VISULEX K55-HD-Ex and K55-4K-Ex II 2G Ex db IIC T6 Gb II 2D Ex tb IIIC T80°C Db Cameras

Description:

The VISULEX K55-HD-Ex/K55-4K-Ex camera is a fixed-lens camera. With this standard camera, the lens is fixed to the object to be observed during installation (outdoor area/plant exterior or also on technical process control parts such as agitators...). The temperatures specified in the technical data sheet for the camera type must be observed for trouble-free operation. The power supply (Power over Ethernet) is provided exclusively through the supplied network cable (max. 60 m).

Design and Application Area:

- tainless steel pressure-resistant housing with an integrated HD/4K network camera, electronic components, and stainless steel support.
- Approved for Ex zones 1 and 2, as well as zones 21 and 22.

Electrical and General Technical Data:

- Camera power supply: PoE (Power over Ethernet)
- Maximum power consumption: 5 W
- Camera protection class: IP65 according to standard EN 60529 / DIN VDE 0470 part 1.
- European Union Type Examination Certificate: BVS 15 ATEX E 056 X II 2G Ex db IIC T6 Gb II 2D Ex tb IIIC T80°C Db

Marking:

The camera is permanently identified, visible, and legible by a nameplate containing the following information:

- Manufacturer's name and address
- Camera type: K55-HD-Ex/K55-4K-Ex
- II 2G Ex db IIC T6 Gb; II 2D Ex tb IIIC T80°C Db
- Ambient temperature range: 0°C to +40°C
- Certificate number
- Warning: Do not open under power - wait four minutes after power-off before opening.
- Production number/year of manufacture
- Power supply voltage
- Power consumption
- IP65 protection class - CE marking / Certification authority number
- The warnings on the label must be observed.

Camera and/or Electronics Replacement:

- Any potential camera replacement can only be carried out by the manufacturer or at the manufacturer's factory (F.H. Papenmeier GmbH & Co. KG).

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Connection Cable
- Connection Cable: ETHERLINE® Cat. 7 FLEX with PUR outer sheath and UL approval; construction 4x2xAWG26/7.
- Length: max. 60 m (197 feet) at 100 Mbps; max. 60 m (197 feet) at 10 Gbps.
- The connection cable must be installed to avoid static load. The network cable length must be at least 1 meter (3.3 feet).

Connecting the K55-HD-Ex/K55-4K-Ex Camera:
- Connect the camera using the standard RJ-45 cable for network connection.
- For connection to a PC, typically a crossover cable is required, while a direct (patch) cable is used for connection to a switch.
- To power the camera, a switch with the PoE (Power over Ethernet) function can be used.
- Connect the camera directly to your PoE switch. (Power for the camera is only possible via PoE). If your switch does not have the PoE function, a PoE injector is required.
- The IP address is automatically assigned via DHCP. If your network does not have a DHCP server, the default IP address is 192.168.1.10.
- To configure the camera, both devices (camera and PC) must be in the same IP address range (e.g., camera 192.168.1.10, desktop computer 192.168.1.11).
- For high-quality live image viewing, Internet Explorer is recommended (Safari, Mozilla Firefox, Opera, and Google Chrome are also supported).
- Note: To stream video in Microsoft Internet Explorer, configure your browser to allow ActiveX controls.

Access via Browser:
- Open a browser.
- Enter the IP address or hostname of the network camera in the URL field (address bar) of your browser. The homepage will appear. Click on "Live View" (real-time monitoring), "Playback," or "Setup" to open the corresponding web page.

To provide access to the camera, the default administrator password must be set. This is done in the "Admin Password" dialog that appears the first time you open the camera network configuration. Enter your administrator username and the password defined by the administrator.
Note: The default administrator username and password are "admin".

Remarque : Le nom d'administrateur et le mot de passe par défaut sont "admin".
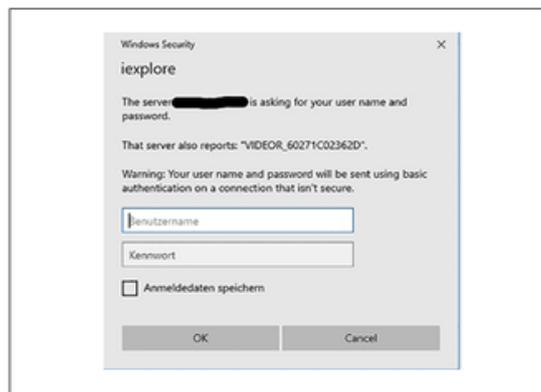
Default Login Credentials:
- Username: admin
- Password: admin
- If the password is lost, the network camera must be reset to factory settings. Refer to the "Factory Reset" section.
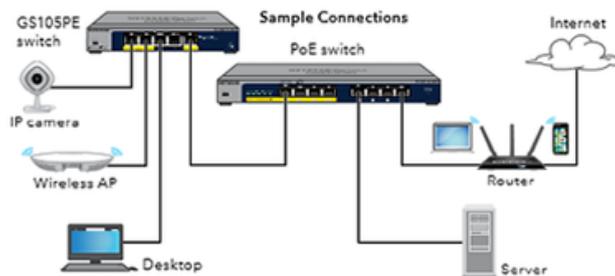
Exemple d'installation pour un réseau avec un commutateur PoE :

Exemple d'installation avec injecteur PoE :

Boîte de dialogue "Mot de passe administrateur" :

Page d'accueil de configuration de la caméra :

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Language Selection
- To change the national language, go to System → Language.

Enable DHCP or Change IP Address
System → Network → Basic Settings

Factory Settings
- To reset the network camera to factory settings, go to the Web page Configuration → System → Maintenance.
- Note: When resetting to factory settings, your individual settings will be lost. (Default IP address: 192.168.1.10)

Live View Page
- The live view page can be displayed in different modes. Users can select the mode that suits them. Please adjust the mode according to your PC's performance and the required monitoring objective.

Live View Page
- Use the video drop-down list to display a configured or pre-programmed video stream on the live view page. Stream profiles are defined under Configuration → Basic Configuration → Video and Image.
- In the resolution drop-down list, you can select the most appropriate resolution on the live view page.
- In the protocol drop-down list, you can select the combination of protocols and methods you wish to use based on your display needs and network properties.

Boîte de dialogue "Activer DHCP ou changer l'adresse IP"

Page de visualisation en direct

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Dimensions for the VISULEX K55-HD-Ex and K55-4K-Ex Cameras:
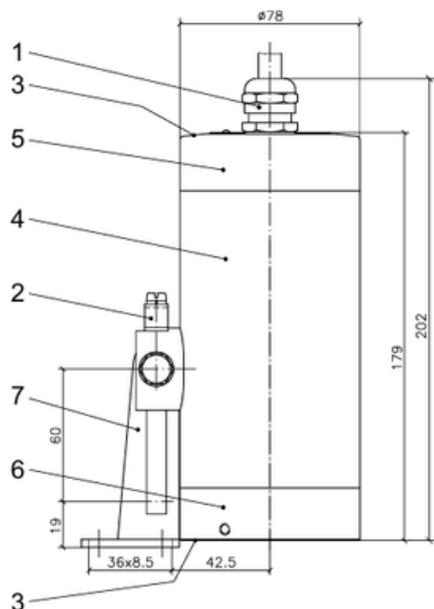
1. Ex-d Cable Gland Entry M20x1.5
2. External Grounding Terminal Block
3. M4 A2-70 Locking Screws
4. Camera Housing
5. End Cover
6. Indicator Light
7. Mounting (Hinge Bracket)

Mechanical Assembly:

Before installation, please also ensure compliance with the information sheet "Important Information on the Use of Sight Glass Fittings." The camera is mounted with the mounting parts on the cover flange of a round sight glass or flow sight glass, or it is fixed to the groove nut of the threaded sight glass fittings. Note: Direct sunlight must never come into contact with the camera lens, as this would render the camera unusable.

The K55-HD-Ex/K55-4K-Ex camera is suitable for nominal sizes with the appropriate mounting:

Mounting Using a Hinge Bracket:

The articulated bracket is used to mount the camera on the side of a circular sight glass cover or a flow sight glass or on the split nut for screws - Fittings for sight glasses DIN 11851. The articulated bracket is fixed to the required bolt circle using the supplied "M8" screw for a threaded blind hole to be drilled by the customer in advance. The hinge can also be welded.

Mounting Using a Flange Adapter:

The flange adapter is mounted on the split cover nut (DIN 11851) (welded or screwed connection). The camera is secured to the flange using the provided screws.

Maintenance:

After opening the camera, clean the surfaces of the cylindrical space between the end cover (5) and the camera lens (6). Before reassembling the camera, check that the components are not damaged and grease them again (e.g., using AEMA-SOL 6 B from A.E. Matthes).

- Regular cleaning of the glass plate is recommended for optimal camera visibility.
- Only use OEM spare parts.

Mounting Type	For DN	Hinge Bracket Support	Flange Adapter:
Circular Sight Glass DIN 28120 + DIN 28121	40	+	-
Circular sightglass DIN 28120 + DIN 28121	50	+	-
Screwed Sight Glass According to DIN 11851 Standard	65	-	+
	80	+	+
	100	+	+
	125	+	+

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