HMI Solutions

Oil and Gas Industries

STAHL

STAHL HMI on Oil Rigs

R. STAHL HMI Systems GmbH—member of the R.STAHL Technology Group—has been among the world's leading experts in the development and production of operating and monitoring systems for hazardous and industrial environments for over 25 years. Our high-quality modular Panel PCs and Remote terminals, and our innovative polarization filter displays are among the latest achievements for applications in hazardous areas.

OPEN HMI (Panel PCs) ET-4xx

The Panel PCs are conceived as "ready-to-run" systems: with multilingual Windows Embedded or Windows Professional operating system, they start fast and reliably. It is not necessary to download additional drivers. High-quality, "industrial grade" components and a special front cooling system ensure reliable operation at extreme temperatures ranging from -40°C up to +55°C. All EXICOM Panel PCs come with touch screen as standard and ensure easy and intuitive operation.

HIGHLIGHTS

- ➜ Zone 1 rugged PC workstation
- ➜ Displays 15" / 19"
- ➜ Modular design allows for individual configuration / applications
- ➜ Fast Intel® Atom™ Processors
- ➜ CPU up to 1.6 GHz
- ➜ SSD up to 16 GB
- ➜ Ethernet, USB, serial interfaces
- ➜ No fan, no rotating panels
- ➜ Touch screen as standard
- ➜ Wide temperature range -20°C up to +55°C (with heater and protective screen up to -40°C)
- ➜ ATEX Zone 1, IECEx, DNV, UL, GOST-R

OPTION

- ➜ Innovative 15" polarization display for direct sunlight applications (1000 cd/m²)

Thin Client / Remote HMI ET-5xx

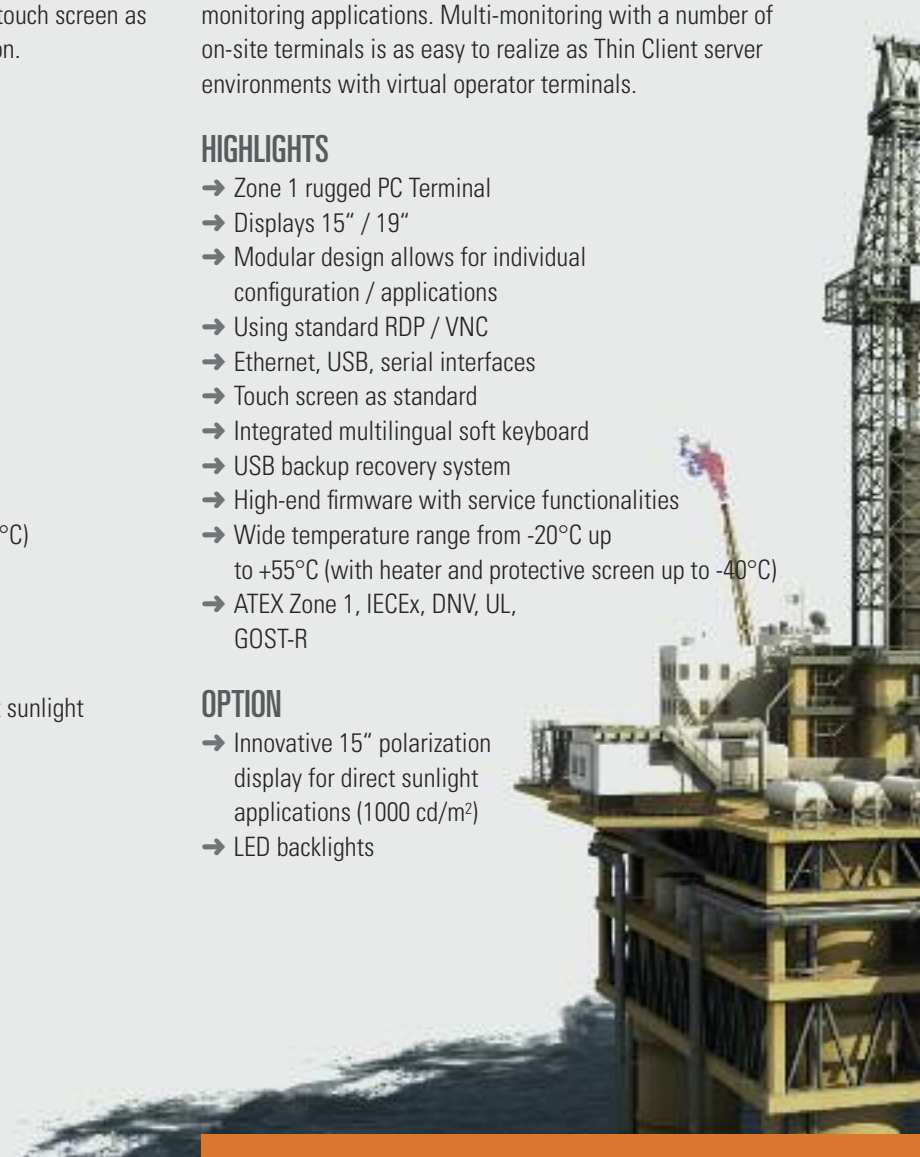
The Thin Client / Remote HMIs of the ET-/MT-5xx series can be implemented in advanced network architectures as Thin Client or with KVM box via KVM over IP. Up to 4 Remote HMIs can use one software license to access one KVM box and communicate with several PCs—suitable, for example, for simultaneous monitoring of production processes and condition monitoring applications. Multi-monitoring with a number of on-site terminals is as easy to realize as Thin Client server environments with virtual operator terminals.

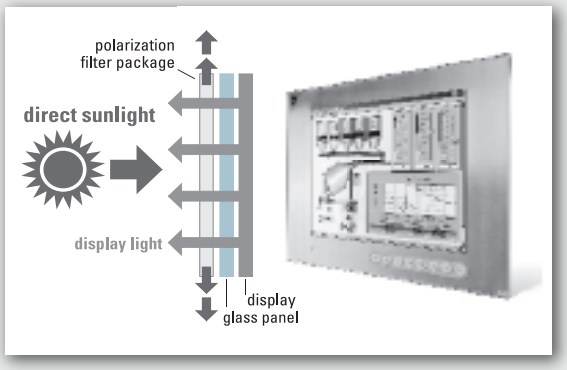
HIGHLIGHTS

- ➜ Zone 1 rugged PC Terminal
- ➜ Displays 15" / 19"
- ➜ Modular design allows for individual configuration / applications
- ➜ Using standard RDP / VNC
- ➜ Ethernet, USB, serial interfaces
- ➜ Touch screen as standard
- ➜ Integrated multilingual soft keyboard
- ➜ USB backup recovery system
- ➜ High-end firmware with service functionalities
- ➜ Wide temperature range from -20°C up to +55°C (with heater and protective screen up to -40°C)
- ➜ ATEX Zone 1, IECEx, DNV, UL, GOST-R

OPTION

- ➜ Innovative 15" polarization display for direct sunlight applications (1000 cd/m²)
- ➜ LED backlights





Rig Floor PC

For the "non-stationary" application on oil and gas rigs R. STAHL HMI is launching adjustable HMI systems. The Rig Floor PCs have been designed for application in hazardous areas of zones 1, 21, 2 and 22, with the industry-specific rough ambient conditions in mind. Users can configure their system from modular components. The basis is either a Panel PC of the OPEN HMI ET-4xx xeries or a Thin Client / Remote HMI of the ET-5xx series. Open HMIs are fitted with energy-saving CPUs of the Intel Atom series up to 1.6 GHz, require no fan and have SSDs instead of conventional hard disks—making them resistant to vibration. All models have back-up and recovery functions via their USB interface. All connection options—including those for HMA optical fibre plugs - are located on the back of the Rig Floor PCs. As an option, the systems can be ordered with displays with the innovative polarization filter technology by R. STAHL HMI which guarantee readability even in direct sunlight.

HIGHLIGHTS

- ➜ Weight < 23.6 kg (50 lbs)
- ➜ Enclosure types variable
- ➜ Ports and connectors on the side
- ➜ Fiber optic HMA connectors
- ➜ Flexible, tough power connectors

OPTION

- ➜ Innovative 15“ polarization display for direct sunlight applications (1000 cd/m²)

The Problem: Direct Sunlight

On oil rigs, on-deck PC operator workstations are often exposed to strong glare which has a major impact on screen readability. But poor readability may lead to misinterpretations and errors that must be avoided at all costs.

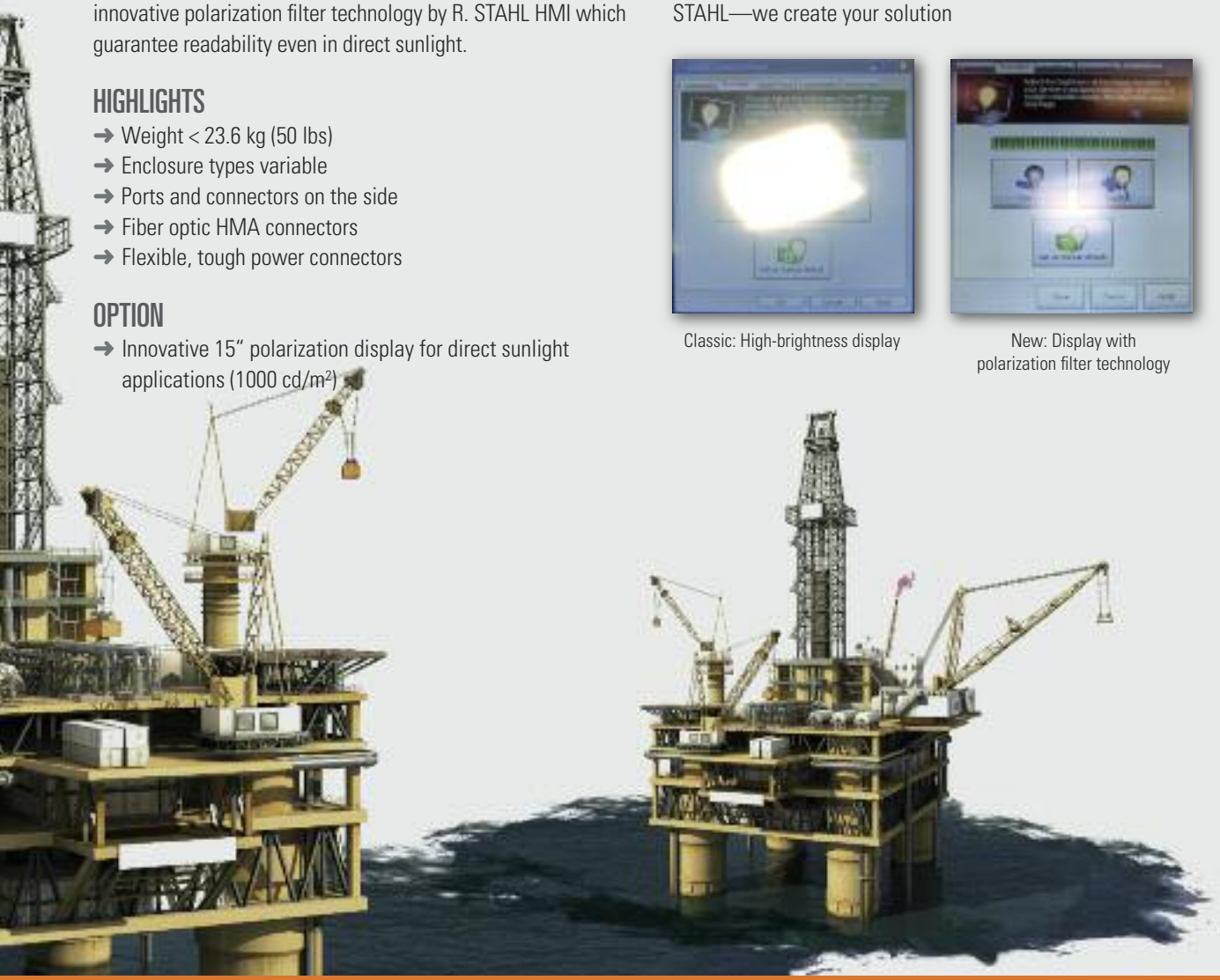
The Solution

STAHL HMI Systems has developed a polarization filter system that deflects the sunlight and significantly improves screen readability, and this helps prevent errors and misinterpretations. Moreover, this polarization filter system offers significant advantages and unparalleled visual effects even compared to more powerful systems without polarization filter system.

STAHL—we create your solution

Classic: High-brightness display

New: Display with polarization filter technology



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