

# Camera system

## Series miniZoom, for use in hazardous areas



Ex camera miniZoom, stainless steel enclosure  
Ex d IIB T6, Ex tD A21 IP67 T80°C, Ex II 2 G + D.

The VIDEOLUX miniZoom, equipped with state of the art technology, is the **smallest camera with zoom for hazardous areas currently available in its class**. Despite its small dimensions, the standard version is already equipped with a motorized 10 times zoom lens. This feature allows the user to set up the camera for a precise angle of vision or for a particular lighting situation. The miniZoom may be used for interior as well as for applications outside of buildings.

Thanks to the VISCA® communication protocol, the camera can not only be implemented into existing CCTV applications but for industrial picture processing as well. **This makes it a unique product on the market in its class.**

**The VIDEOLUX miniZoom is certified for dust and gas hazardous areas according to the European Directive 94/9/EC (ATEX).** The safety flameproof enclosures in stainless steel are designed pursuant to IP67. The borosilicate glass of the enclosure is scratch resistant and free from any optical distortion.

The allowed **ambient temperature** of use covers a wide range of applications: **From 0 °C to + 50°C in the standard version, or even from - 20 °C to + 50 °C with the optional integrated heating.**

In case of short distance into the hazardous area and / or for analog real-time applications the camera can be controlled and configured from a safe area by a control panel / joystick. The sequence may be displayed on a conventional screen with analog coaxial input (without PC).

The analog composite signal can be converted into a digital video stream using our **"Connection Rail"** which is available for safe and hazardous areas. The "Connection Rail" consists among other things of a video server, which is not only able to display the digital video stream but also to control the camera via a conventional PC. Simultaneous MPEG-4- and Motion JPEG video streams allow optimized picture quality and bandwidth usage of Ethernet networks.

#### Fixation systems:

- Tilting hinge ...Sch
- Flange collar ...R
- Wall and ceiling fixing system

#### Accessories:

- Sun protection roof
- Anti-dazzle shield ("baseball" cap)
- Supply cable
- Integrated heating
- Connection Rail

## Technical data



Ex camera miniZoom, stainless steel enclosure, Ex d IIB T6, Ex tD A21 IP67 T80°C, Ex II 2 G + D, with wall fixing system.

### ATEX certification according to Directive 94/9/EC:

- Ex II 2G (zones 1 and 2)
- Ex II 2D (zones 21 and 22)

### Protection against explosions (gas hazardous areas):

- Ex d IIB T6 (standard version)
- Ex d IIC T6 (on demand)

### Protection against explosions (dust hazardous areas):

Ex tD A21 IP67 T80°C

### Allowed ambient temperature of use:

- 0 °C to + 50 °C (standard version)
- - 20 °C to + 50 °C (with integrated heating)

**Enclosure protection degree:** IP 67, dust and water jet tight to EN 60529 / DIN VDE 0470 part 1

**Power consumption:** Max. 2,5 W, with integrated heating max. 10 W

**Power supply:** 12 V DC to 30 V DC

### Video-optical specifications:

¼" type EX-view HAD CCD sensor

Pixels PAL: 752(H) x 582 (V)

NTSC: 768(H) x 494 (V)

Horizontal resolution PAL: 460 TV lines

NTSC: 470 TV lines

Minimum lighting of object: 1,5 Lux

Signal / noise ratio: > 50 dB

### Optical lens:

Optical zoom: 10 times, adjustable (additional digital zoom: 4 times)

Minimum distance lens/object: 10 mm (WIDE)

Focal length: f = 4,2 (WIDE) to 42,0 mm (TELE)

Horizontal angle of vision: 46° (WIDE) to 4,6° (TELE)

**Video signal:** Analog composite signal through 75 Ohm coaxial cable

**Control signal:** VISCA communication protocol through RS-422 interface

### Dimensions (mm):

Ø79 x H 128 (without cable gland)

Do you wish for more information about our wide range of light fittings for use in hazardous and safe areas, about our range of circular sightglasses to DIN 28120/28121, screwed sightglasses similar to DIN 11851, rectangular or D-ended sightglasses, pipeline flow indicators, centrally or sideways operated wipers, hinged sightglasses, spraying devices or our complete sight and lightglass units VETROLUX®? Are you interested in other types, special versions or different protection degrees? If yes, please contact us, our branch office or our local agents – it is our business! You will find the necessary indications about our sales network on the Internet.