

# Camera system

## Series Vario, for use in hazardous areas



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

The VIDEOLUX Vario, equipped with state of the art technology, is the **smallest varifocal camera for hazardous areas currently available in its class**. Despite its small dimensions, the standard version is already equipped with a varifocal lens and a DC iris. The VIDEOLUX Vario may be used for interior as well as for applications outside of buildings.

**The VIDEOLUX Vario is certified for dust and gas hazardous areas according to the European Directive 94/9/EC (ATEX).** The safety flameproof enclosure is available alternatively in stainless steel or in aluminum alloy casting. The enclosures are designed to IP67. The borosilicate glass of the enclosure is scratch resistant and free from any optical distortion. The allowed **ambient temperature of use from - 20 °C to + 50 °C** covers a wide range of applications.

### Explosion proof camera with manually adjustable lens

With its manually adjustable lens, the VIDEOLUX Vario closes a product gap within our range of controllable industrial camera systems such as the VIDEOLUX miniZoom or the VIDEOLUX niteZoom. During installation, the camera once is adjusted to an object (zoom and focus). Thanks to the integrated DC iris and auto IR cut filter, the VIDEOLUX Vario is performing exceptionally well in changing lighting conditions.

### 1/3" Super HAD Interline Transfer CCD Sensor

Excellent image quality, very high sensitivity, high resolution. The VIDEOLUX Vario with its the newly-developed Super HAD CCD sensor offers significantly improved sensitivity and colour reproduction compared to other sensors. In addition, the camera can operate with a minimum illumination of 0.15 Lux, resulting in a significantly improved image quality under limited lighting conditions. By combining a powerful DSP with this new CCD sensor, the camera achieves a high horizontal resolution of 540 TV lines.

### Day/Night Function

The VIDEOLUX Vario features a day/night function, which provides for optimum sensitivity and image quality in both day and night shooting conditions. As soon as the illumination of the scene decreases below a set value, the infrared filter is automatically removed. The camera then switches to B&W mode, which enables it to operate with a minimum illumination of 0.15 Lux (AGC-Turbo, B/W).



Ex camera Vario, aluminium alloy enclosure, Ex d IIC T6, Ex tD A21 IP67 T80°C, Ex II 2 G + D, with wall fixing system.

## Technical data



Ex camera Vario, aluminium alloy enclosure, Ex d IIC T6, Ex tD A21 IP67 T80°C, Ex II 2 G + D.



Ex camera Vario, 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 2 G (zones 1 and 2), Ex II 2 D (zones 21 and 22)

### Protection against explosions:

Gas: Ex d IIB T6 (standard version), Ex d IIC T6 (on demand)  
Dust: Ex tD A21 IP67 T80°C

### Allowed ambient temperature of use:

- 20 °C to + 50 °C

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

**Power consumption:** Max. 6,5 W

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

**Reference power:** 24 V DC

**Power input:** Ca. 530 mA

### Video-optical specifications:

Sensor: 1/3" CCD Sony Super HAD Interline Transfer  
Effective sensor resolution: PAL: 440.000 pixels (ca. 752 x 582)  
Horizontal resolution: 540 TV lines  
Minimum lighting of object: 0,15 Lux  
Recommended lighting: 0,5 - 100.000 Lux  
Signal / noise ratio: 48 dB

### Optical lens:

Optical: Varifocal  
Minimum distance lens/object: 150 mm  
Focal length: f = 3,8 (WIDE) to 9,5 mm (TELE)  
Horizontal angle of vision: 74,2° (WIDE) to 30° (TELE)

### Electronic functions:

DC iris control  
Electronic shutter control (ESC)  
Digital signal processing (DSP)  
Back light compensation (BLC)  
Automatic white balance (ATW)  
Removable IR CUT filter (ICR)  
Automatic gain control (AGC)  
FBAS (VBS) video output: 1 Vpp

### Dimensions (mm):

Aluminium enclosure: Ø100 x H 163 (without cable gland)  
Stainless steel enclosure: Ø79 x H 128 (without cable gland)

### Fixation systems:

Tilting hinge ...Sch (for stainless steel version)  
Flange collar ...R (for aluminium and stainless steel version)  
Fixation bracket ...W (for aluminium version)  
Side feet ...X1 (for aluminium version)  
Wall and ceiling fixing system (in aluminium alloy or stainless steel)

### Accessories:

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

All dimensions in mm. Subject to changes without preliminary notice.