

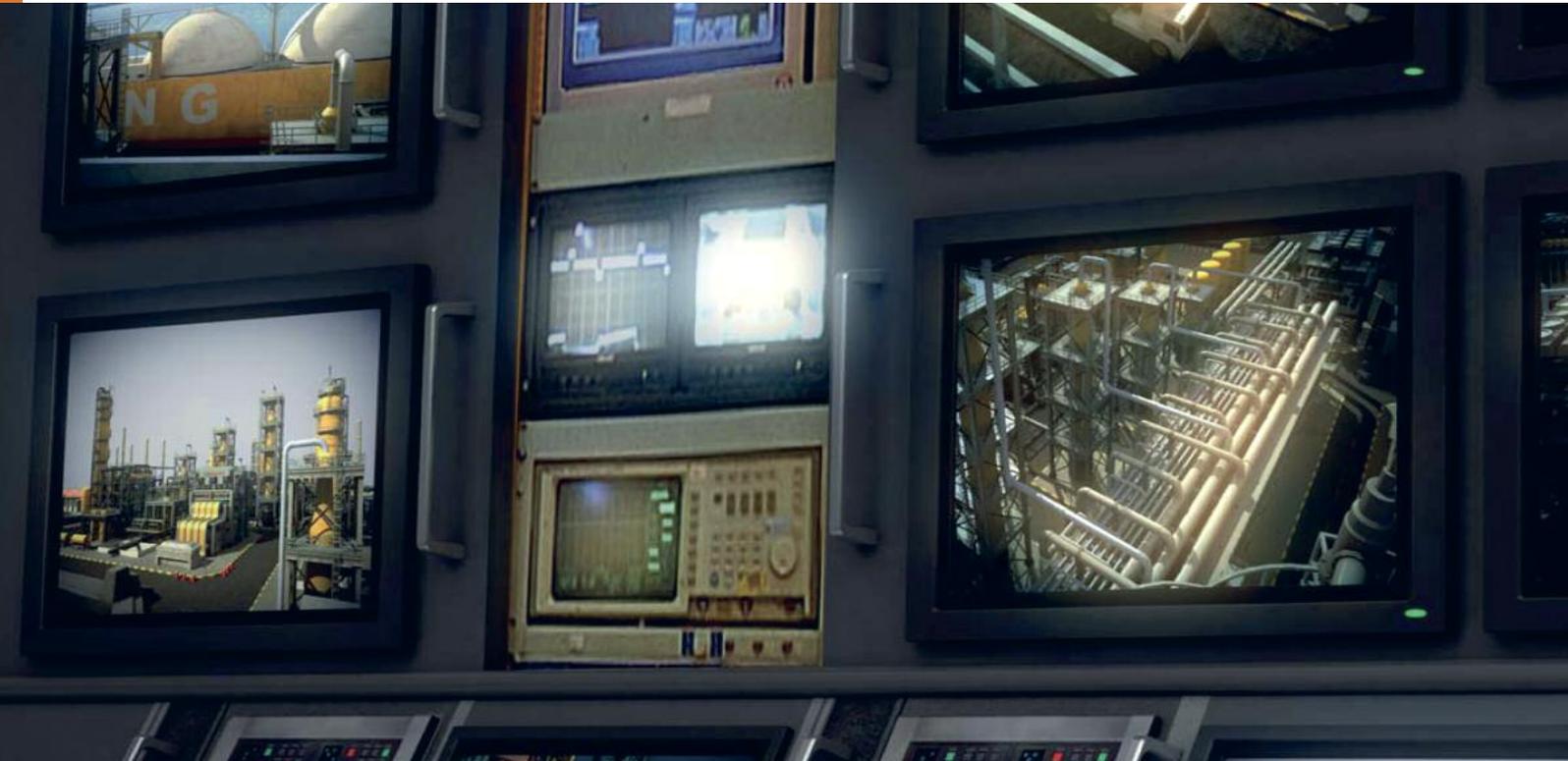


# Camera Solutions

System Solutions for All Areas



# Better safe than sorry



## Increased Safety and Security

The significance of camera system solutions for safety and security in marine, on-/offshore and industrial production environments is becoming more and more important. They allow remote monitoring of workstations and operational processes, and are used to increase safety and security in different areas. Our "automated monitoring systems", i.e. the combination of camera systems and high-performance software, provide remote safety and security monitoring in both safe and hazardous areas.

The world's smallest Ex-zone camera is ideally suited to inspect hard-to-reach areas; our state-of-the-art dome camera provides a complete 360° field of view; moreover, we offer a variety of cameras with many different features. R. STAHL Experience Camera Systems enable the supervising team to quickly identify and react to potential security issues or concerns and prevent emergency situations.

In case an emergency situation arises, the supervising team has a comprehensive overview and is able to take all the necessary steps to prevent the situation from escalating.

## Increased Efficiency

Operators benefit from the advantages of camera surveillance systems in their daily work. The system allows them to better supervise both workplace and environment, thus to better control the situation, and to work more efficiently and accurately. It also allows to pro-actively warn persons entering hazardous areas.



## Risk Reduction

Despite extensive preventive measures, accidents may occur or emergencies arise. Large plant machinery operated in small areas with many blind spots are a serious risk for both man and machines. A camera system by R. STAHL Experience provides an additional pair of eyes for staff members—irrespective of the machine or the environment they are working in—and help to minimize the chance of accident or injuries.

## Improved Ergonomics and Usability

In general, camera systems help to improve ergonomics and usability, and to reduce the number of operators working in hazardous and potentially explosive areas. Video images can be distributed over a network, thus allowing several operators with different tasks in different areas to simultaneously monitor and evaluate the situation in real-time. Remote decision-making between the operators is possible via visual feedback.

# Cameras CCTV Systems



## From Compact Cameras to Dome Cameras From Single Camera Components to Complex System Solutions

Different types of surveillance cameras and video recording systems are available to ensure optimum monitoring and highest safety and security in both hazardous and safe areas in your plant. The world's smallest Ex-zone camera monitors even the tightest corners; the 360° dome camera has been designed for panoramic surveillance applications, while our PTZ and zoom camera offers additional vertical pan and zoom functions. The world's first Ex-zone thermal imaging camera developed by R. STAHL Experience is ideal for leak monitoring and detection, for example on oil rigs.

All cameras have been designed for applications in potentially explosive areas, harsh environments and temperatures.

### Special Features

- Highest resistance to chemical and mechanical stresses
- Day/night video detection, thermal images, most diverse zoom functions
- Professional software with programmable positions and paths



### Specifications

INSTALLATION						IP
ZONE 0	ZONE 1	ZONE 2	ZONE 21	ZONE 22	NON-EX	IP68 OR IP69K
	✓	✓	✓	✓	✓	
TEMPERATURE RANGE						
	-40 °C UP TO +75 °C					

## Compact Camera EC-710

The EC-710 series offers the world's smallest camera for application in hazardous areas, and can be installed in otherwise unused corners and niches. It offers an excellent wide-angle viewing. With the robust design, the wide temperature range from -40°C up to +75°C, and the high IP degree of protection (IP68), it is the perfect tool for a wide range of applications.



## Dome Camera EC-750

With the 360° panoramic surveillance and the pan, tilt, and zoom functions, the EC-750 is the ideal surveillance camera for applications in hazardous areas. The 360° panoramic viewing angle, and the programmable data paths with vertical axis rotation allow an unique monitoring of your production plant. The high-grade optics provides optimum image quality.



## Zoom Camera EC-740

The EC-740 zoom camera is one of the most robust cameras in the world. With the IP69K degree of protection, and designed for harsh temperatures ranging from -40° up to +75°C, the camera is used worldwide. The zoom function and the 1/4 inch CCD imaging sensor provide clear, detailed high-quality images; the heated lens glass offers protection against condensation and ensures a clear view; available from 3 kg (6.61 lb) on, the zoom camera has a low net weight, and allows an easy mounting.



## PTZ Camera EC-740

With only 15.6 kg (34.39 lb, incl. 5 m cable), this Pan/Tilt/Zoom camera is one of the most light-weight PTZ cameras and can be much more easily mounted and installed than other cameras of a similar type. The wide temperature range of -40°C up to +75°C allows worldwide application of this camera. With the variety of zoom functions, the PTZ camera provides clear and sharp images, and is the ideal solution for close-up as well as large-area monitoring.



## Thermal Imaging Camera EC-800

Our latest thermal imaging camera is the perfect match to any existing CCTV system used to monitor hazardous areas, 24 hrs a day, seven days a week. With the thermal imaging technique of the EC-800, human beings, objects, or accidents can be detected in complete darkness and poor weather conditions, such as dust and fog. Human-activity detection is ensured for distances of up to 215 m (235.12 yd).



# Cameras CCTV Systeme



## Explosion-Protected Housing for Cameras

A great variety of cameras can be integrated in this housing certified for use in hazardous areas, so that already existing cameras can also be used in Ex-zones. More detailed information upon request.

### Equipment

- Heating
- Sun shield
- Wall mounting bracket

## Camera Software

### ISView

This video software allows visualization of real-time images from IP cameras and video servers with VAPIX protocol (Axis) and Moxa. The intuitive software has been optimized for touch screen operations. The large-size touch buttons allow an easy operation with gloves. It is therefore ideally suited for sending video images to HMIs installed in hazardous areas.

- Large-size touch buttons
- Very easy to use
- Single and quadruple display of video images
- Optimized for Open HMIs
- No training necessary



### SeeTec

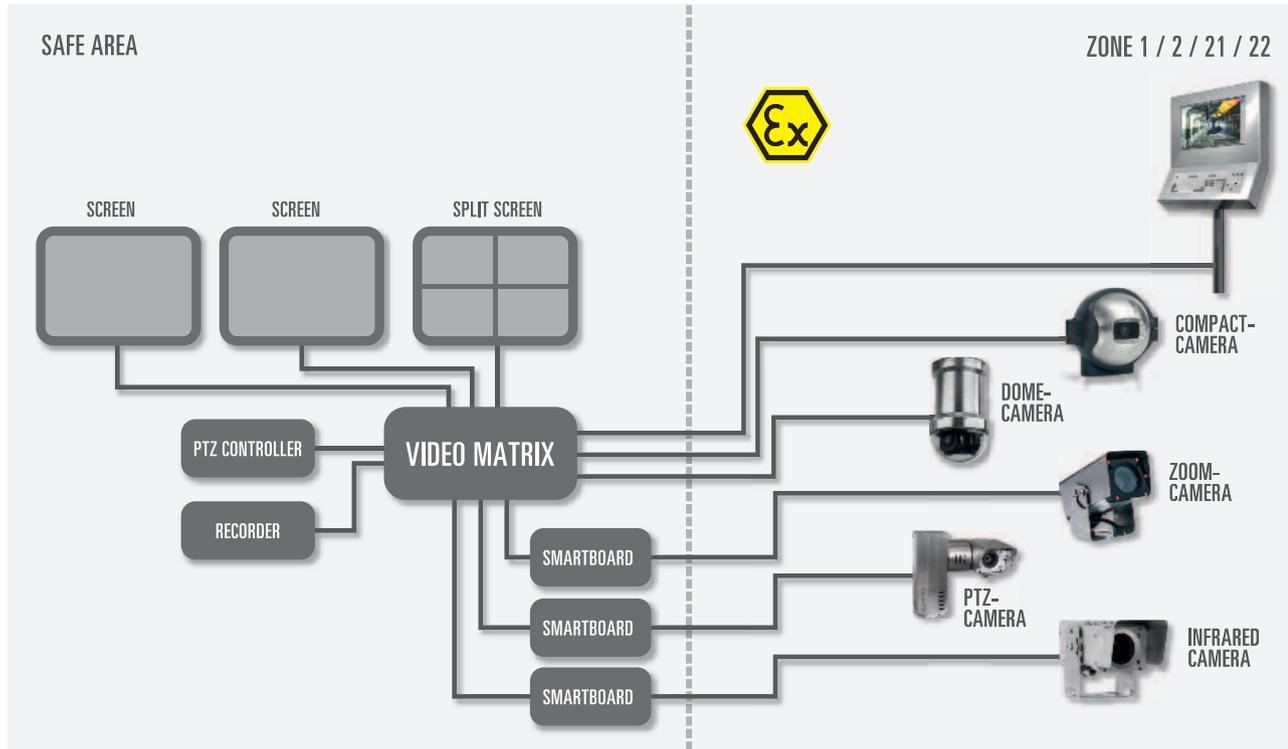
This video software is suitable for complex safety and security solutions: For small-sized installations with up to 5 cameras, to large-scale solutions with more than 1.000 cameras, and operation control of most different components. SeeTec allows flexible adaptation to existing system requirements, and ensures a higher performance and lower costs than standard video systems. Existing, analog components can be easily integrated in the network architecture. A variety of IP interfaces allows integration and operation of third-party systems.

- Video recording
- Alarm forwarding
- Multi-monitor operation
- Different user levels
- Integration of existing systems
- Available in many languages
- Suitable for small and large plants

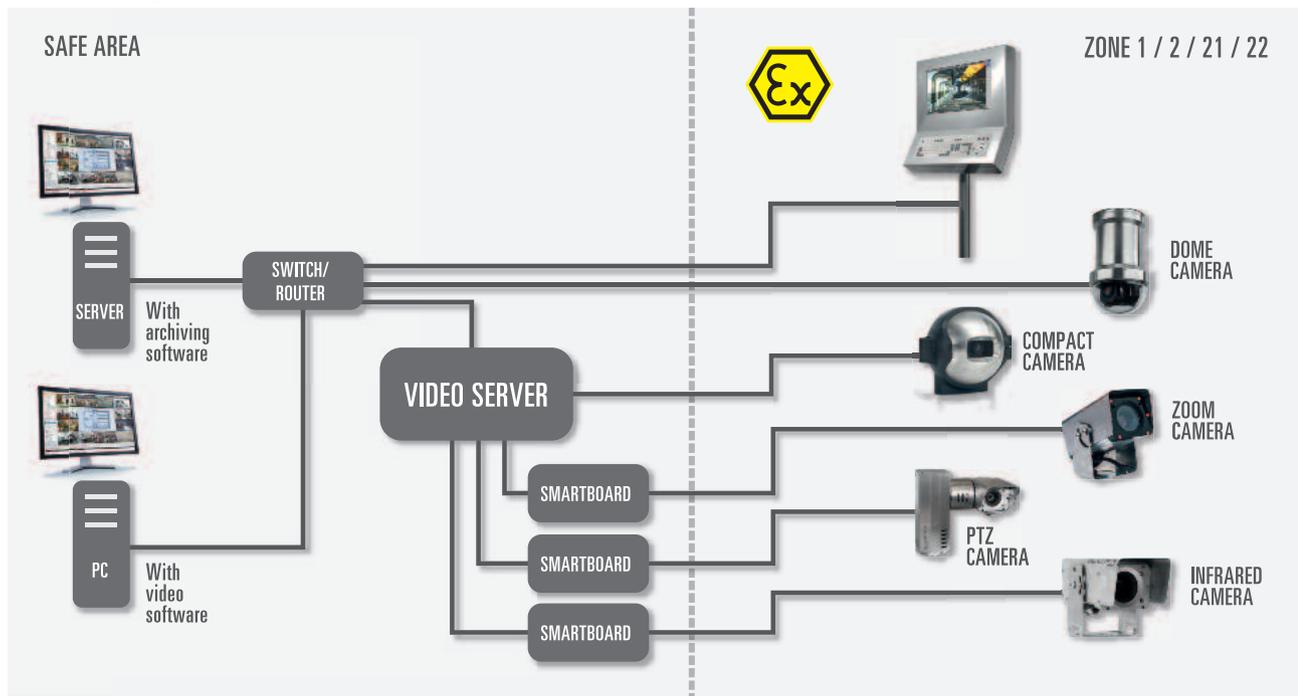


# Functional Principles

## Analog Camera System



## IP Camera System



R. STAHL Experience GmbH  
Im Gewerbegebiet Pesch 14  
D-50767 Cologne  
Phone: +49 221 59 808 -200  
Fax: +49 221 59 808 -260

 [www.stahl-experience.de](http://www.stahl-experience.de)



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