



THE STRONGEST LINK.

STAHL

CCTV SYSTEMS AND CAMERAS

For hazardous and industrial areas of production

R. STAHL: THE EXPLOSION PROTECTION EXPERT

A provider of products, systems and services in the field of explosion protection, R. STAHL is one of the leading companies worldwide in this area.

Our comprehensive product portfolio includes explosion-protected cameras, Human Machine Interfaces, switchgear, lighting systems, control units as well as complete explosion-protected system solutions.

With subsidiaries in more than twenty countries, R. STAHL can offer its customers across the globe customised sales and project management services for any requirements concerning explosion-protected products.

CONTENTS

TAILORED CCTV SOLUTIONS	04
OFFSHORE / ONSHORE	06
REFINERIES	10
CHEMICAL / PHARMACEUTICAL INDUSTRIES	12
HIGHLIGHTS CAMERAS	16
OVERVIEW CAMERAS	18
ACCESSORIES	20
SOFTWARE SEETEC CAYUGA	22
ONE-STOP SUPPLIER	24
R. STAHL WORLDWIDE	26



R. STAHL CAMERA SYSTEMS FOR HAZARDOUS AREAS



ONE-STOP CCTV SOLUTION PROVIDER

We develop CCTV system solutions tailored to the specific requirements of your plant to provide you with maximum surveillance coverage of all areas and processes in hazardous areas.

CCTV SYSTEMS FOR ANY APPLICATION

Our OPEN CCTV SYSTEM enables us to develop customised CCTV system solutions for hazardous and safe areas, tailored to the specific needs of your production environment – either completely new systems or as expansion/upgrade of existing ones.

CAMERAS AND SYSTEMS FOR EXTREME CONDITIONS

R. STAHL cameras can be used in extreme temperatures ranging from -55 °C to +65 °C / +75 °C (-67 °F to +149 °F / +167 °F), depending on the type of camera.



TAILORED CCTV SOLUTIONS



Anyone dealing with CCTV and camera systems will know that it is not a single camera that ensures better security, but a complete system solution.

R. STAHL Camera Systems specialises in system solutions.

We can make use of 80 years of experience in the field of explosion protection and many years spent acquiring CCTV expertise to design CCTV systems from a variety of components to meet your monitoring needs.

For this we have developed the OPEN CCTV SYSTEM, which allows us to combine those components that are ideally suitable for your needs. Ranging from the smallest compact camera to a high-

resolution thermal imaging camera, our portfolio meets almost every requirement in the field of monitoring and surveillance.

Be it video surveillance or leakage monitoring, external monitoring, flexible access from many points or redundant server structures – our OPEN CCTV SYSTEM contains a great many options.

Our cameras have an “open” design – they can communicate with (almost) all cameras and hardware components available, regardless of protocol.

This is the basis for our OPEN CCTV SYSTEM.



OUR SERVICES

TAILORED OPEN CCTV SYSTEM SOLUTIONS

ONE-STOP SUPPLIER FOR HAZARDOUS AREAS



R. STAHL CAMERA SYSTEMS

R. STAHL CAMERAS FOR HAZARDOUS AREAS



COMPACT CAMERAS
7 versions with different viewing angles
ATEX / IECEx / NEC / CEC / EAC Variants



AFZ CAMERAS
IP / Analog / ATEX / IECEx / NEC / CEC / PoE++ / FO Variants



PTZ CAMERAS
IP / Analog / ATEX / IECEx / NEC / CEC Variants



THERMAL CAMERAS
IP / Analog / ATEX / IECEx / NEC / CEC Variants



DOME CAMERAS
IP / Analog / ATEX / IECEx Variants

EXTERNAL / EXISTING EQUIPMENT



CLIENT WEB CLIENT



SERVER SWITCH



CAMERA JUNCTION BOX



VIDEO ENCODER JOYSTICK

VIDEO MANAGEMENT SOFTWARE

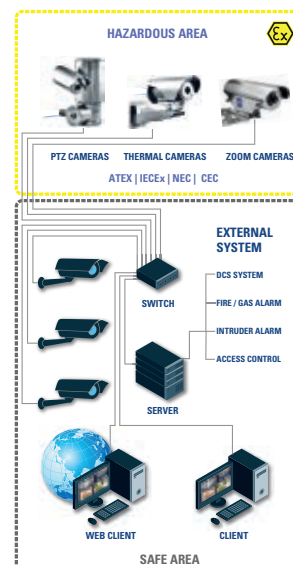


SeeTec



INDIVIDUAL SOFTWARE SOLUTIONS WITH ONVIF PROFILE S-COMPLIANT SOFTWARE

EXAMPLE OF A CCTV SYSTEM IN THE HAZARDOUS AREA



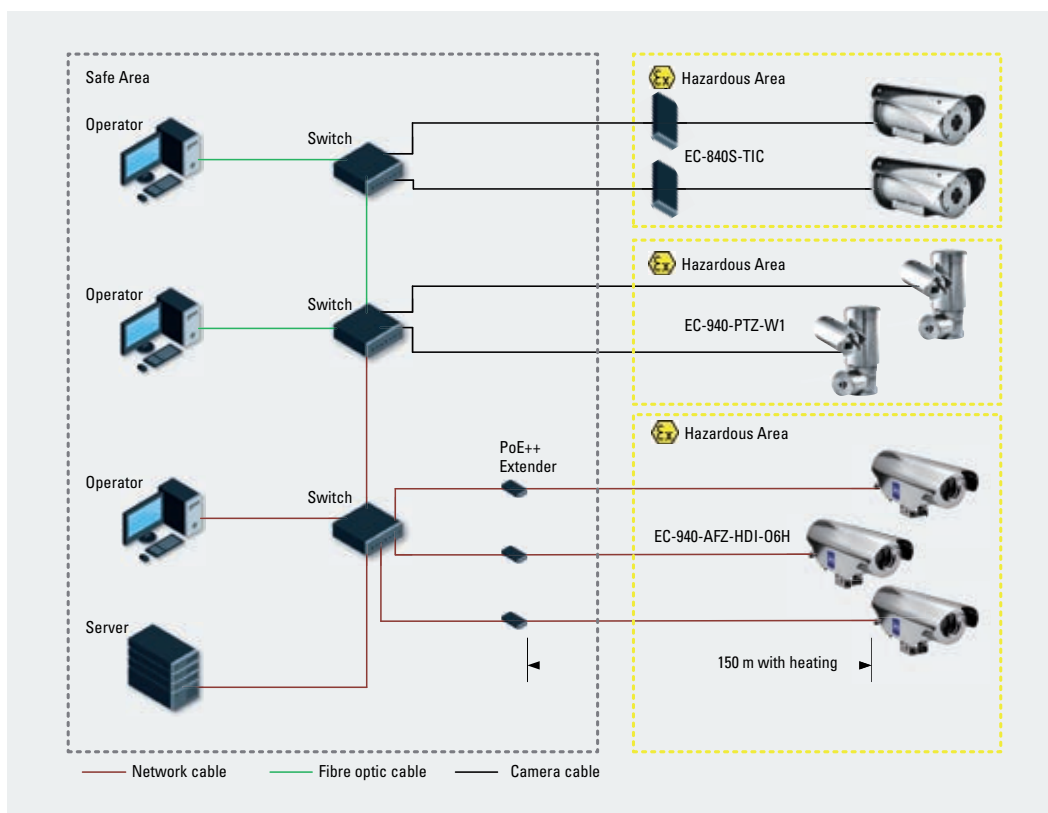
OFFSHORE / ONSHORE

OIL & GAS SYSTEM SOLUTIONS

Extreme ambient conditions, fluctuating temperatures and salt spray make monitoring on offshore and onshore drilling rigs difficult – R. STAHL cameras have been designed to operate reliably in these ambient conditions.



OFFSHORE DRILLING RIG REMOTE ACCESS FROM MULTIPLE LOCATIONS



This CCTV system is designed for great temperature fluctuations and the rough ambient conditions prevailing on a drilling rig, Zone 1.

The system requires a high-resolution image quality, remote surveillance from three different locations and central data storage.

CHALLENGE:

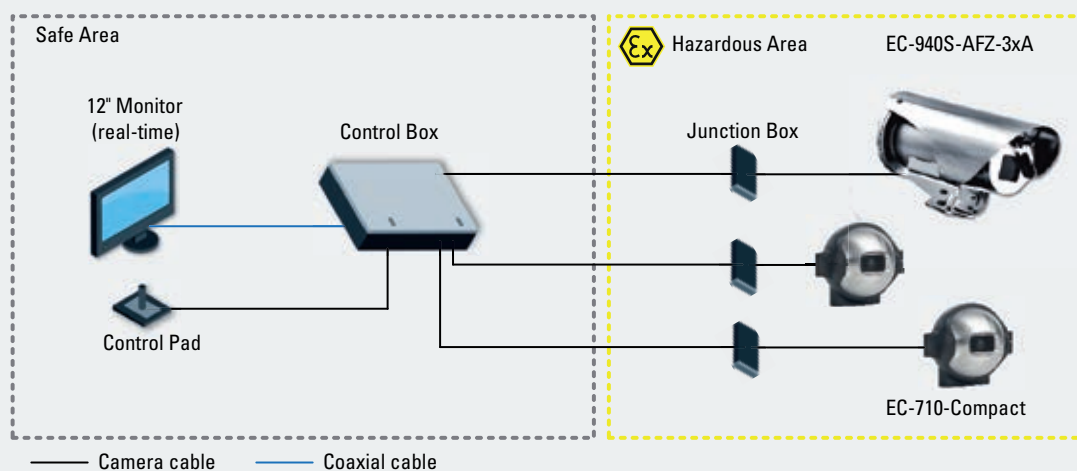
- CCTV system in Zone 1
- One monitoring option per operating unit
- Data transmission across wide distances
- Detailed camera surveillance

OUR SOLUTION:

- Combination of thermal imaging camera, PTZ and AFZ cameras in Full HD
- Via FO switch/cable to remote control stations
- Central data storage on one server
- AFZ connection via one network cable with PoE++

A CONSTANT EYE ON THE LOAD

Clear images with a real-time monitoring system. Our analog Ex-proof CCTV camera solution provides clear close-up views, when quick and correct decisions are required.



CHALLENGE:

- Clear images of the load
- Real-time monitoring in harsh environment, Zone 1
- Cameras for monitoring processes and loading operations and for detail monitoring

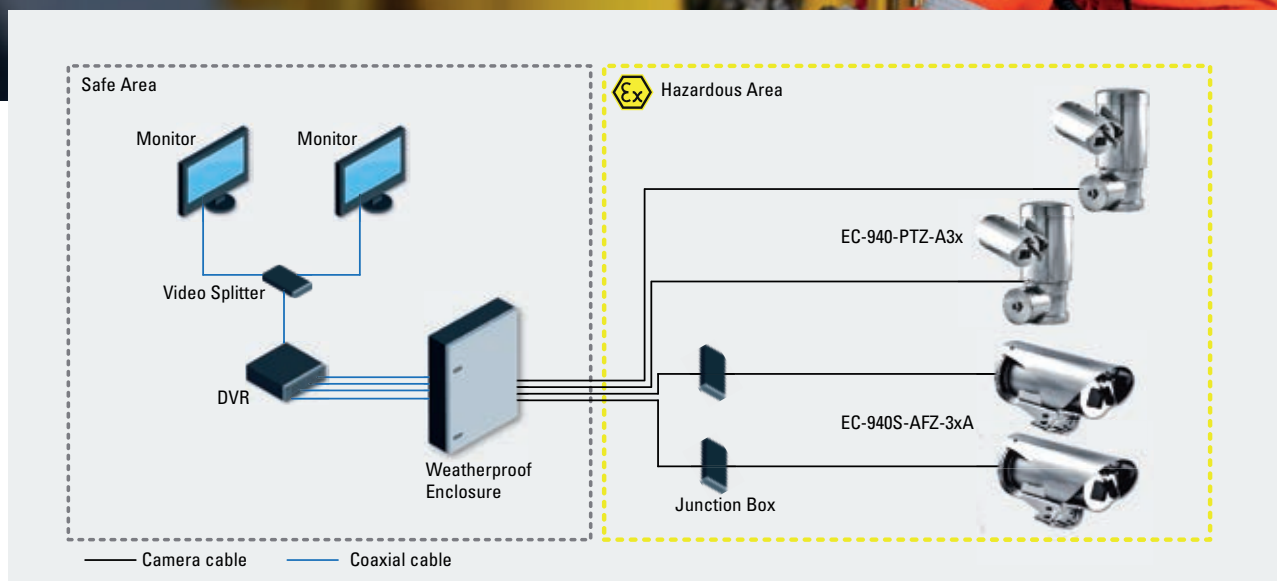
OUR SOLUTION:

- AFZ cameras for process monitoring
- Compact camera for detail monitoring
- Temperature range for the whole system (-40 °C to +65 °C / -40 °F to +149 °F)
- Real-time images on 12" monitor



REAL-TIME MONITORING IN ZONE 1 DURING DRILLING OPERATIONS

This system solution delivers detailed video images of all the ongoing drilling operations, thus providing enhanced control and preventing critical situations. Images are sent in real-time to the control room.



CHALLENGE:

- Monitoring of processes and drilling operations in Zone 1
- Real-time data transmission to three control monitors, one of which in Zone 1

OUR SOLUTION:

- AFZ and PTZ cameras for process monitoring (AFZ camera from -50 °C to +65 °C / -58 °F to +140 °F)
- Analog data transmission of real-time images
- Easy on-site installation



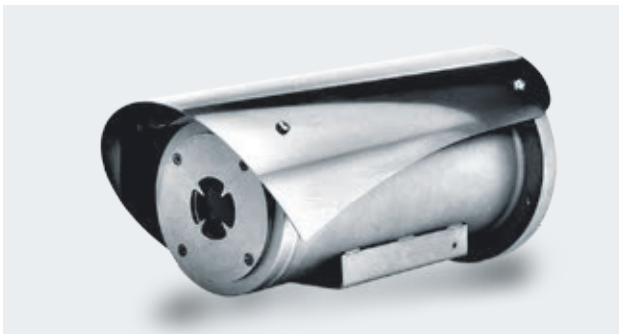
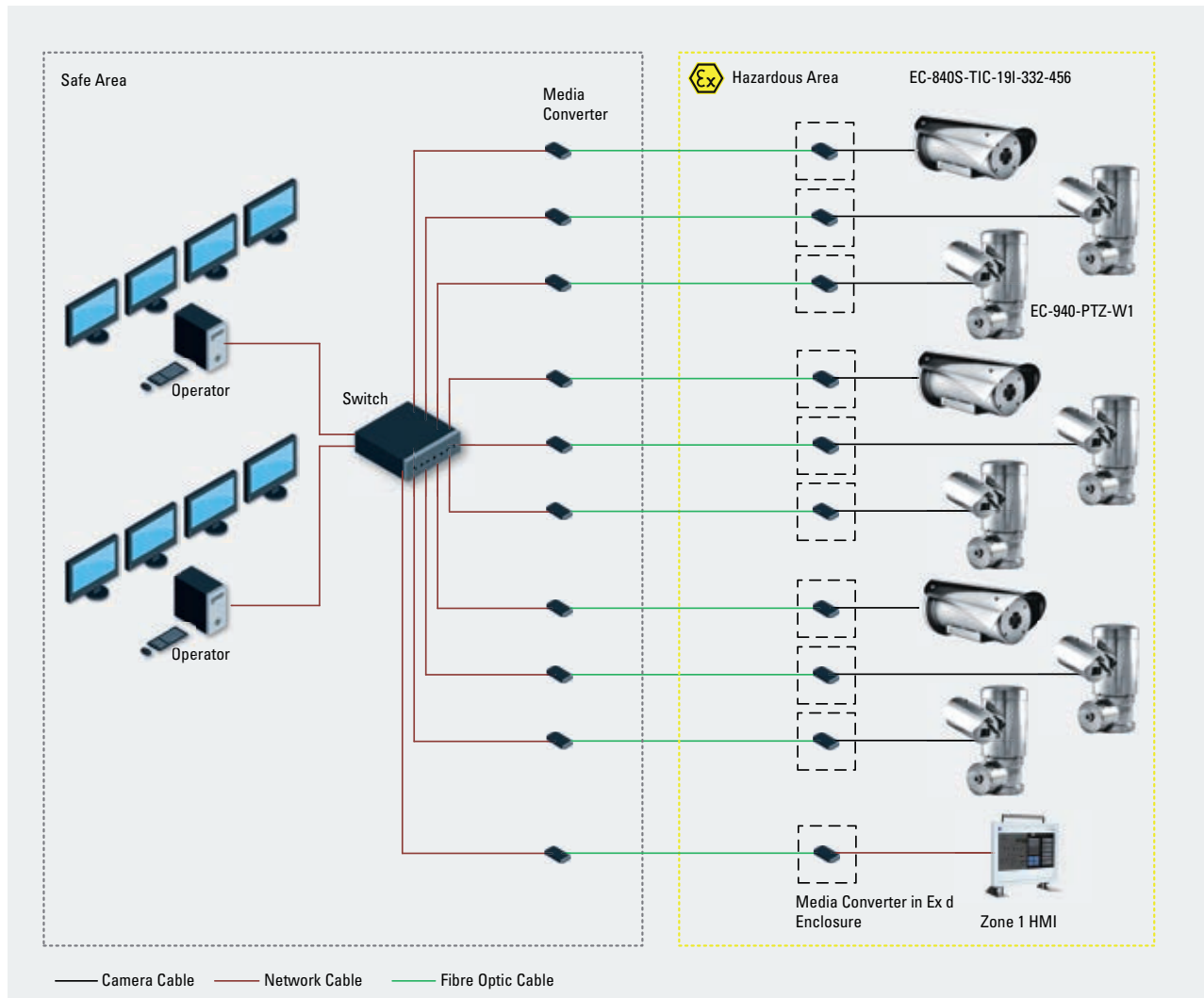
REFINERIES

We design complete video surveillance systems for reliable 24/7 operation in refineries, with guard tours and video management software.

Our open CCTV system concept allows seamless integration of Ex and non-Ex cameras, a combination of fire and gas alarm systems and an individual adaptation of the recording settings – as well as reliable data transmission across wide distances using fibre optic cables.



PROCESS AND DETAIL MONITORING IN ZONE 1 HAZARDOUS AREA WITH REDUNDANT CONTROL



This system is used to monitor process changes in a hazardous area using thermal imaging cameras and PTZ cameras.

Redundant control is provided at the control centre.

CHALLENGE:

- Redundant control via the network
- Data transmission across greater distances
- On-site control and operation in hazardous area

OUR SOLUTION:

- Thermal imaging (IP) and PTZ cameras (Full HD, IP)
- Data transmission via FO
- Redundant monitoring via switch

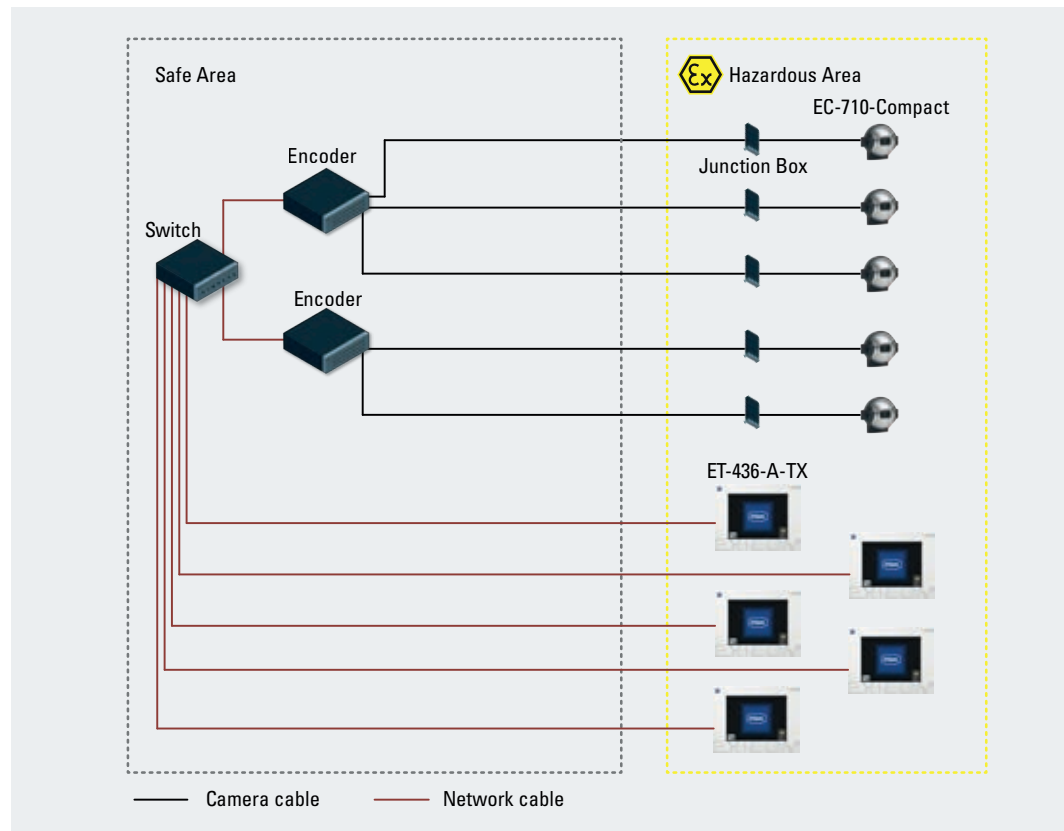
CHEMICAL / PHARMACEUTICAL INDUSTRIES

With our small, compact cameras that can withstand temperatures of up to +75 °C / +167 °F, we are a major supplier for batch reactors and batch operations.

These cameras can be used to constantly monitor all processes, particularly during the critical starting phase, so that, for example, foam generation is noticed instantly.



INSPECTION WINDOW MONITORING WITH REDUNDANT MONITORING IN HAZARDOUS AREA



Inspection window monitoring is a standard in chemical and pharmaceutical plants.

With this system solution, each batch reactor is monitored with the world's smallest compact camera and the images are transmitted in real time to the control room.

EXICOM HMIs are used for monitoring in the field, whilst parallel real-time monitoring is taking place at the control centre.

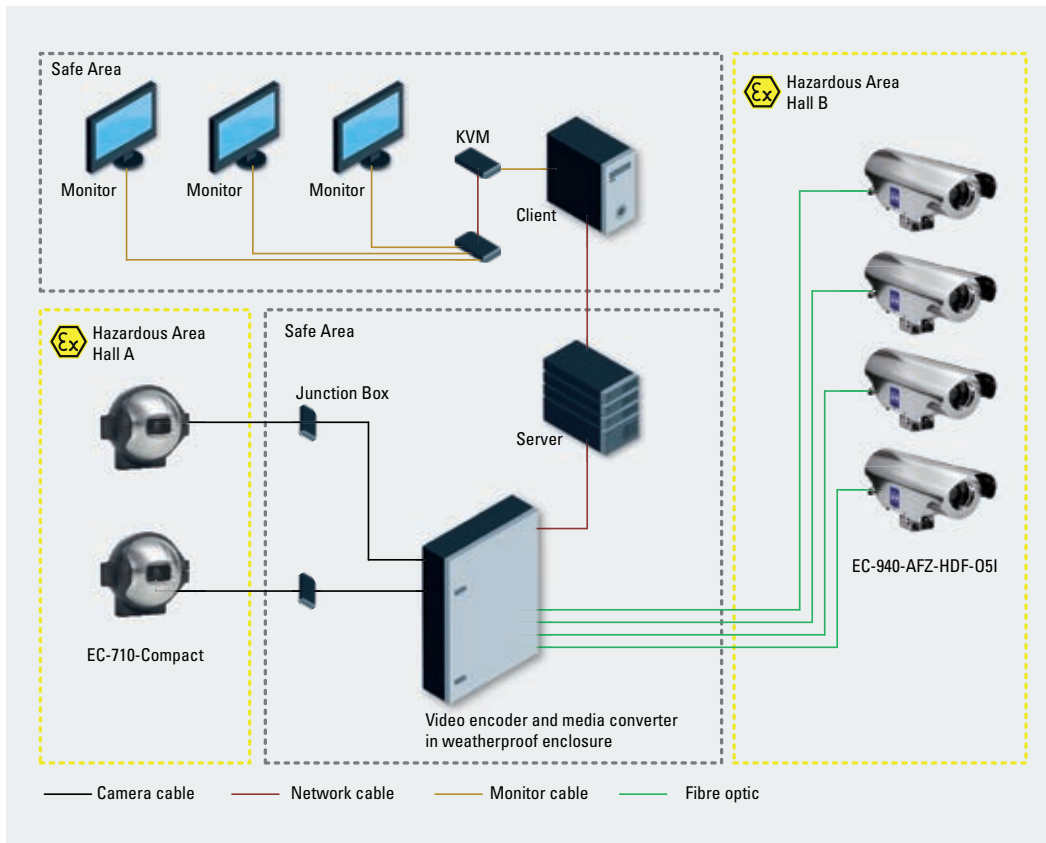
CHALLENGE:

- Inspection window monitoring, Zone 1
- Limited space
- Data transmission to control monitors in the field
- Explosion-protected HMIs

OUR SOLUTION:

- Compact cameras for inspection window monitoring at up to +75 °C / +167 °F
- With a diameter of 55 mm / 2.1" the world's smallest Ex-camera
- Installation of EXICOM HMIs in the field
- Special video surveillance software

INSPECTION WINDOW MONITORING IN TWO HAZARDOUS AREAS



Monitoring of the production area with zoom cameras in hall B, in combination with inspection window monitoring at the batch reactor in hall A, and visualisation in the CCR (Central Control Room) on several monitors.



CHALLENGE:

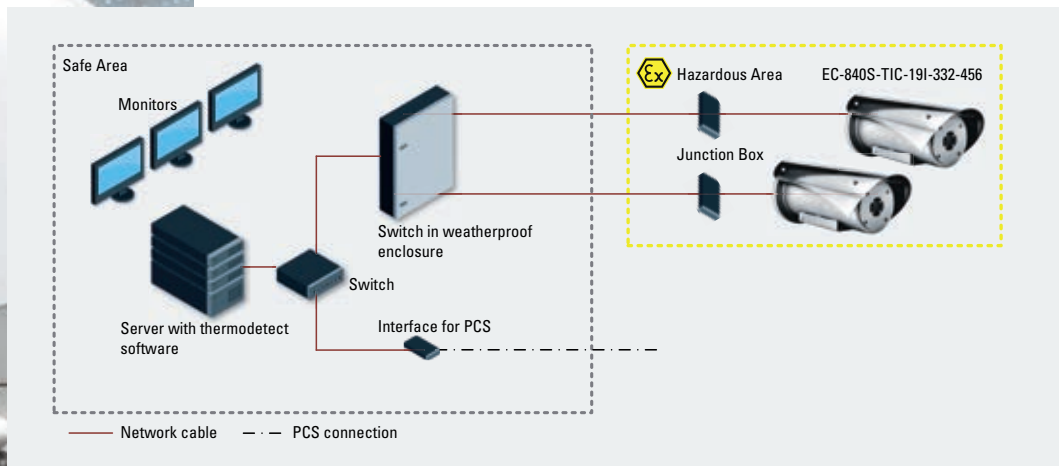
- Network CCTV system
- Video recording technology for tracking of incidents and faults
- Powerful video management system

OUR SOLUTION:

- Combination of AFZ and compact cameras in two hazardous areas
- IP network integration
- Video recording using SeeTec VMS



TEMPERATURE MONITORING DURING LOADING PROCESS



Leakages during loading must be spotted immediately, and the thermal imaging camera can address this task perfectly.

Our bespoke software identifies any changes in temperature and triggers an alarm in the PCS 7 process control system.



CHALLENGE:

- Monitoring of temperature during loading process
- Bespoke software recognising changes in temperature
- Parallel monitoring at several control stations

OUR SOLUTION:

- High-sensitivity thermal imaging cameras for hazardous areas
- Parallel control on network monitors
- Process control system interface
- Temperature monitoring software

CAMERAS FOR HAZARDOUS AREAS

MODERN TECHNOLOGY FOR EXTREME CONDITIONS

We offer a complete portfolio of explosion-protected cameras – from the world's smallest Ex-proof camera, Full HD IP and dome cameras to the high-sensitivity thermal imaging camera.



Compact Camera

EC-710



- Diameter only 55 mm / 2.2"
- 7 versions with different viewing angles
- -40 °C to +75 °C / -40 °F to +167 °F
- Stainless steel enclosure

- Zone 1 / 2 / 21 / 22
- ATEX
- IECEx
- NEC
- CEC
- TR-EAC
- IP68 / IP69K

AFZ Camera

EC-940-AFZ

NEW CONCEPT



- IP camera, Full HD (1920 x 1080)
- ONVIF S for seamless network integration
- Ex e chamber for easy installation
- -55 °C to +65 °C / -67 °F to +149 °F (Standard IP, PoE++)
- -25 °C to +55 °C / -13 °F to +131 °F (FO)
- Stainless steel enclosure

- Zone 1 / 2 / 21 / 22
- ATEX
- IECEx
- IP66

AFZ Camera

EC-940S-AFZ



- IP camera, Full HD (1920 x 1080)
- ONVIF S for seamless network integration
- -50 °C to +65 °C / -58 °F to +149 °F
- Stainless steel enclosure
- Also available as analog version

- Zone 1 / 2 / 21 / 22
- ATEX
- IECEx
- NEC
- CEC
- IP66 / IP68 / IP69



PTZ Camera

EC-940-PTZ



- IP camera, Full HD (1920 x 1080)
- ONVIF S for seamless network integration
- -40 °C to +60 °C / -40 °F to +140 °F
- Stainless steel enclosure
- 36x optical zoom (analog version) / 30x optical zoom (IP version)
- Also available as analog version

- Zone 1 / 2 / 21 / 22
- ATEX
- IECEx
- NEC
- CEC
- IP66

Thermal Imaging Camera

EC-840S-TIC



- Analog / IP version
- ONVIF S for seamless network integration
- -50 °C to +65 °C / -58 °F to +149 °F
- Stainless steel enclosure
- Resolution 640 x 512 or 336 x 256

- Zone 1 / 2 / 21 / 22
- ATEX
- IECEx
- NEC
- CEC
- IP66 / IP68 / IP69

Dome Camera

EC-750



- Analog / IP version
- -20 °C to +60 °C / -4 °F to 140 °F
- Stainless steel enclosure
- 360° endless
- 18x optical zoom (analog version) / 40x optical zoom (IP version)

- Zone 1 / 2 / 21 / 22
- ATEX
- IECEx
- IP68

Please find more detailed information at www.stahl-camera.de

OVERVIEW CAMERAS

	PRODUCT	CERTIFICATED	ORDER NUMBER	PRODUCT TYPE	RATING	ENCLOSURE MATERIAL	
COMPACT CAMERA							
	EC-710-0XX	ATEX, IECEx, NEC/CEC, TR-EAC	202206	Fix Analog Camera	IP68, IP69K	Stainless steel	
AUTOFOCUS ZOOM CAMERAS							
 NEW CONCEPT	EC-940-AFZ-HDI-04H	ATEX, IECEx	249080	Autofocus Zoom IP Camera	IP66	Electropolished stainless steel	
	EC-940-AFZ-HDI-05H	ATEX, IECEx	249079	Autofocus Zoom IP Camera	IP66	Electropolished stainless steel	
	EC-940-AFZ-HDI-06H	ATEX, IECEx	249360	Autofocus Zoom IP Camera	IP66	Electropolished stainless steel	
	EC-940-AFZ-HDF-04I	ATEX, IECEx	249091	Autofocus Zoom IP Camera	IP66	Electropolished stainless steel	
	EC-940-AFZ-HDF-05I	ATEX, IECEx	253456	Autofocus Zoom IP Camera	IP66	Electropolished stainless steel	
	EC-940S-AFZ-HDI-W24-56	ATEX, IECEx	251302	Autofocus Zoom IP Camera	IP66, IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-940S-AFZ-HDI-W2F-55	NEC, CEC	252708	Autofocus Zoom IP Camera	IP66, IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-940S-AFZ-HEI-W24-56	ATEX, IECEx	256593	Autofocus Zoom IP Camera	IP66, IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-940S-AFZ-HEI-W2F-55	NEC, CEC	256594	Autofocus Zoom IP Camera	IP66, IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-940S-AFZ-3PA-W24-56	ATEX, IECEx	257722	Autofocus Zoom Analog Camera	IP66, IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-940S-AFZ-3PA-W2F-55	NEC, CEC	257723	Autofocus Zoom Analog Camera	IP66, IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-940S-AFZ-3NA-W24-56	ATEX, IECEx	257724	Autofocus Zoom Analog Camera	IP66, IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-940S-AFZ-3NA-W2F-55	NEC, CEC	257725	Autofocus Zoom Analog Camera	IP66, IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
PTZ / PAN / TILT / ZOOM CAMERAS							
	EC-940-PTZ-HDI-W1	ATEX, IECEx	251231	Pan / Tilt / Zoom IP Camera	IP66	Electropolished stainless steel	
	EC-940-PTZ-HDI-W2	ATEX, IECEx, NEC, CEC	251291	Pan / Tilt / Zoom IP Camera	IP66	Electropolished stainless steel	
	EC-940-PTZ-A3P-W10	ATEX, IECEx	257727	Pan / Tilt / Zoom Analog Camera	IP66	Electropolished stainless steel	
	EC-940-PTZ-A3P-W20	ATEX, IECEx, NEC, CEC	257728	Pan / Tilt / Zoom Analog Camera	IP66	Electropolished stainless steel	
	EC-940-PTZ-A3N-W20	ATEX, IECEx	257726	Pan / Tilt / Zoom Analog Camera	IP66	Electropolished stainless steel	
TIC / THERMAL IMAGING CAMERAS							
	EC-840S-TIC-19A-332-456	ATEX, IECEx	251327	Thermal Imaging Analog Camera	IP66 , IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-840S-TIC-19A-332-F55	NEC, CEC	252709	Thermal Imaging Analog Camera	IP66 , IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-840S-TIC-19A-642-456	ATEX, IECEx	251329	Thermal Imaging Analog Camera	IP66 , IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-840S-TIC-19A-642-F55	NEC, CEC	252710	Thermal Imaging Analog Camera	IP66 , IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-840S-TIC-19I-332-456	ATEX, IECEx	251328	Thermal Imaging IP Camera	IP66 , IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-840S-TIC-19I-332-F55	NEC, CEC	252761	Thermal Imaging IP Camera	IP66 , IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-840S-TIC-19I-642-456	ATEX, IECEx	251330	Thermal Imaging IP Camera	IP66 , IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
	EC-840S-TIC-19I-642-F55	NEC, CEC	252762	Thermal Imaging IP Camera	IP66 , IP68, IP69 (Enclosure only)	Electropolished and microshoot peened stainless steel	
DOME CAMERAS							
	EC-750-PA-VI-PE	ATEX, IECEx	168166	Dome Camera Analog	IP68	Stainless steel	
	EC-750-NT-VI-PE	ATEX, IECEx	249537	Dome Camera Analog	IP68	Stainless steel	
	EC-750-PA-IP-PE	ATEX, IECEx	168168	Dome Camera IP	IP68	Stainless steel	
	EC-750-PA-IP-PE-40	ATEX, IECEx	241491	Dome Camera IP	IP68	Stainless steel	



CABLE	TEMPERATURE RANGE IN °C	POWER INPUT	OPTICAL ZOOM	ILLUMINATION	VIEWING ANGLE	SIGNAL / PROTOCOL	RESOLUTION
5 m multicable	-40 °C to +75 °C	12V DC	–	1.5 lux (F1.2, 5600 °K)	81° (H)–61° (V) Other viewing angles up to 12° (H) available upon request	FBAS	795 x 596 (PAL) 811 x 508 (NTSC)
–	-40 °C to +65 °C	230V AC	32x	0.03 lux (1/30s, F1.6, 50 IRE)	62.8° (W)–2.23° (T)	TCP/IP ONVIF Profile S	1920 x 1080 Full HD
–	-55 °C to +65 °C	24V DC	32x	0.03 lux (1/30s, F1.6, 50 IRE)	62.8° (W)–2.23° (T)	TCP/IP ONVIF Profile S	1920 x 1080 Full HD
–	-55 °C to +65 °C	PoE++ (with Extender)	32x	0.03 lux (1/30s, F1.6, 50 IRE)	62.8° (W)–2.23° (T)	TCP/IP ONVIF Profile S	1920 x 1080 Full HD
–	-25 °C to +55 °C	230V AC	32x	0.03 lux (1/30s, F1.6, 50 IRE)	62.8° (W)–2.23° (T)	TCP/IP ONVIF Profile S, FO Ex op is	1920 x 1080 Full HD
–	-25 °C to +55 °C	24V DC	32x	0.03 lux (1/30s, F1.6, 50 IRE)	62.8° (W)–2.23° (T)	TCP/IP ONVIF Profile S, FO Ex op is	1920 x 1080 Full HD
4 m armoured cable	-50 °C to +65 °C	12–24V DC 24V AC	10x	0.12 lux (1/30s, 50 IRE)	67° (W)–7.6° (T)	TCP/IP ONVIF Profile S	1920 x 1080 Full HD
4 m cable set	-50 °C to +55 °C	12–24V DC 24V AC	10x	0.12 lux (1/30s, 50 IRE)	67° (W)–7.6° (T)	TCP/IP ONVIF Profile S	1920 x 1080 Full HD
4 m armoured cable	-50 °C to +65 °C	12–24V DC 24V AC	30x	0.12 lux (1/30s, 50 IRE)	63.7° (W)–2.3° (T)	TCP/IP ONVIF Profile S	1920 x 1080 Full HD
4 m cable set	-50 °C to +65 °C	12–24V DC 24V AC	30x	0.12 lux (1/30s, 50 IRE)	63.7° (W)–2.3° (T)	TCP/IP ONVIF Profile S	1920 x 1080 Full HD
4 m armoured cable	-50 °C to +65 °C	12–24V DC 24V AC	36x	0.01 lux (1/3s, PAL)	57.8° (W)–1.7° (T)	FBAS	550 TVL
4 m cable set	-50 °C to +55 °C	12–24V DC 24V AC	36x	0.01 lux (1/3s, PAL)	57.8° (W)–1.7° (T)	FBAS	550 TVL
4 m armoured cable	-50 °C to +65 °C	12–24V DC 24V AC	36x	0.01 lux (1/3s, NTSC)	57.8° (W)–1.7° (T)	FBAS	550 TVL
4 m cable set	-50 °C to +55 °C	12–24V DC 24V AC	36x	0.01 lux (1/3s, NTSC)	57.8° (W)–1.7° (T)	FBAS	550 TVL
–	-40 °C to +60 °C	230V AC	30x	0.05 lux (1/30s, F1.6, 50 IRE)	63.7° (W)–2.3° (T)	TCP/IP ONVIF Profile S	1920 x 1080 Full HD
–	-40 °C to +60 °C	24V AC	30x	0.05 lux (1/30s, F1.6, 50 IRE)	63.7° (W)–2.3° (T)	TCP/IP ONVIF Profile S	1920 x 1080 Full HD
–	-40 °C to +60 °C	230V AC	36x	0.01 lux (1/3s, PAL)	57.8° (W)–1.7° (T)	FBAS	550 TVL
–	-40 °C to +60 °C	24V AC	36x	0.01 lux (1/3s, PAL)	57.8° (W)–1.7° (T)	FBAS	550 TVL
–	-40 °C to +60 °C	24V AC	36x	0.01 lux (1/3s, NTSC)	57.8° (W)–1.7° (T)	FBAS	550 TVL
4 m armoured cable	-50 °C to +65 °C	12–24V DC 24V AC	–	–	17° (H)–13° (V)	FBAS	336 x 256 (PAL) 336 x 240 (NTSC)
4 m cable set	-50 °C to +55 °C	12–24V DC 24V AC	–	–	17° (H)–13° (V)	FBAS	336 x 256 (PAL) 336 x 240 (NTSC)
4 m armoured cable	-50 °C to +65 °C	12–24V DC 24V AC	–	–	32° (H)–26° (V)	FBAS	640 x 512 (PAL) 640 x 480 (NTSC)
4 m cable set	-50 °C to +55 °C	12–24V DC 24V AC	–	–	32° (H)–26° (V)	FBAS	640 x 512 (PAL) 640 x 480 (NTSC)
4 m armoured cable	-50 °C to +65 °C	12–24V DC 24V AC	–	–	17° (H)–13° (V)	TCP/IP ONVIF Profile S	336 x 256 (PAL) 336 x 240 (NTSC)
4 m cable set	-50 °C to +55 °C	12–24V DC 24V AC	–	–	17° (H)–13° (V)	TCP/IP ONVIF Profile S	336 x 256 (PAL) 336 x 240 (NTSC)
4 m armoured cable	-50 °C to +65 °C	12–24V DC 24V AC	–	–	32° (H)–26° (V)	TCP/IP ONVIF Profile S	640 x 512 (PAL) 640 x 480 (NTSC)
4 m cable set	-50 °C to +55 °C	12–24V DC 24V AC	–	–	32° (H)–26° (V)	TCP/IP ONVIF Profile S	640 x 512 (PAL) 640 x 480 (NTSC)
5 m multicable	-20 °C to +60 °C	24V DC	18x	0.01 lux (1/4s, PAL)	48° (W)–2.8° (T)	FBAS	752 x 582
5 m multicable	-20 °C to +60 °C	24V DC	18x	0.01 lux (1/4s, NTSC)	48° (W)–2.8° (T)	FBAS	752 x 582
5 m multicable	-20 °C to +60 °C	24V DC	18x	0.01 lux (1/4s, F1.6)	48° (W)–2.8° (T)	TCP/IP	720 x 576
5 m multicable	-20 °C to +60 °C	24V DC	40x	0.01 lux (1/4s, F1.6)	60° (W)–1.6° (T)	TCP/IP	720 x 576

ACCESSORIES

HARDWARE

INSPECTION WINDOW MOUNT FOR COMPACT CAMERAS



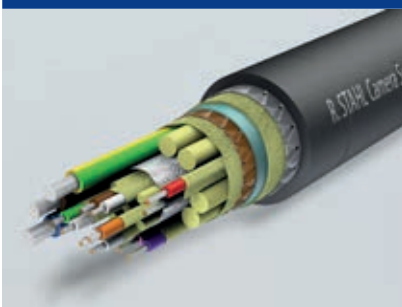
For batch reactors, R. STAHL offers inspection window mounts for the compact cameras which are ideally suited for inspection window monitoring of critical process phases.

WASH & WIPER FUNCTION



The EC-940S and EC-940-PTZ are fitted with a wiper ex-factory. A spray nozzle and a water tank for Zone 1 are available as further options.

CABLE



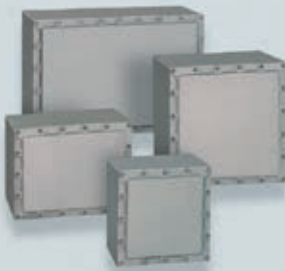
Armoured and non-armoured multicables. The composition of the cable of twisted wires, insulation, shielding and coating, tailored for any type of application, is the basis of the cable's functionality. The portfolio ranges from armoured multi-Ethernet cables for the Full HD IP cameras to analog multicables for the analog series.

VIDEO SURVEILLANCE VIA POWERFUL SHARK PANEL PCs



Fitted with the new Intel® Core™ i7 processors, the powerful SHARK Panel PCs are ideally suited for network-based video surveillance. With high-brightness display, multi-touch functions, brightness sensor, Bluetooth® and camera interfaces, the 438-Panel PCs are suitable for universal operation worldwide, in ambient temperatures ranging from -40 °C to +65 °C / -40 °F to +149 °F.

EX D ENCLOSURES



The explosion-protected Ex d enclosure system made of stainless steel or aluminium allows for the flexible installation of components from safe areas.

In this way, components that were originally only designed for installation outside of hazardous areas can now also be used inside hazardous areas. We will also develop the ideal Ex d enclosure for each component, on request immediately operational.

EX E TERMINAL BOXES



Ex e terminal boxes, made of stainless steel or glass fibre reinforced polyester resin, are designed for the connection of individual or flexible wires in hazardous areas.

A connection directly at the Ex d enclosure makes sense and is technically possible; the individual components can thus be easily connected inside the enclosure.

CAMERA MOUNTS



Various electropolished stainless steel mounts in AISI 316L are available for easy mounting of the cameras. In addition to wall and ceiling mounts, pole- and corner-mount adapters are available.

VIDEO MANAGEMENT SOFTWARE

SEETEC CAYUGA AS STANDARD

SEE MORE, UNDERSTAND MORE, ACT FASTER
AND MORE EFFICIENTLY



SeeTec Cayuga – our standard software – can be used in a great variety of applications that go beyond the classic security field, and is thus one of our preferred video management systems.

A great many modules and interfaces result in highly professional, individual, scalable video management solutions for every conceivable area of application. For further software solutions please contact our project team.

VENDOR INDEPENDENCE – AN OPEN SYSTEM

Just like R. STAHL's hardware platform, the SeeTec software is designed as an "open" system, making it easy for R. STAHL IP cameras as well as network cameras and video servers of almost all major manufacturers (ONVIF Profile S) and I/O modules, alarm triggers and video sensors to be operated inside one CCTV system.

Thus, individual, tailor-made system solutions are possible for any type of application – for completely new CCTV systems as well as the expansion/upgrade of existing ones.

UNLIMITED ACCESS OPTIONS

Various client types, e.g. Windows® clients, web clients, mobile clients (e.g. smartphones or tablets using iOS or Android) enable access to and from the cameras both locally and via the internet. Here, data transmission between client and servers is always on the basis of encrypted connections.

Desktop virtualisation with Citrix and desktop connections are also supported.

FAILSAFE

Should a recording server fail, a failover server in hot standby mode can take over the recording of images. Even if the central administration server fails, the local systems will remain accessible in stand-alone mode.

COMPLEX ALARM SCENARIOS

SeeTec can be used to define complex alarm scenarios which, in the case of an alarm, start the simultaneous recording of network cameras in the system or forward alarms. Thus, reaction times are cut and dangerous situations can be defused sooner.

PRACTICAL SYSTEM MANAGEMENT

Multi-level administration for individual mapping of organisation structures. Expanded alarm scenarios enable users to individually map routines and workflows.

VIDEO ANALYSIS

SeeTec Cayuga has a user-friendly video analysis integrated as a basic module. For further analysis, a great many modules are available in the system. These modules can be used for fast and reliable recognition of potential dangers, thus creating the basis for an efficient alarm management.

Your security staff's work is noticeably reduced, and valuable resources are saved.

ONE-STOP SUPPLIER

CCTV SYSTEMS – tailored to your individual hazardous area requirements

We develop CCTV system solutions tailored to the specific requirements of your plant to provide you with maximum surveillance coverage of all areas and processes in hazardous areas. We provide not only hardware and software, but all relevant services such as project design, project engineering, system con-

figuration, documentation, FAT, commissioning, SAT, service and maintenance – except for installation. Our CCTV systems also adapt to existing CCTV systems.

An experienced project manager will be your primary contact and responsible throughout the entire project.

PERSONAL PROJECT MANAGEMENT

CCTV DESIGN

PROJECT ENGINEERING

SERVICE / MAINTENANCE

SYSTEM CONFIGURATION

SITE ACCEPTANCE TEXT (SAT)

DOCUMENTATION

COMMISSIONING / TRAINING

FACTORY ACCEPTANCE TEST (FAT)

WEB SERVICE



CCTV SYSTEM FINDER

Our CCTV SYSTEM FINDER serves as the basis for developing system solutions tailored to your specific requirements. Just answer a few short questions and describe your requirements – our experts will then develop a non-binding system solution or quote for you.

OUR CCTV EXPERTS



We cannot be everywhere, but we provide expert advice, whenever and wherever you need us. Using modern communication, video and chat functions allow us to present and discuss with you CCTV solutions tailored to your individual requirements.



Your personal project manager and CCTV expert provides you with extensive support, including training, commissioning, FAT, SAT, and system configuration – all from one single expert source.

HEADQUARTERS GERMANY

R. STAHL Camera Systems GmbH
Adolf-Grimme-Allee 8
50829 Cologne
Germany
Phone +49 (0) 221 76 806-1200
Fax +49 (0) 221 76 806-4200
office@stahl-camera.de
stahl-camera.de

R. STAHL: YOUR GLOBAL PARTNER

We are at your service around the globe: with seven production sites, subsidiaries in 24 countries and 60 agencies. Our international employees understand your needs and offer you R. STAHL quality – no matter where you need it.





Thanks to this global presence, we realise international joint projects that include customers, planners, installation companies and operators from various countries. And we take care of the needs of everyone involved in the project – right on-site.

At the same time we ensure compliance with the various legal stipulations relevant for each project since we have international certifications and approvals available worldwide.



OUR PRODUCTION SITES:

R. STAHL

- | | |
|---|--|
|  Headquarters |  Subsidiary |
|  Production site |  Agency |



Germany - Waldenburg

Germany - Cologne

Germany - Weißenfels



mar



Netherlands



Norway



India



USA



STAHL

R. STAHL Camera Systems GmbH
Adolf-Grimme-Allee 8
50829 Cologne
Germany
Phone +49 (0) 221 76 806-1200
Fax +49 (0) 221 76 806-4200
office@stahl-camera.de
stahl-camera.de