens connector is located on the camera side.



**backplane of IX-1000/IX-3000**

- lens selection switch
- DC level adjustment
- function selection
- BNC video output
- power input terminal

**Auto ICR – automatic removable IR cut filter**

The camera models IX-3000, IX-4000 and IX-5000 incorporate a so-called IR cut filter which will automatically move in or out in relation to the actual light conditions. This makes the cameras the obvious choice for any true day/night application. On the IX-4000 and IX-5000 the IR cut filter can be activated or deactivated via OSD, the video signal or an external (dry) contact.



**OSD – on screen display**

The user-friendly on screen menu of the IX-4000 and IX-5000 offers the possibility to manage the set-up via several buttons. Both installer and end user will benefit from a user-friendly and multifunctional set-up according to the individual requirements.



**VCM – VIN camera manager**

The comfortable VCM application software features remote configuration and control of the IX-4000 and IX-5000 via the integrated RS-485 / RS-232 interface.



**Privacy Masking (IX-4000 / IX-5000)**

Within the monitored areas special parts can be masked for data protection or privacy purposes. These picture parts are blanked out in the live picture and the recorded sequence.

IX-8000IR – complete camera for outdoor applications

IX-8000IR: the high-performance stylish camera system for outdoor applications.

The camera comes with a 3.8 - 9.5 mm DC vari-focal lens and offers a high resolution of 550 TVL (colour) along with a high sensitivity to light of 0.3 Lux / F1.3 (colour).

It incorporates a removable IR cut filter and 18 infrared LEDs that will be automatically switched on in relation to the actual light conditions (CDS sensor). The camera is ideal for applications where full colour surveillance is needed during the day and infrared monochrome operation during the night.

The IX-8000IR camera package comes with wall mount and sunshield.



## IX-Entry Line

### IX-1000L / IX-1000H

- 1/3" Super HAD CCD
- 550 TV-lines
- sensitivity to light < 0.3 Lux / F1.4
- backlight compensation (BLC, centre weighted)
- 12/24 V (dual) or 230 V/AC

## IX-Business Line

### IX-2000L / IX-2000H

- 1/3" EXview HAD CCD
- 480 TV-lines (colour)
- sensitivity to light < 0.01 Lux / F1.2
- backlight compensation (BLC, centre weighted)
- automatic colour cut function
- 12/24 V (dual) or 230 V/AC

### IX-3000L / IX-3000H

- 1/3" Super HAD CCD
- 550 TV-lines (colour); 570 TV-lines (b/w)
- sensitivity to light < 0.1 Lux / F1.4 (colour)
- TDN function by removable IR cut filter
- backlight compensation (BLC, centre weighted)
- 12/24 V (dual) or 230 V/AC

## IX-Professional Line

### IX-4000L / IX-4000H

- 1/3" Double (Progressive) Scan CCD
- 480 TV-lines (colour); 570 TV-lines (b/w)
- sensitivity to light < 0.01 Lux / F1.4 (colour)
- WDR (wide dynamic range) function
- TDN function by removable IR cut filter
- electronic zoom
- digital slow shutter (DSS), privacy zones, OSD
- 12/24 V (dual) or 230 V/AC

### IX-5000L

- 1/3" Double (Progressive) Scan CCD
- 550 TV-lines (colour); 570 TV-lines (b/w)
- sensitivity to light < 0.01 Lux / F1.4 (colour)
- WDR (wide dynamic range) function
- super noise reduction (SNR)
- TDN function by removable IR cut filter
- privacy zones, OSD, electronic zoom, motion detection
- 12/24 V (dual)

## IX-Outdoor Line

### IX-8000IR

- 1/3" Super HAD CCD
- 550 TV-lines resolution (colour)
- 3.8 - 9.5 mm DC vari-focal lens
- sensitivity to light 0.3 Lux / F1.3 (colour)
- TDN function by removable IR cut filter
- weatherproof (IP 67 rated)
- 18 integrated IR-LEDs with CDS sensor
- 12/24 V (dual)

#### Dual Power Support:

The camera models IX-1000 – IX-4000 support 12 V/DC / 24 V/AC or 230 V/AC power supply.

Design and performance in perfect combination with the IXion cameras – TFT-LCD monitors

- top picture quality and highest reliability
- flat and elegant design
- make your installations look modern and stylish



### PRO series

The PRO series are high-quality TFT-LCD monitors with a stylish metal frame.

- 17"/19" colour TFT-LCD monitor
- resolution of 1280 x 1024 pixels (SXGA), 500 TVL
- (F)BAS, S-Video and VGA input
- picture-in-picture feature
- integrated speaker
- contrast ratio 500:1 / 550:1
- response time < 8ms
- multi-norm PAL/NTSC
- incl. stand

### ECO series

The ECO series are attractively priced TFT-LCD monitors with a plastic frame.



- 17"/19" colour TFT-LCD monitor
- resolution of 1280 x 1024 pixels (SXGA), 500 TVL
- (F)BAS, S-Video and VGA input
- integrated speaker
- contrast ratio 500:1 / 550:1
- response time < 8ms
- multi-norm PAL/NTSC
- incl. stand