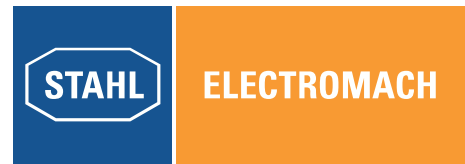


# HMI & Camera Solutions Process Industry



In addition to the guidelines governing hazardous areas, the use of operating and camera technology in the process industry is subject to wide-ranging requirements, e.g. those relating to clean rooms. For years, R. STAHL has met these requirements with its product developments and is able to supply a wide range of tailor-made products.

In hazardous process automation areas the remote operating station continues to be the preferred solution. A frequent problem is that the Remote HMI systems currently on the market have problems with modern, digital interfaces with wide screen format and are not sufficiently flexible for integration into state-of-the-art network solutions.

R. STAHL has products that can do all of these things: connect to older systems with analogue interfaces as well as to newer PCs and modern, server-based systems. The use of standard Ethernet makes the connection to modern networks very easy.

Our latest addition: a combination of wide-screen displays and cutting-edge Thin Client technology .

### The future option

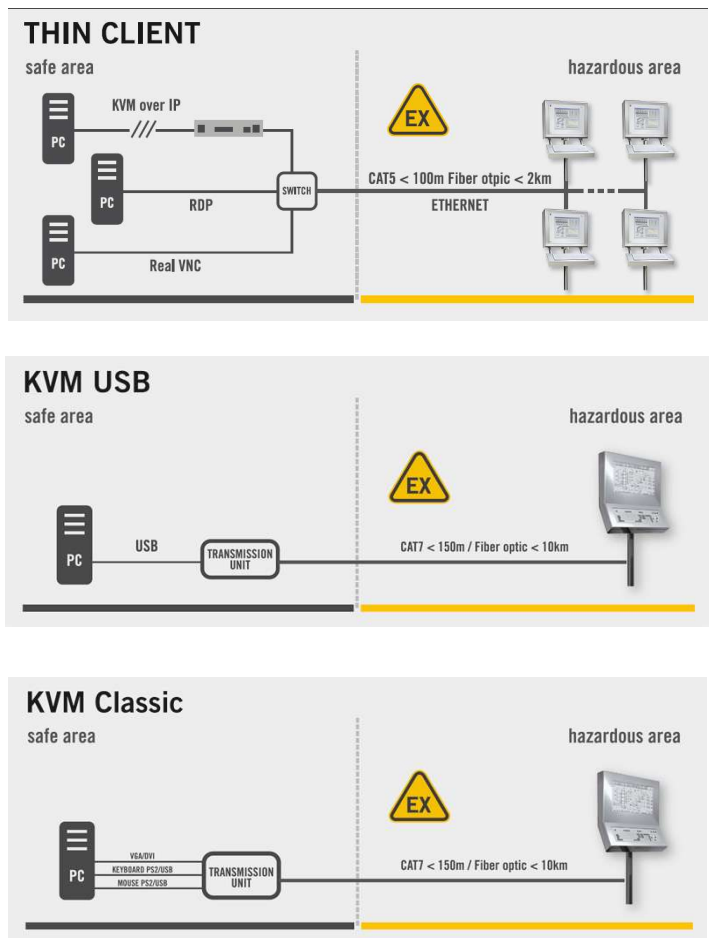
The connection via KVM box, which is our current standard, will in future increasingly give way to modern Thin Client applications. Fortunately for our customers, our new Remote station can do both - connect to a KVM box or function as a Thin Client. If you need several Remote stations but want to keep licensing cost low, up to four Remote stations can be connected via an Ethernet switch to one workstation and thus be connected to the KVM box. Here, all stations will show the same image of the workstation.

### The lean and extremely fast solution

A point-to-point connection that is digital and based on the most up-to-date Windows standard. Connected to the PC via a USB cable, but extremely fast and up to full

### The classic solution

Also a point-to-point connection, and also digital, but with classic DVI and USB connection to the PC. With this, old and new systems can be operated via local stations with screen sizes ranging from 19" to 24" and resolutions ranging from 1280 x 1024 to 1920 x 1080 (Full HD).



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### CCTV solutions

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

### SeeTec video software

This is an Open Platform IP-supported video surveillance and management software, which provides a very good overview and is easy to use. The software provides live control of all connected cameras with floor plans, motion detector, recording and many other functions.

### EC-710 CCTV camera

The compact, explosion-proof EC-710 camera is the smallest camera worldwide for hazardous areas. With a diameter of only 55 millimetres, the camera provides new options for plants with little space.

#### New:

Now with three different viewing angles 33°, 70° and 81° and with mounting part for inspection glass

### EC-750 DOME camera

Be it at sea, onshore or offshore - the Ex-DOME camera can easily withstand rough conditions, because its PTZ system is housed inside a robust dome. This makes the camera waterproof, vibration-proof and shockproof. For a perfect, all-round view the camera can be panned across 360° on a horizontal plane. The tilt angle is  $\pm 90^\circ$ . This way, the camera keeps everything in perfect view.

**New:** Now with optional cleaning system

### Client-specific example: plant monitoring system

The surveillance of safety-relevant areas in industrial facilities places various demands on the system. In addition to easy operation from the control room, remote operation is also required. In this project, dome cameras were installed in zones 1 and 2, and digital recordings were made. Cameras are controlled via mouse and joystick. The video surveillance and recording are server-based and can be remotely controlled via the internet.



Compact camera



DOME camera



Plant view: Linde Gáz Magyarország Zrt (Linde Group, Kazincbarcika in Hungary)



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