



Insight with far-sight:
VISULEX camera systems

Lumiglas
Product overview

PAPENMEIER

The VISULEX camera system is ideal for the inspection, documentation and remote monitoring of process operations in potentially explosive and aseptic environments.

The choice of camera system to be used depends on the application:

The standard camera system

is made up of a camera with fixed lens, a camera cable and a terminal box. There is a choice of lenses with a viewing angle between 28° and 60°.

The camera image position is aligned during installation to focus on the object to be monitored. The maximum cable length between the camera and the terminal box is 100 metres. The video signal is provided at the terminal box and can be fed to the network via a video server. As a further option, the video signal can be shown directly on a screen.

The advanced camera system

consists of a camera with zoom lens, a camera cable and a camera rack with control module. An intermediate control unit is responsible for the mains supply and camera

controls. The image signal from the control unit can be fed directly to a screen or video server.

Optionally, the camera can also be remote controlled using the Windows-based "LumiCam" programme. Integrated functions such as zoom, focus, aperture, shutter, gain, documentation aids and pre-setting options ensure additional convenience. The images can be processed and stored on the PC and, if necessary, transmitted throughout the company in real time via LAN.

Link-up to a host system:

The video server is simple to retrieve via an IP address (image signal only). An Active-X module is available when "LumiCam" software is used together with the internal video server. This is ideal, e.g. for linking to a host system under Win CC.

The long-term availability of visual process data in the central control room saves considerable costs, working time and effort. It is no longer necessary to conduct an on-site inspection of critical production areas or external facilities – a contribution to accident prevention!



All the advantages at a glance:

- Simple installation and operation
- Minimal space requirement
- Data transfer in the Ex environment up to 500 m via video cable and/or worldwide via the internet
- Image presentation on screen/PC
- Single images or video sequences can be stored for traceability purposes
- Ideal for presentations to large viewer groups
- Ideal combination with Lumistar luminaires
- Stainless steel housing for use in aseptic areas

Complete, single-source solution:

Lumiglas offer complete, project-specific services tailored to the technical requirements of the plant operator (installation, commissioning, PC link-up, including all the necessary components).

How does the VISULEX camera system work?



The central element of the camera system is the VISULEX Ex camera; this can either be mounted on a sight glass fitted to the reactor or set up outdoors (at a gate, tank depot, etc.) for monitoring property and plant.

The captured images are transmitted to a screen in the control room by way of a cable which can be up to 500 m long.

A control unit wired into the circuit provides power for the camera and controls the camera.

The images can be processed and stored on the PC and, if necessary, transmitted throughout the company in real time via LAN.

Overview of all versions of the VISULEX cameras:



VISULEX Ex-Camera K06-Ex aluminium, with fixed lens

II 2G Ex de IIC T6 Gb
II 2G Ex tb IIIC T80°C Db

The lens of this camera is set during installation to focus on the property or object to be monitored. This can be an outdoor area, outdoor facility or part of a technical process. Maximum transmission path: 500 m



VISULEX Ex-Camera K07-Ex aluminium, with zoom lens

II 2G Ex de IIC T6 Gb
II 2G Ex tb IIIC T80°C Db

The zoom lens of this camera is externally operated by remote control from the control room. The person monitoring can adjust any of the technical settings to meet his individual requirements.



VISULEX Ex-Camera K25-Ex stainless steel, with zoom lens

II 2G Ex d IIC T6 Gb
II 2G Ex tb IIIC T80°C Db

The zoom lens of this stainless steel camera is externally operated by remote control from the control room. The person monitoring can adjust any of the technical settings to meet his individual requirements. Also suitable for sterile environments.



VISULEX Ex-Camera K55-Ex stainless steel, with fixed lens

II 2G Ex d IIC T6 Gb
II 2G Ex tb IIIC T80°C Db

The lens of this camera is set during installation to focus on the property or object to be monitored.

- Up to max. 100 m transmission route without internal amplifier
- Built-in colour CCD camera
- Lens with 28°-60° viewing angle



VISULEX Camera K15 stainless steel, with fixed lens or zoom lens

The zoom lens of this stainless steel camera is externally operated by remote control from the control room.

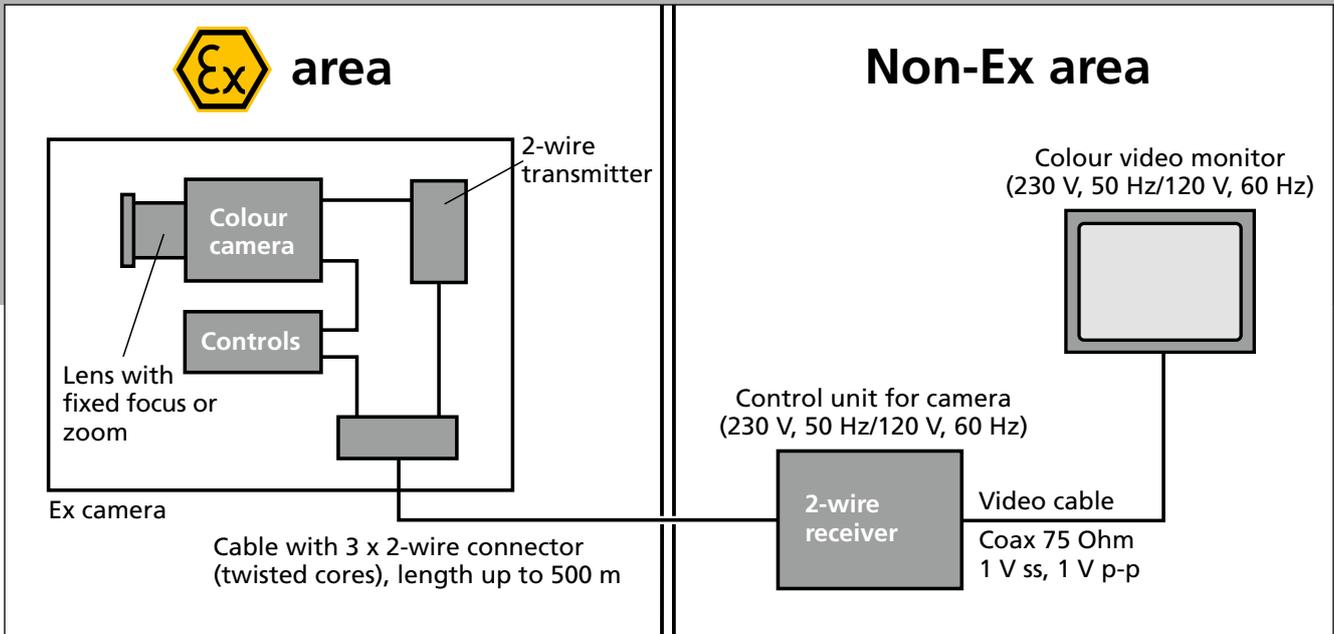
- The person monitoring can adjust any of the technical settings to meet his individual requirements.
- 2-cable solution (video signal cable and separate power supply)
 - Up to max. 100 m transmission route without internal amplifier



VISULEX Kamera K55 stainless steel, with fixed lens and terminal box

The lens of this camera is set during installation to focus on the property or object to be monitored.

- Single-cable solution (combined video signal cable and power supply)
- Up to max. 100 m transmission route without internal amplifier



System requirement for monitor:

- Any type of standard industrial screen can be connected, provided the following specifications are met:
- Power supply: 230 V, 50 Hz or 120 V, 60 Hz
 - Receive signal: 75 Ω 1 V ss
 - 75 Ω BNC coax cable needed

System requirement for PC:
(for LumiCam software)

- Mains connection, Ethernet 1000 Win 7, Win 8 and Win 10
- Screen resolution at least 800 x 600 pixel
- Intel Pentium 4 processor or higher

The main functions of the VISULEX Ex camera can be operated either from the PC or via the control unit.

Technical data sheets

are available for all VISULEX Ex camera versions, including control units. Requests for data sheets should be sent separately!

To arrange a personal consultation or a practical demonstration, please contact us at:

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