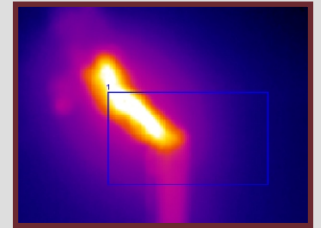
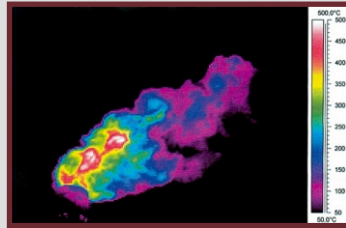


Flare monitoring

IrFlareMonitor - Thermographic monitoring of flares



Burning off excessive gases is a usual process in the chemical and petrochemical industries which needs of a steady supervision. Now by the market launch of the low budget infrared cameras, thermography offers a prize-affordable alternative to the present supervision technologies.

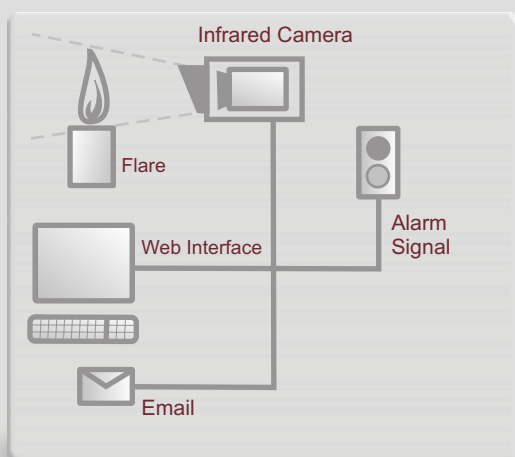
Up to now, flare monitoring was realised using thermocouples or visual video technology. Both technologies have certain disadvantages compared with the infrared imaging technology: Temperature sensors are often installed directly in the flame or in its immediate surroundings. The problem is that they have to stand out extreme temperatures and hereby wear out very quickly. The result: high repair costs and high servicing expenditure.

The visual video technology seems to be compared with a better recognition method. It determines without touch and from a bigger distance the state of the flame. But if the flame is colorless or it is turned away by the wind, then this kind of the supervision will fail as well.

measurements at the same time. Consequently the flame is shown full of contrast in every weather.

With the help of integrated imaging procedures, alarm signals can be generated by digital outputs and sent to security systems. The connection through TCP/IP offers easy configuration and comfortable visualisation on monitors.

Automation Technology GmbH delivers as a distribution partner of leading manufacturers of infrared cameras also housings for harsh environments and ex-areas.



Picture: Principle of flare monitoring

Advantages compared with conventional technologies:

- Contact-free temperature measurements
- Picture-giving measuring procedure
- Recognition of colorless flames
- Measurement from bigger distance (e.g. Outside from ex-areas)
- High measuring accuracy (<50mK)
- Sensor and evaluation in one enclosure
- Easy and quick assembly and configuration
- Digital alarm outputs included
- Configuration through LAN (TCP/IP)
- Video Out
- Email-notification function...

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