

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

Description:

The VISULEX K55-HD-Ex/K55-4K-Ex camera is a fixed-lens device. This standard camera features a lens that is affixed to the object being monitored during installation, whether in outdoor environments or for technical process control components such as agitators. It is essential to adhere to the temperature specifications outlined in the camera type's datasheet to ensure optimal performance. Power over Ethernet (PoE) is provided solely through the included network cable, which has a maximum length of 60 meters.

Design and scope of application:

Pressure-resistant stainless steel enclosure featuring a network camera integrated HD/4K technology, electronic components, and a stainless steel base.

Approved for Ex zones 1 and 2, in addition to zones 21 and 22.

General electrical and technical specifications:

Camera supply voltage: PoE (Power over Ethernet) Maximum power consumption: 5 W Camera protection class: IP65 in accordance with 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, both visibly and legibly, by a nameplate that displays 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 Caution: Do not open while powered on - allow four minutes after power-off before opening.

Production number/year of manufacture, Supply voltage, Power consumption, Protection class IP65, CE marking/Certification authority number

The warnings on the label must be observed.

Camera and/or electronics substitution:

The replacement of the camera assembly may only be performed by the manufacturer or at the manufacturer's facility (F.H. Papenmeier GmbH & Co. KG).



Connection cable:

Connection cable: ETHERLINE® Cat. 7 FLEX featuring a PUR outer sheath and UL approval; constructed with 4x2xAWG26/7.

Length: up to 60 m (197 ft) at 100 Mbps; up to 60 m (197 ft) at 10 Gbps.

The connecting cable should be installed in a manner that prevents static electricity. The network cable must have a minimum length of 1 meter (3.3 feet).

Connecting the K55-HD-Ex/K55-4K-Ex Camera:

Connect the camera using a standard RJ-45 cable for the connection network.

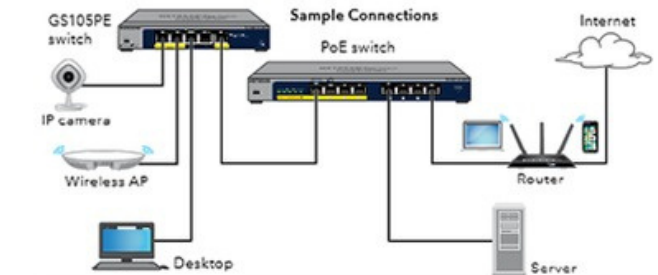
To connect to a PC, a crossover cable is typically necessary, whereas a direct cable (patch cable) is employed for connection to a switch.

To power the camera, a switch equipped with Power over Ethernet (PoE) functionality may be utilized.

Connect the camera directly to your PoE switch, as it can only be powered through PoE. If your switch lacks PoE functionality, a PoE injector is necessary. The IP address is assigned automatically through DHCP. If your network lacks a DHCP server, the default IP address is 192.168.1.10. To configure the camera, both devices (the camera and the PC) must reside within the same IP address range (for instance, camera 192.168.1.10, desktop computer 192.168.1.11).

For optimal viewing of the live image in high quality, Internet Explorer is recommended; however, Safari, Mozilla Firefox, Opera, and Google Chrome are also supported.

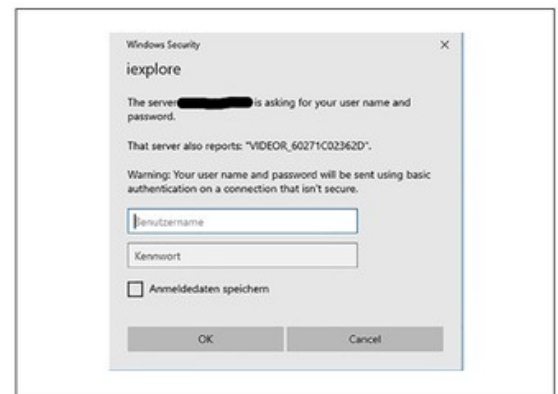
Note: To view streaming video in Microsoft Internet Explorer, please configure your browser to permit ActiveX controls.



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 :

Access through a web browser:

Launch a web browser.

Input the IP address or hostname of the network camera into the URL field (address line) of your browser.

The home page is displayed. Click on "Live View" (real-time monitoring), "Playback" (video playback), or "Setup" (configuration) to access the respective web page.

To enable camera access, a default administrator password must be established. This can be accomplished in the "Admin Password" dialog box that appears upon the initial opening of the network camera configuration. Please input your administrator name along with the password designated by the administrator.

Note: The default administrator username and password are "admin." Default login credentials:

Username: admin Password: admin If the password is forgotten, the network camera must be restored to its factory settings. Please refer to the "Factory Reset" section.



Language selection

To modify the national language, transition to System. → Language.

Activer DHCP ou modifier l'adresse IP

System → Network → Fundamental parameters

Default configurations

To restore the network camera to its factory settings, navigate to the Web Configuration page

→ System → Maintenance. Please note that resetting to factory settings will result in the loss of your individual configurations. (Default IP address: 192.168.1.10)

Live viewing page

The live viewing page can be presented in various modes. Users may choose the mode that best meets their needs. Please modify the mode based on your PC's capabilities and the specific monitoring objective.

Live viewing page

Utilize the video dropdown menu to showcase a configured or pre-programmed video stream on the live viewing page. Stream profiles are defined in the Configuration → Fundamental configuration → Visual and graphical.

In the resolution dropdown menu, you may select the most suitable resolution on the live viewing page.

In the protocol drop-down menu, you may select the desired combination of protocols and methods according to your display requirements and network characteristics.

The screenshot shows the 'System' configuration page with a sidebar menu. The 'Network - Basic' section is active, showing 'IP Address Configuration' with 'Obtain IP address via DHCP' selected. Other sections include 'IPv6 Address Configuration', 'DNS Configuration', 'Host Name Configuration', 'Services', and 'Link Speed Control'.

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



Page de visualisation en direct

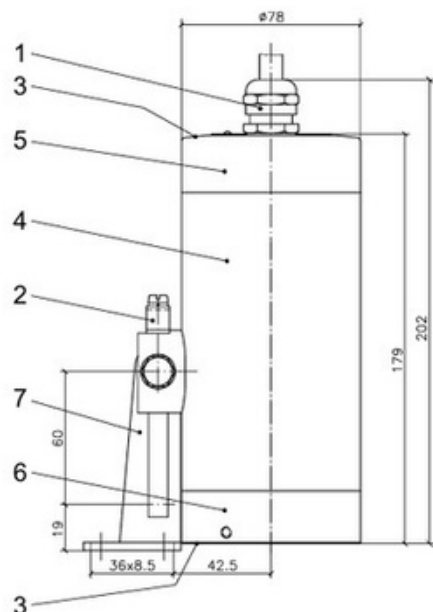


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Dimensions for the VISULEX K55-HD-Ex and K55-4K-Ex cameras:



- 1 Cable entry gland Ex-d M20x1.5
- 2 External protective conductor terminal block
- 3 M4 A2-70 locking screws
- 4 Camera body
- 5 End cover
- 6 Seeing
- 7. Repairing (hinged bracket)

Mounting with a hinged bracket:

The articulated bracket is utilized to affix the camera to the side of a lid, of a circular sight glass or a flow sight glass, or on the split nut for screws – Fittings for sight glasses DIN 11851. The hinged bracket is secured to the specified bolt circle using the provided "M8" screw for a blind threaded hole that must be pre-drilled by the customer. The hinge may also be welded.

Mounting with a flanged adapter collar:

The flanged adapter is affixed to the split cover nut (DIN 11851) (welded or screwed connection). (DIN 11851) (welded or screwed connection). The camera is affixed to the flange utilizing the supplied screws.

Mechanical assembly:

Before installation, please consult the information sheet titled "Important Information on the Use of Indicator Fittings." The camera is affixed using the mounting hardware to the cover flange of a round or flow indicator, or it can be attached to the groove nut of screw-on indicator fittings. Caution: Direct sunlight must never contact the camera lens, as this will render the camera inoperable.

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

Maintenance:

Upon opening the camera, the surfaces must be cleaned. The cylindrical space between the end cover (5) and the camera lens (6). Prior to reassembling the camera, ensure that the components are undamaged and reapply grease (for instance, AEMA-SOL 6 B from A.E. Matthes). Regularly clean the glass plate to maintain optimal camera visibility. Utilize only OEM replacement parts.

Mounting type	For DN	Hinged bracket	Flange adapter
Circular sight glass DIN 28120 + DIN 28121	40	+	-
Circular sight glass DIN 28120 + DIN 28121	50	+	-
Threaded sight glass conforming to DIN 11851	65	-	+
Threaded sight glass conforming to DIN 11851	80	+	+
Threaded sight glass conforming to DIN 11851	100	+	+
Threaded sight glass conforming to DIN 11851	125	+	+

