

# Product Information

## VIAREC



### Video Detection, Information, Analysis and Recording in One System

#### Product Data

- digital video sensor for outdoor applications
- analysis functions for direction-dependent object count, object behaviour, the route an object took, duration of stay measurement
- integrated statistics module with export function
- 1 video input
- optional expansion to up to 4 video inputs
- recording to required, optional internal hard disk
- up to 25 images / second
- remote evaluation via network browser



#### Description

**V**ia is Latin for: the way; and in the VIAREC system it also stands for video detection, information and analysis. The VIAREC system is a digital video sensor with integrated recording for the analysis of indoor and outdoor object movements.

**E**xtensive masking possibilities with additional selection for object size and speed in the video image allow a very targeted evaluation of events in the video image as well as very simple alarm triggering. The algorithms used allow a very certain detection even when used in difficult outdoor conditions. The system works with 3D CAD models for precisely adjusting the detection fields to the corresponding image detail.

**T**he VIAREC system is able to detect, analyse and document complex object behaviour. This makes it possible to use the system e.g. for counting objects that cross a marked line (counting line). For this the VIAREC system takes settings such as direction detection, object size and form, as well as object speed and pre-alarm fields into consideration in order to prevent multiple counts caused by motions on the counting line. The system is also able to calculate the stay time of objects at a specific position. Furthermore it is possible to document, directly in the video image, the route an object took.

This opens several fields of application, e.g. documentation of customer behaviour in shopping centres, analysis of culprit behaviour in alarm systems or a traffic census. An alarm software for time-controlled switching between two different program parameterisations (e.g. counting- and alarm operation) is also included.

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The video images are recorded on a required, optional hard disk (40, 80, 120 and 180 GB available) with a resolution of 384 x 288 pixels and a recording speed of 24 images / second. Depending on the surveillance situation this results in a recording length of approximately 4 to 8 weeks. Furthermore it is possible to backup recorded images on a network PC.

In the VIAREC system's statistics module information can also be requested as numeric output. This data will be presented graphically by the system.

The VIAREC can be operated via a network browser for a comfortable evaluation of system data. The following functions are available for this:

- image transmission
- image recording on the local PC
- replay of recorded images
- analysis via the statistics function with diagram generation for counting lines and trigger fields
- export of generated statistical diagrams and counting- respectively triggering data sets

The browser function makes remote evaluation of the system possible. Via data connection different systems can be evaluated from a central evaluation station. Data connection to the VIAREC system can be established either via LAN (respectively WAN e.g. via router) or directly via ISDN (option).

Video image display, system parameterisation and evaluation data display can also be carried out on a directly connected (S)VGA monitor.

All system reports are documented in a log. A password protection at the system prevents manipulation and unauthorised access.

## Options:

VIAREC/+1 for one additional camera channel

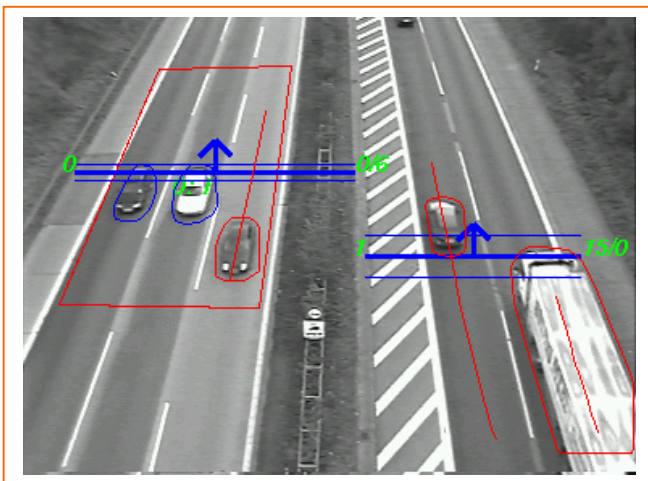
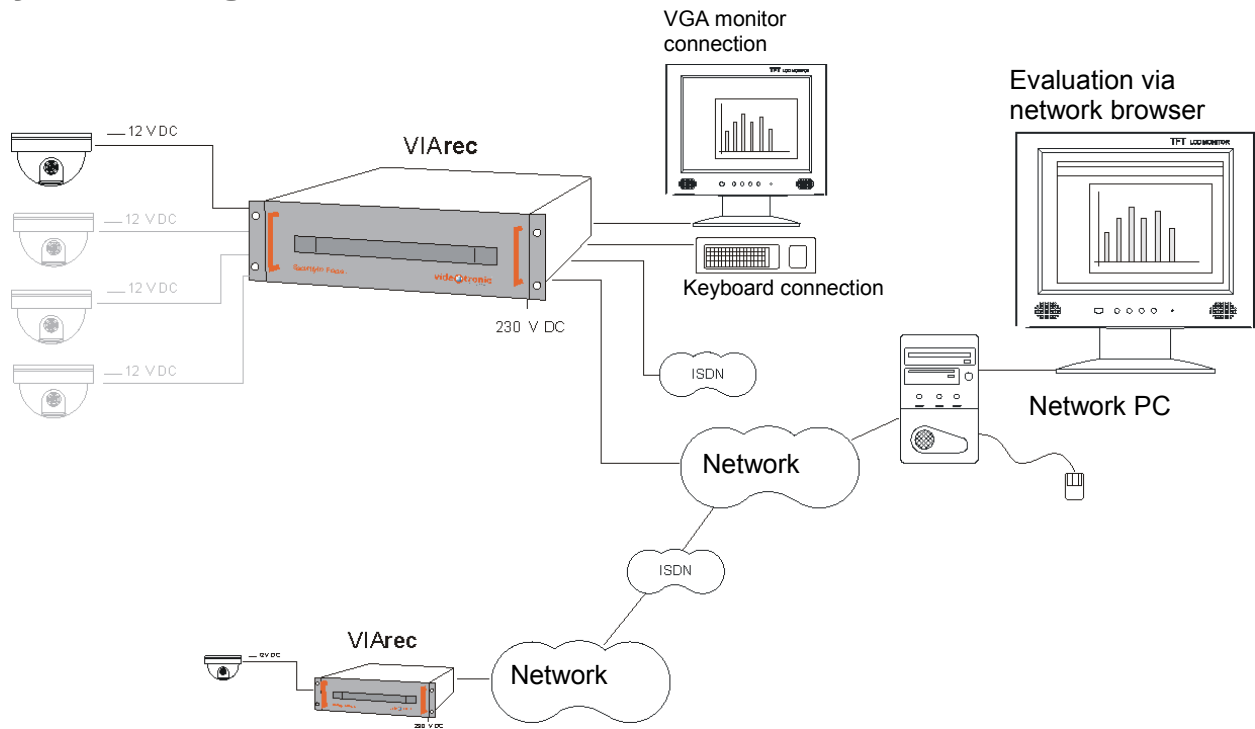
VIAREC/IO Module as data interface for incoming and outgoing contacts

ISDN card for browser-controlled remote operation of the system via ISDN

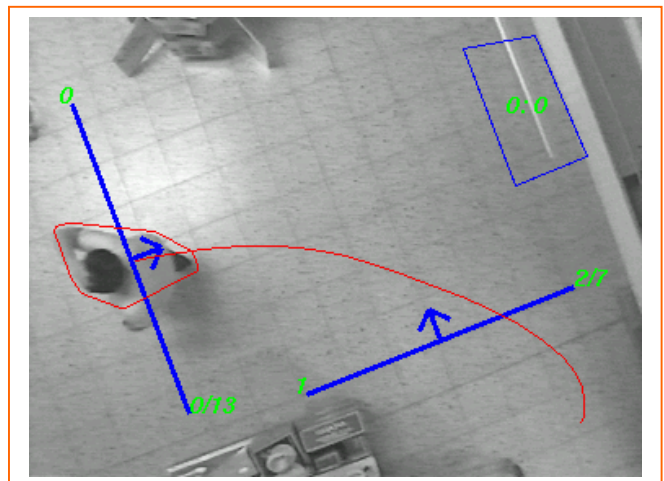
HD-XXGB hard disk

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## System Drawing



Object size / speed / direction



Counting line / display of stay time

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## Technical Specifications

Type	VIAREC
<b>Application</b>	digital video sensor with recording, information and analysis
<b>Video inputs</b>	1 x camera (FBAS) 4 x camera (FBAS) with 3 optional expansion cards (VIAREC/Erweiterung)
<b>Video outputs</b>	1 x monitor VGA for image evaluation, live image, analysis function, statistics function and system parameterisation; with web browser via network / ISDN
<b>Recording speed</b>	24 images / second for 1 channel operation 6 images / second (per camera) for 4 channel operation
<b>Resolution</b>	384 x 288 pixels
<b>Recording medium</b>	optional 40, 80, 120 or 180 GB hard disk
<b>Recording</b>	sensor-controlled
<b>Operation</b>	via connectable PC keyboard and with web browser over TCP/IP interface or ISDN
<b>Image size</b>	max. 110 k; depending on the image a compression of up to 95% is possible
<b>TCP/IP and ISDN interface</b>	image evaluation, live image, analysis function, statistics function and system parameterisation
<b>Digital video sensor</b>	extensive masking possibilities in the video image, targeted evaluation of events in the video image, detection even under difficult outdoor conditions, 3D CAD models for precisely adjusting the detection fields, picture-dependent method for detecting sabotage at the camera e.g. spraying paint on the camera lens, direction detection, detection of object size, form and speed
<b>Statistics functions</b>	detection, analysis and documentation of complex object behaviour, object count (counting line), calculation of the stay time of objects at a specific position, documentation of the way an object took
<b>Statistics output</b>	VGA monitor, network browser, PC printer, data export
<b>Scanning system</b>	CCIR, 625 lines, 50 Hz
<b>Video signal</b>	FBAS 1 Vpp at 75 Ohm
<b>Operating Voltage</b>	230 VAC
<b>EMI</b>	according to EN 50081-1, 55011 class B
<b>EMC</b>	according to EN 50082-2, 50204, EN 61000-4-2, -3, -4, -6 EN 50130-4
<b>Safety</b>	according to EN 60950, 60065
<b>IP rating</b>	IP40 / class III
<b>Weight</b>	13 kg
<b>Dimensions (W x D xH)</b>	423 x 172 x 390 mm
<b>Housing material</b>	sheet steel
<b>Colour</b>	grey / beige, silver coloured
<b>Operating Temperature</b>	-0° C to +60° C
<b>Connections</b>	
Video input	BNC sockets
<b>Accessories included</b>	operating instructions
<b>Options</b>	VIAREC/+1 for one additional camera channel VIAREC/IO Module as data interface for incoming and outgoing contacts ISDN card for browser-controlled remote evaluation of the system via ISDN HD-XXGB hard disk (40, 80, 120 and 180 GB currently available)

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Errors and omissions excepted.

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