CCTV SYSTEMS AND CAMERAS
For hazardous and safe industrial areas
All of R.STAHL’s explosion-protected cameras – the compact camera, the all-round, AFZ, PTZ, thermal imaging and the dome camera – are certified for hazardous areas Zone 1, 2, 21, 22 and Division 2.

R. STAHL cameras can be installed worldwide, even under extreme conditions. Different camera types are certified for temperatures ranging from -55 °C to +65 °C.

For monitoring safe industrial areas we recommend our new, universally applicable full HD compact camera featuring low-light technology and 30x zoom.

Our OPEN CCTV SYSTEM is the basis for customised CCTV systems that reflect each individual site’s specific requirements.

This system encompasses all R. STAHL cameras as well as various hardware and software components that can be combined with one another in any way. All components have been tested for reliability, longevity and resistance.

NEW: IC-930 FOR SAFE AREAS
Our automation range covers cameras and CCTV systems, remote I/O and network technology, isolators, grounding devices and human-machine interfaces (HMIs) for hazardous and industrial areas.

As a leading explosion-protection provider R. STAHL designs modern automation solutions – perfectly matched to meet the various operation conditions of different industries and regions. Our designs combine a high degree of reliability and top quality “made in Germany”.

Be it the integration into modern Ethernet networks, the integration of diagnoses in plant asset management systems, wireless communication or modern visualisation concepts – we meet any challenge head-on!

R. STAHL AUTOMATION – MORE THAN YOU EXPECT.
OPEN CCTV SYSTEM FOR INDIVIDUAL CCTV SYSTEM SOLUTIONS

R. STAHL CAMERAS FOR HAZARDOUS AND SAFE AREAS

HAZARDOUS AREA

COMPACT CAMERAS
- 7 Different Focal Lengths
- ATEX, IECEx, NEE, CEC, EAC (TR)

AFZ CAMERAS
- IP Analogue
- ATEX, IECEx, NEE, CEC, EAC (TR), Lloyd’s

PTZ CAMERAS
- IP Analogue
- ATEX, IECEx, NEE, CEC, EAC (TR), Lloyd’s

THERMAL IMAGING CAMERAS
- IP Analogue
- ATEX, IECEx, NEE, CEC, EAC (TR), Lloyd’s

DOME CAMERAS
- IP Analogue
- ATEX, IECEx

SAFE INDUSTRIAL AREA

COMPACT CAMERAS
- Full HD IP
- Low-Light Technology
- ONVIF Profile S / Q
- 24 VDC / 24 VAC or PoE+

EXTERNAL HARDWARE FOR CCTV SYSTEMS

CLIENT
WEB CLIENT
SERVER
SWITCH
EXISTING CAMERAS
JUNCTION BOX
VIDEO ENCODER
JOYSTICK

VIDEO-MANAGEMENT SOFTWARE

SeaTec

EXAMPLE OF CCTV SYSTEMS IN A HAZARDOUS AREA

HAZARDOUS AREA
PTZ CAMERAS
THERMAL IMAGING CAMERAS
ZOOM CAMERAS
CLIENT
WEB CLIENT
SERVER

EXTERNAL SYSTEM
CONTROL SYSTEM
FIRE/ALARM SYSTEM
INTRUDER ALARM
ACCESS CONTROL

SAFE INDUSTRIAL AREA
It is not individual cameras so much as complete CCTV solutions that are essential for guaranteeing the safety of staff, machinery and the environment in hazardous and industrial areas.

Our OPEN CCTV SYSTEM consisting of R. STAHL camera systems applicable worldwide as well as hardware and software components, enables us to configure the ideal CCTV solution for every system. All our cameras can be combined with any switches, servers, clients as well as professional video management software packages.

Our CCTV experts will look after your project from its conception to its realisation – managing all project components except the installation.
CCTV REQUIREMENTS:
This CCTV system has been specifically designed to withstand the extreme temperature fluctuations and ambient conditions at drilling rigs, Zone 1. The client required three different areas on the drilling rig to be monitored with a separate station each, but connected to each other for flexible access. All video data had to be stored on a server matrix.

R. STAHL CAMERA SYSTEM SOLUTION:
To ensure optimum results, a different camera type was chosen for each task in Zone 1: high-resolution thermal imaging cameras for man overboard detection, fast revolving PTZ cameras for monitoring drill pipes, and AFZ cameras with PoE+ for indoor monitoring. Via various cable types and switches, the cameras’ video data is stored on a server matrix, where it can be accessed by everyone.
The EC-940-AFZ features one of the most modern camera designs for hazardous areas. The integrated Ex e connection box greatly simplifies both commissioning and maintenance – “INSTALLATION MADE EASY”.

The PoE++ function enables the camera to be connected quickly and easily, since only one cable is required for data transmission and power supply.

The enclosure contains state-of-the-art camera technology including full HD, WDR, defog and ONVIF S function.

Its suitability for extreme temperatures ranging from -55 °C to +65 °C makes the camera ideally suited for oil and gas applications.

- State-of-the-art camera technology
- Simple installation with PoE++
- Ex e connection box
- Temperature range -55 °C … +65 °C
- ATEX, IECEx
- IP66

NEW TYPE OF CAMERA WITH EX e CONNECTION BOX AND PoE++ – EC-940-AFZ
**CASE STUDY**

**COMBINED DRILLING PROCESS AND AREA MONITORING**

**CCTV REQUIREMENTS:**
The client required this CCTV system to monitor in parallel on two screens and in real time the stand of the drill pipe as well as the surrounding rig area, in temperatures ranging from -40 °C to +60 °C.

**R. STAHL CAMERA SYSTEM SOLUTION:**
Two analogue AFZ cameras were used to monitor the drill pipe in real time, and light-sensitive, fast-rotating PTZ cameras were used for indoor surveillance. Data was transmitted via a server matrix inside a weatherproof enclosure at two control screens.

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**CASE STUDY**

**DETAILED CRANE MONITORING**

**CCTV REQUIREMENTS:**
The client required the system to perform complete and detailed monitoring of all horizontal and lifting movements. The client also requested a combination of analogue and IP cameras, including real-time visualisation on a 12" screen.

**R. STAHL CAMERA SYSTEM SOLUTION:**
This system consisted of an EC-910 full HD zoom camera with autofocus for the continuous monitoring of the crane movements, and two EC-710 compact cameras with fixed focus for the real-time visualisation of the surrounding area.
STATE-OF-THE-ART CAMERA TECHNOLOGY EFFICIENTLY REALISED – EC-910

The new, compact, all-round EC-910 camera with 3x / 10x zoom has much to offer at an attractive price.

Functions include full HD, WDR, ONVIF, defog and PoE+, with a range of explosion-protection certificates as additional features.

- Efficient high-tech camera
- Temperature range -40 °C … +65 °C
- ATEX, IECEx, NEC, CEC, EAC (TR), Lloyd’s
- IP66 / IP67 / IP68 / IP69

HIGH-PRECISION PAN/TILT CAMERA EC-940-PTZ

The panning movements and the autofocus zoom functions of the EC-940-PTZ camera are extraordinarily fast, placing every corner of a drilling rig under optimum control. Its high precision together with programmed paths result in tracking shots with detailed images of hazardous areas at the required intervals.

- High precision and fast revolving
- Low-light technology
- Temperature range -40 °C … +60 °C
- ATEX, IECEx, NEC, CEC, EAC (TR), Lloyd’s
- IP66
CASE STUDY

PROCESS AND DETAILED SURVEILLANCE IN ZONE 1 WITH REDUNDANT CONTROL

CCTV REQUIREMENTS:
The client for this system required parallel (redundant) monitoring at two control stations as well as direct monitoring and operating via one HMI in the hazardous area. In addition, long distances had to be covered. A universally applicable industrial camera was required for a safe area.

R. STAHL CAMERA SYSTEM SOLUTION:
These requirements were met with a combination of high-resolution thermal imaging cameras and high-precision PTZ cameras in the hazardous areas. All data is transmitted via fibre optic, media converter and switch to two control stations, for parallel access and storage. The compact IC-930 full HD IP camera was chosen for surveillance in the safe area.
This thermal imaging camera has options for high and medium resolution, which can be used according to requirements.

Additionally, colour-coding can be set individually according to temperature.

Thus, any change in temperature is always clearly visible.

In addition, we offer a special thermographic software which, as an “open solution”, can be configured to meet the individual requirements of each system.

- IP / analogue
- Temperature range -50 °C ... +65 °C
- Worldwide application
- ATEX, IECEx, NEC, CEC, EAC (TR), Lloyd’s
- Optional open thermographic software
CCTV REQUIREMENTS:
To be able to react swiftly to any abrupt changes in a batch reactor (e.g. foaming), this CCTV project required inspection window monitoring. In addition, a universally applicable camera was required for the safe areas.

R. STAHL CAMERA SYSTEM SOLUTION:
For the immediate control of possible foaming in Zone 1 the EC-910 full HD AFZ camera is the ideal solution – its brilliant image quality and light sensitivity guarantee excellent images of the production medium inside the batch reactor. The safe area is monitored using an IC-930 camera. HMIs as Panel PCs at various locations in Zone 1 are used for visualisation.
AFZ CAMERA IDEAL FOR INSPECTION WINDOW MONITORING – EC-910

The compact EC-910 AFZ camera with 3x / 10x zoom combines state-of-the-art functions such as full HD, day/night mode, WDR and backlight compensation, making it ideally suited for inspection window monitoring.

The 90° viewing angle and an adaptive inspection window mount provide excellent images of the process inside the batch reactor.

• Highly light-sensitive
• Temperature range -40 °C … +65 °C
• Requires little space
• PoE+
• ATEX, IECEx, NEC, CEC, EAC (TR), Lloyd’s
• IP66 / IP67 / IP68 / IP69
CCTV REQUIREMENTS:
For this CCTV system the client required explosion-protected cameras to monitor two large production halls and several batch reactor inspection windows. In addition, a safe outdoor area also needed to be monitored. For simultaneous control at different screen stations, all video data had to be collected in a server-client matrix.

R. STAHL CAMERA SYSTEM SOLUTION:
For monitoring the area outside Hall B we used the EC-940S AFZ camera as a fast zoom camera which is certified for installation in temperatures ranging from -50 °C to +65 °C and, due to its inbuilt wash & wiper system, guarantees a permanently clear view. The EC-710 is used as a fixed camera for inspection window monitoring in Zone 1, whilst the safe areas are monitored with the IC-930 full HD camera.
THE AFZ CAMERA FOR UNIVERSAL APPLICATION – EC-940S

The EC-940S AFZ camera is a universally applicable zoom camera with certifications for operation in nearly every country around the globe. There are various different IP or analogue versions for operation as a real-time camera or inside networks.

The powerful IP version features full HD, ONVIF S and Q, a very wide temperature range of -50 °C to +65 °C, and 30x zoom. The analogue versions feature 36x zoom.

- Universal application
- Low-light technology
- IP / analogue
- ONVIF S und Q
- Temperature range -50 °C … +65 °C
- ATEX, IECEx, NEC, CEC, EAC (TR), Lloyd’s
- IP66 / IP68 / IP69
THE LATEST TECHNOLOGY FOR THE MOST EXTREME CONDITIONS

Our large portfolio of explosion-protected and industrial cameras includes the smallest compact camera in the world, full HD IP and dome cameras as well as highly sensitive thermal imaging cameras.

Together with other hardware and software components, these cameras are the integral part of any individual CCTV solution tailored to meet specific system requirements. Camera versions certified for temperatures from -40 °C to +75 °C or from -55 °C to +65 °C are available for extreme temperature ranges.

**EC-710 Compact camera**
- Diameter of only 55 mm
- 7 versions with different fixed focal lengths
- Temperature range -40 °C … +75 °C
- High-quality stainless-steel enclosure
- Optional inspection window mount
- Zone 1 / 2 / 21 / 22
- IP68 / IP69K
- ATEX
- IECEx
- NEC, CEC
- EAC (TR)

**All-round EC-910-AFZ camera**
- Compact IP camera, full HD (1920 x 1080)
- 3x or 10x optical zoom
- PoE+, 24 VDC or 24 VAC
- ONVIF S and Q, for simple installation
- Temperature range -40 °C … +60 °C
- Stainless-steel enclosure, electropolished
- Including wall- and ceiling-mount bracket
- Optional inspection window mount
- Zone 1 / 2 / 21 / 22
- IP66 / IP67 / IP68 / IP69
- ATEX
- IECEx
- NEC, CEC
- EAC (TR)
- Lloyd’s

**EC-940-AFZ camera**
- IP camera, full HD (1920 x 1080)
- ONVIF S, can be integrated worldwide
- Ex e connection box for simple installation
- Temperature range
  - -55 °C … +65 °C (Standard IP, PoE++)
  - -25 °C … +55 °C (LWL)
- High-quality stainless-steel enclosure, electropolished
- Zone 1 / 2 / 21 / 22
- IP66
- ATEX
- IECEx
<table>
<thead>
<tr>
<th>Camera Model</th>
<th>Analogue or IP version</th>
<th>IP camera, full HD (1920 x 1080)</th>
<th>ONVIF S and Q, can be integrated worldwide</th>
<th>Temperature range -50 °C … +65 °C</th>
<th>High-quality stainless-steel enclosure, electropolished</th>
<th>30x optical zoom (IP version) / 36x optical zoom (analogue version)</th>
<th>Zone 1 / 2 / 21 / 22</th>
<th>IP66 / IP68 / IP69</th>
<th>ATEX</th>
<th>IECEx</th>
<th>NEC, CEC</th>
<th>EAC (TR)</th>
<th>Lloyd’s</th>
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<tbody>
<tr>
<td>EC-940S-AFZ</td>
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<td>EC-840S-TIC</td>
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<td>ONVIF S, can be integrated worldwide</td>
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<tr>
<td>IC-930 Compact</td>
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<td>IP camera, full HD (1920 x 1080)</td>
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</table>
OUR CAMERAS IN DETAIL

### Compact Camera

**Product code:** EC-710-00X

**Certificates:** ATEX, IECEX, NEC, CEC, EAC (TR)

**SAP no:** 202206

**Product type:** Fixed-focus analogue camera, 7 focal lengths available

**Connection Box:** IP68, IP69K

### All-Round Cameras

**Product code:** EC-910-AFZ-I03-P00

**Certificates:** ATEX, IECEX, NEC, CEC, EAC (TR), Lloyd’s

**SAP no:** 264963

**Product type:** Autofocus Zoom IP Camera, Full HD

**Connection Box:** IP68, IP67, IP68, IP69

### Azf / Autofocus Zoom Cameras

**Product code:** EC-940-AFZ-HDI-04H

**Certificates:** ATEX, IECEX

**SAP no:** 266895

**Product type:** Autofocus Zoom IP Camera

**Connection Box:** Ex e

**IP rating:** IP68

### PTZ / Pan / Tilt / Zoom Cameras

**Product code:** EC-960-PTZ-HFI-W1B

**Certificates:** ATEX, IECEX, EAC (TR), Lloyd’s

**SAP no:** 271521

**Product type:** Pan / Tilt / Zoom IP Camera

**Connection Box:** Ex e

**IP rating:** IP68

### Thermal Imaging Cameras

**Product code:** EC-840S-TIC-19A-642-456

**Certificates:** ATEX, IECEX, NEC, CEC, EAC (TR), Lloyd’s

**SAP no:** 251327

**Product type:** Thermal Imaging Analogue Camera

**Connection Box:** Ex e

**IP rating:** IP68, IP68, IP69 (enclosure only)

### Dome Cameras

**Product code:** EC-750-PA-VI-PE

**Certificates:** ATEX, IECEX

**SAP no:** 168166

**Product type:** Dome Analogue Camera

**Connection Box:** IP68

### Compact Cameras for Safe Industrial Areas

**Product code:** IC-930-AFZ-W00

**Certificates:** ATEX, IECEX

**SAP no:** 271549

**Product type:** Autofocus Zoom IP camera, Full HD

**Connection Box:** IP68, IP67, IP68, IP69

**NEW**

**Product code:** IC-930-AFZ-W01

**Certificates:** ATEX, IECEX

**SAP no:** 271550

**Product type:** Autofocus Zoom IP camera, Full HD

**Connection Box:** IP68, IP67, IP68, IP69

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<table>
<thead>
<tr>
<th>Low-light technology</th>
<th>Cable</th>
<th>Temperature range in °C</th>
<th>Power input</th>
<th>Optical zoom</th>
<th>Viewing angle</th>
<th>Signal / Protocol</th>
<th>Resolution</th>
</tr>
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<tr>
<td>5 m multicable</td>
<td>−40 °C ... +65 °C</td>
<td>12 VDC</td>
<td>−40 °C ... +65 °C</td>
<td>24 VDC / 24 VAC</td>
<td>3x</td>
<td>90° (W) – 32° (T)</td>
<td>TCP/IP, ONVIF S / Q</td>
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<tr>
<td></td>
<td>−55 °C ... +65 °C</td>
<td>24 VDC</td>
<td>−40 °C ... +65 °C</td>
<td>24 VDC / 24 VAC or PoE+</td>
<td>3x</td>
<td>90° (W) – 32° (T)</td>
<td>TCP/IP, ONVIF S / Q</td>
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<tr>
<td>4 m cable</td>
<td>−40 °C ... +65 °C</td>
<td>12 – 24 VDC / 24 VAC</td>
<td>10x</td>
<td>87° (W) – 7° (T)</td>
<td>TCP/IP, ONVIF S / Q</td>
<td>1920 x 1080 Full HD</td>
<td></td>
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<tr>
<td>10 m cable</td>
<td>−40 °C ... +65 °C</td>
<td>12 – 24 VDC / 24 VAC</td>
<td>10x</td>
<td>87° (W) – 7° (T)</td>
<td>TCP/IP, ONVIF S / Q</td>
<td>1920 x 1080 Full HD</td>
<td></td>
</tr>
</tbody>
</table>

| 4 m cable          | −40 °C ... +65 °C | 12 – 24 VDC / 24 VAC | 10x | 87° (W) – 7° (T) | TCP/IP, ONVIF S / Q | 1920 x 1080 Full HD |
| 10 m cable          | −40 °C ... +65 °C | 12 – 24 VDC / 24 VAC | 10x | 87° (W) – 7° (T) | TCP/IP, ONVIF S / Q | 1920 x 1080 Full HD |
| 5 m multicable      | −20 °C ... +60 °C | 24 VDC | −40 °C ... +65 °C | 24 VDC / 24 VAC or PoE+ | 3x | 90° (W) – 2° (T) | TCP/IP, ONVIF S / Q | 1920 x 1080 Full HD |
| 15 m multicable     | −20 °C ... +60 °C | 24 VDC | −40 °C ... +65 °C | 24 VDC / 24 VAC | 3x | 90° (W) – 2° (T) | TCP/IP, ONVIF S / Q | 1920 x 1080 Full HD |
| 5 m multicable      | −20 °C ... +60 °C | 24 VDC | −40 °C ... +65 °C | 24 VDC / 24 VAC | 3x | 90° (W) – 2° (T) | TCP/IP, ONVIF S / Q | 1920 x 1080 Full HD |

| 5 m multicable      | −20 °C ... +60 °C | 24 VDC | −40 °C ... +65 °C | 24 VDC / 24 VAC | 3x | 90° (W) – 2° (T) | TCP/IP, ONVIF S / Q | 1920 x 1080 Full HD |
# ACCESSORIES

## Inspection window mount

For batch reactors, R.STAHL has inspection window mounts in its portfolio as accessories for the EC-910 all-round camera and the EC-710 compact camera. With their folding mechanism and designed in high-quality stainless-steel for the standard size, the mounts are ideal for these two cameras.

## Wash & wiper system

For a permanently clear view, even under extreme conditions such as those present on drilling rigs, our cameras can be equipped with a complete wash & wiper system, including spray nozzle and optional water tank, for Zone 1. The wash & wiper systems are available for the camera versions EC-940S-AFZ and EC-940-PTZ.

## Multicable – armoured or standard

Reliable cable function requires a combination of twisted cables, insulation, shielding and cable coating, customised for each application. Products range from armoured multi-Ethernet cables for the full HD IP cameras to analogue multicable for the analogue camera versions.

## Ex d enclosures

The explosion-protected enclosure system made of stainless-steel or aluminium allows for the flexible installation of components from non-Ex areas. Thus, components that were originally only designed for installation outside of hazardous areas can now also be used inside hazardous areas. We will develop the ideal Ex d enclosure for each component, on request also immediately operational.

## Ex e terminal boxes

Ex e terminal boxes, made from 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 is technically possible and the individual components can thus be easily connected inside the enclosure.

## Camera mounts

Various mounts made of electropolished stainless-steel (AISI 316L) are available, including wall and ceiling mounts as well as adapters for pole and corner mounts.
Featuring the new Intel® Core™-i7 dual-core 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 15” / 21.5” Panel PCs are suitable for universal operation worldwide, in ambient temperatures ranging from -40 °C to +65 °C.

The Panel PCs of the EAGLE device platform are all-round talents for operating machinery and processes, tank farms and filling stations as well as onboard ships. They are certified for worldwide operation in hazardous areas, resistant to corrosive gases (ISA S71.04 G3), vibration- and shock-proof. As a standard, all 10” / 15” models are equipped with touchscreens, have IP66, and are certified for temperatures ranging from -30 °C to +50 °C.

The widescreen Panel PCs with device platform MANTA are geared towards the requirements of the pharmaceutical, chemical and life sciences industry: they are cleanroom-suitable, can display complex processes in brilliant image quality on widescreens and have glass touchscreens and the latest quad-core processors for smooth image display.

For some applications it might be preferable to use KVM systems with separate PCs instead of Panel PCs directly on site. These highly robust HMI systems of the device platform SHARK are shock-, vibration-, seawater- and salt-spray-proof, have IP66 and operate reliably in temperatures ranging from -40 °C to +65 °C, thanks to the integrated heater and our innovative application of the stack effect. They are available as 15” or 21.5” versions.

The 9721 series media converter converts electrical signals into optically inherently safe “op is” signals, allowing installation and maintenance work to be conducted on fibre optics in Zones 0, 1 and 2 without the need for downtime (hot swap/hot work). It is particularly suitable for the IS1+ Ethernet remote I/O system.

The 9721 switch is used for linking electrical Ethernet networks with optical 100 Mbit/s Ethernet networks. The 4 FO ports are designed for operation in hazardous areas with the “op is” type of protection. This way, conventional fibre optic cables can also be used in hazardous areas and may be connected and disconnected during operation (hot swap).
Professional video management software systems give you an overview of all processes at your site. Inspection rounds, close-ups and panorama views, alarms, video analyses and many other types of data can be processed and managed exactly the way you need.

- Management of all video feeds
- On-site or remote operation via clients
- Multivendor capability
- Integration of existing and new systems
The SeeTec Cayuga software is our standard software. It 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 and scaleable video management solutions for every conceivable area of application. Our project team will be happy to assist you with further software solutions.

Seetec Cayuga Video Management Software

• Open design, unlimited compatibility
• Variable and scaleable
• Integration of third-party and existing devices
• Intuitive, without the need for extensive training
• Video analysis with intelligent analysis routines
• Clearly structured user interface
• Live, archive and configuration modes
• Native Client, Web Client, Mobile Client
• Citrix / Remote Desktop and multi-installation login
• Time-saving functions
• Lasso tool & drag & drop
• Shuttle wheel for fast navigation in archive mode
• Bookmark functions & selection pins
• Efficient alarm management with alarm counter
• Toast messages
• Adjustable colour differentiation

Thermographic Software

• For specific (loading, drilling rigs, chemical) and universal applications
• Completely open software, customised for each individual application
• Implementation in close cooperation with the application experts
• “One contact concept” with effective 1:1 implementation
R. STAHL AUTOMATION – MORE THAN YOU EXPECT

AUTOMATION

SAFETY BARRIERS

ISOLATORS

REMOTE I/O

FIELDBUS

NETWORK PRODUCTS

ZONE 1

ZONE 2

EX

FIELD DEVICE

ISA100.11a
LEVEL

SYSTEMS & SOLUTIONS

HMIs

CAMERA SYSTEMS

CONTROL STATION

GROUNDING MONITOR

Modbus RTU

Modbus TCP

WirelessHART

EtherCAT

EtherNet/IP®

FDI

conformance tested

OnVIF®
R. STAHL: YOUR PARTNER FOR EXPLOSION PROTECTION WORLDWIDE

CCTV planning

In addition to components, R.STAHL can also provide project-specific solutions. Our experienced engineers cooperate with you to design the ideal solution for your application fast.

Project engineering and on-site training

From a new CCTV plan to production, quality control and on-site training, you will be talking to one R. STAHL project manager who will advise you competently on all questions concerning the project.

Factory Acceptance Test (FAT) / Site Acceptance Test (SAT)

Visit us at our spacious production site for testing and releasing your solutions. Any changes can be quickly incorporated and checked.

Support

Our cooperation certainly does not end with the delivery of your system. Our support team is available by telephone during the initial on-site commissioning and over the entire operating life.
With our products and systems we ensure the safety of people, machines and the environment in hazardous areas, and offer our clients customised solutions that are reliable and innovative. Our technology is always state-of-the-art. You can be sure that you have selected a modern and sustainable solution. Trust our know-how, our extensive product and service portfolio, our system expertise, our high quality and our reliability when it comes to certification questions.