



Camera- and Illumination Systems for Hazardous Areas



 **SAMCON**
Explosion Proof Cameras

About SAMCON - Who are we?



SAMCON Processleittechnik GmbH is a medium-sized company founded in 1992 and based in the middle of Europe, in the middle of Germany and in the middle of Hesse. We have been a certified manufacturer of explosion-proof device technology since 2008 (EU Directive 94/9/EC (ATEX) - today 2014/34/EU) and are now certified for global markets (ISO 9001:2008 and IECEx QAR). The quality of our products is regularly audited and confirmed by testing and notified bodies (German TÜV or DEKRA).

Our team currently consists of 20 employees and SAMCON produces exclusively at our location in Germany. With 6 employees in the areas of development and research, we are continually expanding our technological lead in the industry with the help of universities and research centers.

Our top directive is to continually improve the security and performance of our devices.

Our Products - What do we do?



SAMCON Processleittechnik GmbH develops, produces and sells camera systems and lighting systems for potentially explosive areas.

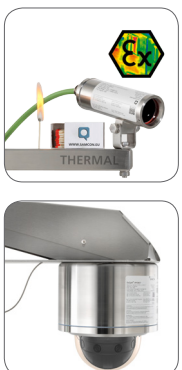
The range ranges from

- Simple camera systems that are visualized via monitor up to
- complex CCTV camera systems with integrated or external lighting for integration into video management systems with voice attachment to increase occupational safety.

We also develop and produce installation accessories such as


- Cables and lines with special suitability for potentially explosive areas (DIN EN 60078-14 and Category 6A according to IEC 61156-5 Ed-2), flame-retardant, robust, suitable for use in extreme temperature ranges, resistant to a variety of media
- Connection systems for hazardous areas (ExConnection Rails) and
- various mounting systems (wall brackets, washing/cleaning systems).

Our Motivation - Why are we doing this?



20 years ago, SAMCON Processleittechnik GmbH began developing camera systems because, based on our quality criteria, we had not found any adequate solutions on the market. Our housings, made from high-quality, corrosion-resistant materials, are developed so that they can be used and installed in combination with our ExCam/liteServer series in chemically aggressive, explosive environments.

Furthermore, the ExCam/liteServer series are characterized by simple connection technology or even fully integrated one-cable solutions that simply need to be led out of the hazardous area and can then be connected in the safe area. The most important thing here is device security. It must be ensured that all devices comply with national and international regulations in order to prevent the cameras or lights from posing dangers or generating ignitable sparks.



For us, customer orientation and customer satisfaction do not just mean delivery of the ordered device technology. We always deliver the optimal solution for our customers:

- Quality of planning
- Can be integrated into existing infrastructure
- Perfectly thought-out device technology
- Security
- Easy installation by customer
- Support during initial commissioning in hazardous areas and
- We are also available for maintenance support, repairs and help during ongoing operations.

Our Customers - Who are we doing this for?

Our global customers, often internationally operating corporations, operate systems in potentially explosive areas. The danger of gas and dust explosions and the risk of explosions in mines and mines are among the areas of application of our camera and lighting systems.

Our systems are used, for example, in offshore plants, chemical and petrochemical industrial companies, smaller operators of biogas plants or pipeline operators who are responsible for transporting energy. Fast-growing industries include alternative energies, such as hydrogen plants or modern ships that run on LNG.

Our IP-based Ex camera systems offer worldwide access (for example via secure VPN tunnels). This means the cameras can be viewed and controlled from anywhere in the world. The ex-camera can also send its information, for example from a remote biogas plant, directly to the workplace. In combination with the Ex lighting systems, lighting conditions can also be optimized, as process lighting in apparatus and mechanical engineering, but also as outdoor lighting, e.g. on drilling platforms.

The Industries of our Customers



Explosionproof Cameras for Oil- and Gas Industry.

Oil and gas are important energy sources and are difficult to replace, especially for mobile applications. Cameras enable upstream, midstream and downstream oil and gas activities to be monitored and documented safely and effectively; Regardless of whether it is an oil well, pipeline, compressor station, refinery or tank farm, cameras increase security. Our ExCam series is extremely robust: The weatherproof stainless steel housing is IP68 dustproof and waterproof against temporary submersion.



Chemical Industry.

Chemical plants are extensive. Large areas can be overlooked. Many processes take place at the same time. Distances are great; Safety standards high. The level of automation in the chemical industry is high. Devices have to provide 100% power especially where people cannot work or can only work to a limited extent - be it because of high pressure, extreme temperatures or hostile atmospheres. Our devices are designed for corrosive, acidic or sulfurous atmospheres.



Pharma Industry.

Development and research of new active ingredients is important. Existing processes are constantly optimized and aligned with applicable regulations. Better and better medicines have to be manufactured more and more cost-effectively in order to survive global competition. Not only the quality and purity of the products play a major role, but also system safety. Our camera systems increase the level of automation in pharmaceutical production systems.



Safety and Reliability on the high Seas - Marine and Vessel.

The sea is definitely one of the most demanding environments on earth. Devices used here must withstand corrosive salt water, storms and extreme temperatures. This is why equipment that can withstand these harshest environmental conditions is required in the marine and shipping sectors, in the transport of liquefied natural gas ("Liquefied Natural Gas"; LNG for short), its use as a drive for ships, as well as in tough offshore use.



Cameras for Mechanical Engineering.

In mechanical engineering, cameras and optical sensors have long been an essential part of control systems. A general distinction is made between two use cases: video surveillance and industrial image processing. What both use cases have in common is that SAMCON cameras at least partially give machines the ability to see and make human decisions.



Solutions for the Power Plant- and Energy Industry.

In order for biogas plants to be optimally controlled and operated as efficiently as possible, plant operators need certain information: What is the condition of the biomass (substrate) in the fermenter? How high is the filling level? Do solids float on the surface? Does the substrate foam? Is the agitator still working properly? SAMCON cameras answer these questions.



Solutions for Critical Infrastructure / Transportation.

These sectors include, for example, water, energy, waste disposal and now also IT organizations or companies. Specific industry examples include petrochemical plants, offshore platforms and also mines. The importance is reflected in the comprehensive regulations and specifications. The sustainable efficiency of the systems in question is always a priority and must be guaranteed even in crises. SAMCON network devices can provide useful and easily accessible insights into critical infrastructure locations thanks to intelligent analytics capabilities.