HMI & Camera Solutions
Oil and Gas Industries

The application of operating and camera technology in the oil and gas industries, for example on oil rigs or in loading docks on land, on shore or off shore, is characterised by a rough environment, extreme temperatures and, in many cases, hazardous locations.

For years, R. STAHL has met these special requirements with its product developments and is able to supply a wide range of tailor-made products.

The problem: Direct sunlight

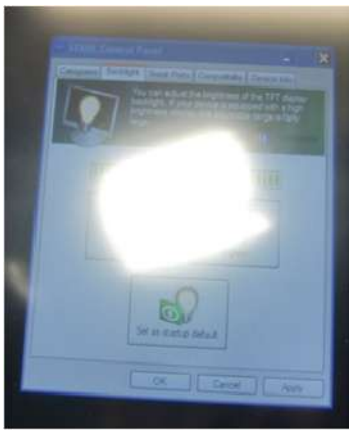
In many areas of industry, operator interfaces have to be installed and operated outdoors. This caused problems with the demand for bigger colour displays, because direct sunlight made reading those screens difficult, if not impossible. A new, innovative pole filter technology enables R. STAHL to provide Panel PCs and Remote HMIs with 15" displays that are readable in direct sunlight.

The Product: ET-436, MT-436

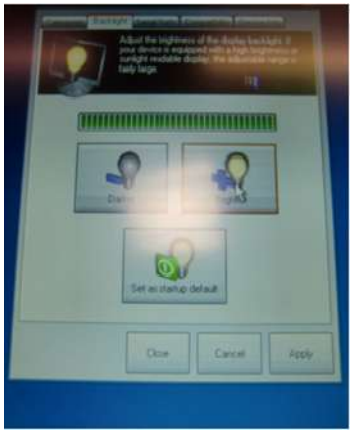
Internally modular Panel PC for installation in zones 1, 21 (ET-436) and zones 2, 22 (MT-436) under extreme ambient conditions. The device has IP 66 and can be operated at an ambient temperature of between -30°C to +55°C
(-30°C with heater and +55°C not permanent operation).

Long-life Solid-State flash drives

'No more rotating parts' is more than just a slogan - the flash disks used to replace rotating hard disks can also be problematic. Which is why R. STAHL is using Solid State flash disks. The Solid State disks provided for Open HMIs have been optimised for long life and greatest safety. The disks not only work with error checking and fixing algorithms, but also ensure that data is saved in the case of power failure. The Solid State disks are available with a memory of 4 GB and 16 GB.



Classic: High-brightness display



New: Display with pole filter technology

Intel ATOM inside:
Energy-efficient and still fast due to the use of Intel ATOM processors.

Flash cards with Solid-State technology

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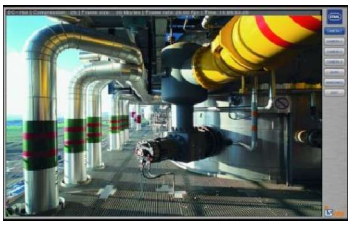
CCTV solutions

For the oil and gas industries, R. STAHL can provide complex solutions, ranging from simple monitoring with one or several cameras to a fully server-based video surveillance with more than a hundred cameras. The example at the trade fair shows a small application using IsView software and two cameras.



Screenshot ISview

IsView video software

IsView is a very lean, IP-supported video surveillance software for up to 12 cameras, which provides a very good overview and is easy to use. The software can provide live images of up to four cameras per screen. The camera functions can be controlled via touch screen functionality.

NEW - Explosion-protected thermal infrared camera - EC-800-TIC

Our new infrared camera is the perfect addition to any CCTV system that covers an area for 24 hours a day, seven days a week. The infrared images of our camera mean that objects, people or accidents can be observed even in complete darkness or bad ambient conditions such as dust or fog.

No light is necessary.

FOV 25° x 18.75° - Detection of human activity at a distance of up to 215 metres

TIC camera

NEW - Explosion-protected Pan/Tilt/Zoom camera—EC-740-PTZ

This explosion-protected PTZ colour camera is another addition to our successful range of cameras. With its low weight of only 8 kg and IP 69 this camera is suitable for the roughest conditions. The operating temperature range is -40°C to +85°C. The maximum power consumption is a mere 12 Watt (18-30 VDC).

FOV 2.7° up to 48° - ¼"CCD - 18 x optical zoom

PTZ camera

Client-specific example: RigMonitoring-System

Monitoring sensitive, safety-relevant areas on gas or oil rigs requires CCTV recording systems in order to be able to reconstruct accidents, for example, but also to have a better idea of what is going on in the case of technical problems. Recording capacity as well as data security are relevant considerations for this. Films are automatically stamped with digital watermarks to prevent any manipulation at a later date.

This example consists of four compact cameras for zone 1 and one digital recording system for the safe area. The system is network-compliant.

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