

Industrial Video Solutions

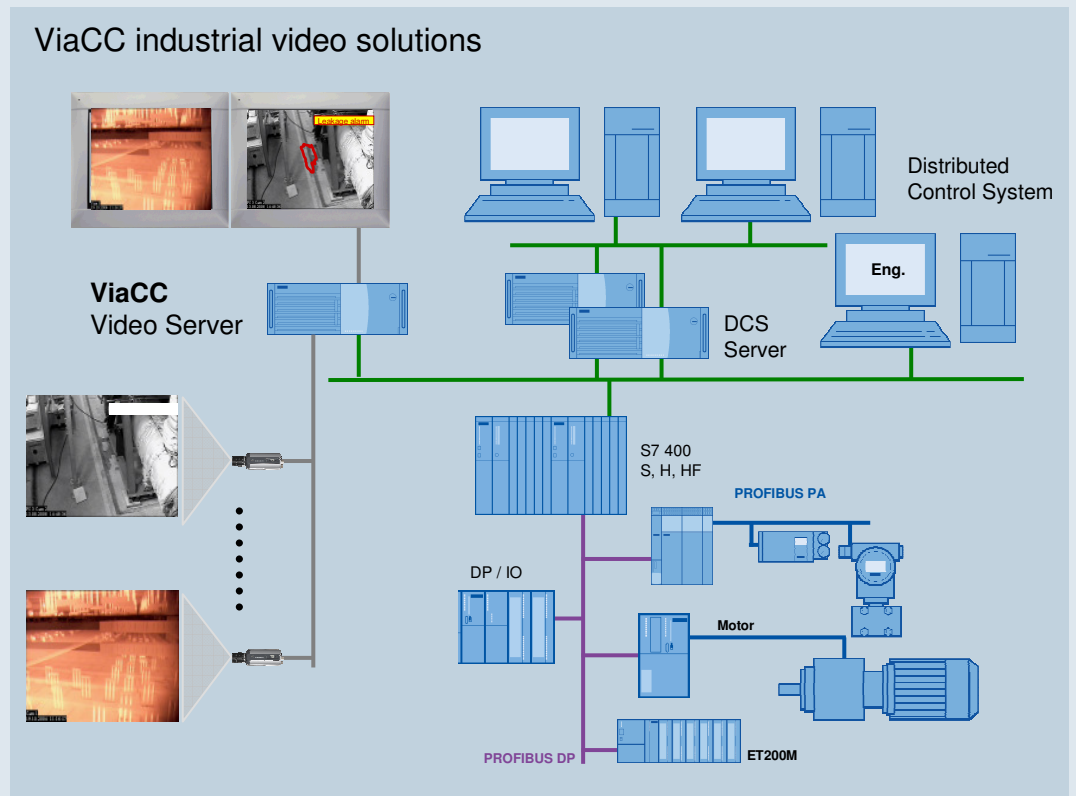
In modern industry solutions with their dedicated branches - energy, glass, steel, etc.- dedicated video solutions fully integrated into the process automation systems enhance the operation of the plant and automation systems.

Our available and field proven ViaCC video solutions already offer a broad variety of trend setting features and are both scalable for and adaptable to dedicated customer requirements. The solutions can also be customized and/or extended with new features and functions.

The following list provides an overview of already available features and performance values of our industrial video solutions.

Features of our industrial video solutions

- Visual surveillance of process through parallel monitoring of video and process data
- Direct connection to process control system (via: Function Block, MODBUS/TCP, OPC)
- Automatic process control based on data of the video analysis
- Recording of all video and data information in a ring storage for later analysis
- Remote access to live video pictures and video archives via LAN (Video Server functionality)
- Minimum network load due to MPEG4 compression and multicast technology
- Marker settings (line/area) directly in the video frame
- User friendly video search for video archive (search functions, time line, USB-backup etc.)
- Client integration in WinCC / PCS 7 / T2000-T3000 / Teleperm XP
- Easy customizing to specific requirements



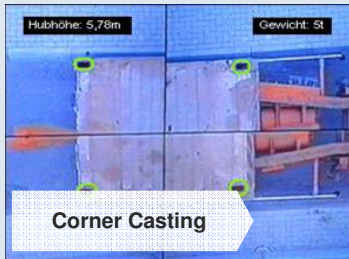
ViaCC video systems for automation

Industry video solutions



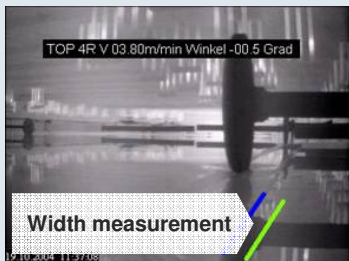
Power Plants: Steam, smoke, liquid leakage detection

- High performance video based detection for any kind of observable smokes, gases, steam or liquids
- Fully integrated into the SPPA T2000/3000 and Teleperm XP process control system
- Steam, smoke, liquid alarms are recorded in the process archive of T2000/3000 and Teleperm XP
- Direct visualization of critical and relevant process data within the live video stream
- Live image can be displayed in parallel to the process graphic
- Ideal solution for early warnings and preventive maintenance, visual remote diagnostic and possible reduction of on site inspections



Crane solution: Corner Casting and video display at control room

- Remote control of the loading process from the control room
- Text display of process data, for example height and weight, container lock/unlock, transaction number to support the crane operator within the video stream
- Positioning support via video analysis algorithm (Corner Casting)
- OCR aided container number detection
- Robust and ruggedized solution proven in multiple port installations
- Fully integrated into PCS 7 (Function Blocks)



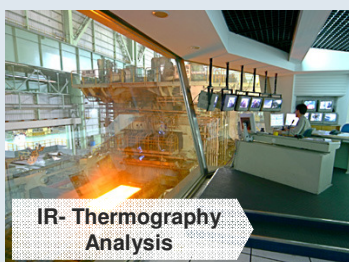
Glass industry: Video display Top roller

- Monitor and control production process from the control room
- Parallel text display of process data, for example velocity, temperature, angle etc.
- Marker settings (line/area) directly in the video frame
- Automatic spread control through width measurement in the video frame
- Recording of the production process in a ring storage
- Analysis features for later investigation of process flow deviations
- Fully integrated into PCS 7 (Function Blocks)



Cement plant: Video display at control room

- Monitor and control the cement production process from the control room
- Display of process data
- Operator support
- Recording of the production process in a ring storage
- Analysis features for later investigation in case of deviations
- Fully integrated into PCS 7 (Function Blocks)



Steel industry: IR thermography analysis

- Monitor and control the steel production process from the control room
- Display of process data
- Operator support
- Recording of the production process in a ring storage
- Analysis features for later investigation in case of deviations
- Fully integrated into PCS 7 (Function Blocks)

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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing contract.