

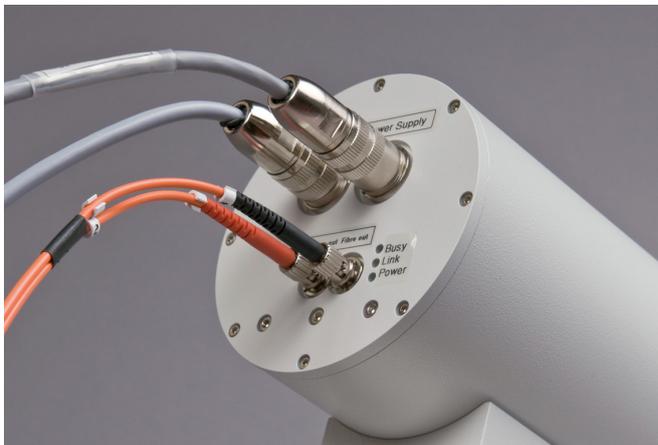
## Special CCTV solution for HVDC

HVDC power stations are high tech facilities which need to work 24/7 and thus they need to be thoroughly surveyed.

The field strengths in the vicinity of converters used in HVDC power stations are so high that regular CCTV cameras do not work any more.

PONTIS EMC is specialised in CCTV systems that are suited to operate in environments with high electromagnetic field strengths.

We offer a solution for the surveillance of HVDC converter halls.



## Shielded IP Camera

The PONTIS EMC cameras work in field strengths up to 200V/m.

The cameras support HD-Video with a resolution up to 1920\*1080 (HD1080p) transmitted via various protocols (TCP/IP, SMTP, etc.) to any PC in the network.

As the camera supports ONVIF it can be used with various CCTV software solutions.

The signal transmission is via fibre connections to avoid any interference with electromagnetic fields.

The signals are converted to regular Ethernet and so the cameras can be seamlessly integrated into the surveillance system of the HVDC facility.

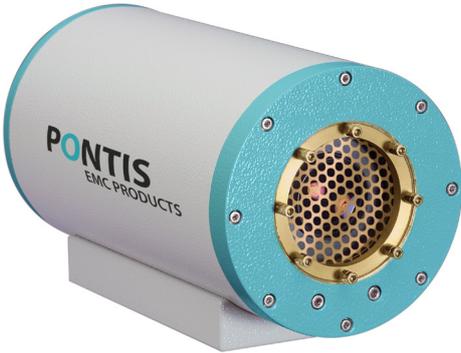


## IR Illumination

Optionally shielded IR illumination can be added to the cameras to allow to look into the converter hall during the operation when there is no lighting on.

The lamp produces 4200mW (60LEDs @850nm) for a sight of up to 30m.

# Shielded CCTV for HVDC Converter Halls



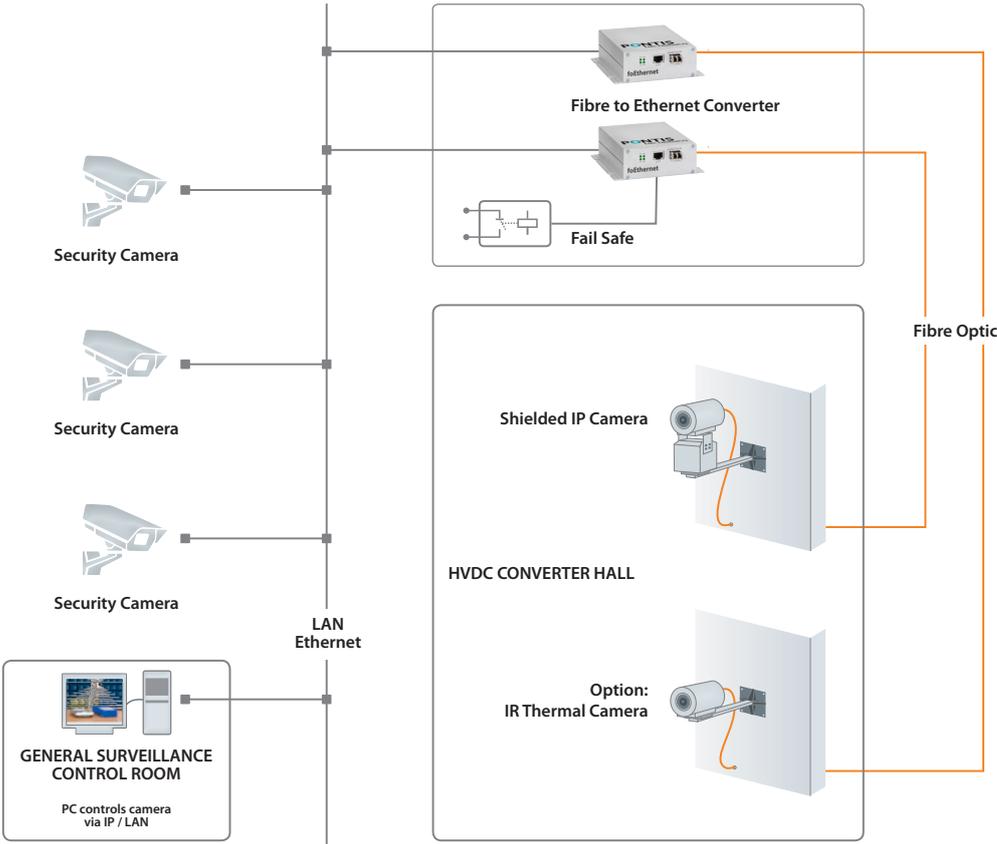
## IR Thermal Camera

In order to secure that the converters do not over heat, we also offer a shielded thermal camera. The camera can be controlled via SW over the network.

You can define the area of interest, temperature and more. A "fail safe" contact is set whenever a defined condition is reached (e.g. "temperature too high") or the camera does not work any more.

The camera covers an area of up to 12m\*19m. Other lenses that cover different areas can be supplied on request.

## System Overview



PONTIS EMC Products designed and manufactured by:

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