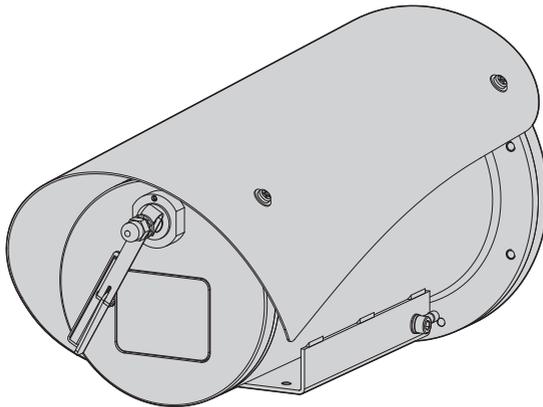




# MAXIMUS MVXHD

High-spec ex-proof HD camera in a compact design

MANUAL B



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## 1 About this manual

Read all the documentation supplied carefully before installing and using this product. Keep the manual in a convenient place for future reference.

This document has been compiled and published using product descriptions and specifications available at the time of publication. The contents of this document and the specifications of the products discussed herein are subject to change without notice. Pelco Inc. reserves the right to make any such changes without notice. Neither Pelco Inc. nor any of its affiliated companies: (1) guarantees the completeness or accuracy of the information contained in this document; or (2) is responsible for your use of, or reliance on, the information. Pelco Inc. shall not be responsible for any losses or damages (including consequential damages) caused by reliance on the information presented herein.

For greater certainty, the use of "manufacturer" in this manual means "VIDEOTEC s.r.l.".

### 1.1 Typographical conventions



**DANGER!**  
**High level hazard.**  
**Risk of electric shock. Disconnect the power supply before proceeding with any operation, unless indicated otherwise.**



**DANGER!**  
**Explosion hazard.**  
**Read carefully to avoid danger of explosion.**



**CAUTION!**  
**Medium level hazard.**  
**This operation is very important for the system to function properly. Please read the procedure described very carefully and carry it out as instructed.**



**INFO**  
**Description of system specifications.**  
**We recommend reading this part carefully in order to understand the subsequent stages.**

## 2 Notes on copyright and information on trademarks

The mentioned names of products or companies are trademarks or registered trademarks.

Pelco, the Pelco logo, and other trademarks associated with Pelco products referred to in this publication are trademarks of Pelco, Inc. or its affiliates.

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ONVIF® is a trademark of Onvif, Inc.

## 3 Product description and type designation

### 3.1 Product marking label

See the label attached to the product.

## 4 Installation

 **CAUTION!** Device installation and maintaining must be performed by specialist technical staff only.

 **The external multipolar cable shield (armour) must be earthed.**

 **All disconnected wires must be electrically isolated.**

 **During installation of the version with multipolar cable, ensure there is 200mm of open space at the back of the housing to guarantee correct curvature of the cable.**

### 4.1 Range of use

For indoors and outdoors installation.

Operating temperature:

- Continuous working: from -50°C (-58°F) up to +65°C (149°F).
- Cold start: up to -40°C (-40°F).

Relative humidity: from 10% up to 95% (no condensation).

### 4.2 Connecting the power supply

 **Electrical connections must be performed with the power supply disconnected and the circuit-breaker open.**

 **When commencing installation make sure that the specifications for the power supply for the installation correspond with those required by the device.**

 **Check that the power supply is adequately dimensioned.**

The device can be provided with different power supply voltages. The power supply voltage is indicated on the product identification label (3.1 Product marking label, page 3).

Perform the connections following the instructions reported in the table .

CONNECTING THE POWER SUPPLY		
Power supply 24Vac/ 24Vdc/ 12Vdc		
Colour/Number	Description	
	24Vac	24Vdc/12Vdc
Black/1	~	V+
Black/2	~	V-
Yellow-Green	⊕	⊕

Tab. 1

### 4.3 Ethernet cable connection

**⚠ The Ethernet cable shield must always be earthed via the connector. Always use a shielded RJ45 connector.**

Use of Ethernet cables with the following characteristics is highly recommended:

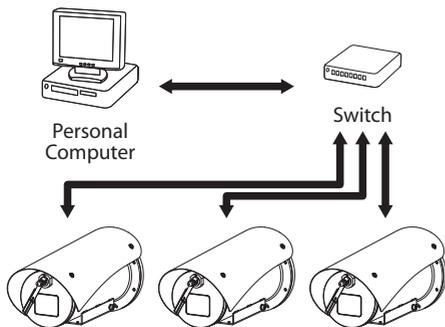
- STP (shielded)
- Category 5E
- RJ45 connector (crimped in compliance with standard TIA/EIA-568-B)

The product can be directly connected to an Ethernet switch.

ETHERNET CABLE CONNECTION	
Pin number	Core colour
1	Orange-White
2	Orange
3	Green-White
4	Blue
5	Blue-White
6	Green
7	Brown-White
8	Brown

**Tab. 2**

The example below shows a typical installation.



**Fig. 1**

### 4.4 I/O cable connection

**⚠ CAUTION! TNV-1 installation type. The installation is type TNV-1, do not connect it to SELV circuits.**

**⚠ The shielding of the I/O cable must be grounded.**

I/O CABLE CONNECTION	
Colour	Function
White	RS-485 A (+)
Yellow	RS-485 B (-)
Pink	Relay 1, Terminal A
Blue	Relay 1, Terminal B
Brown	Alarm/Digital input
Green	GND/Common alarm
Grey	Reset

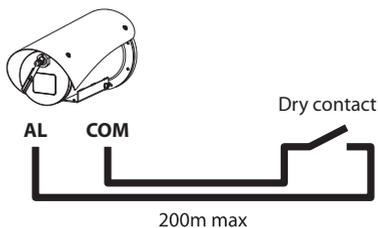
**Tab. 3**

#### 4.4.1 Alarm and relay connections

The unit is equipped with the alarms and relays indicated in the table (Tab. 3, page 5).

##### 4.4.1.1 Connecting an alarm with dry contact

In case of free contact alarm make the connection as shown in the figure.



**Fig. 2** AL: Alarm. COM: Common alarm.

Clean contact of the alarm can be set NO (normally open) or NC (normally closed) using the web interface.

#### 4.4.1.2 Relay connection



Each relay is usable with the specifications described below.

- Working voltage: up to 30Vac or 60Vdc.
- Current: 1A max.

Use suitable cable sections with the following characteristics: from 0.2mm<sup>2</sup> (30AWG) up to 1mm<sup>2</sup> (16AWG).

Due to the absence of polarity, both terminals of the same relay can be connected either to alternating or direct current voltages.

#### 4.5 Washing system connection



For further details on configuration and use, refer to the relative manual.

#### 5 Switching on



Do not turn on the unit when the ambient temperature is lower than indicated: -40°C (-40°F).



The full functionality of the product is guaranteed from the following ambient temperature: -40°C (-40°F).



The automatic pre-heating procedure (De-Ice) activates for 2 hours if on device switch on an ambient temperature is detected under -10°C (14°F). The procedure is necessary to guarantee correct operation of the devices even at low temperatures.

#### 5.1 Before powering the product in an explosive atmosphere



Make sure that the unit and other components of the installation are closed so that it is impossible to come into contact with live parts.



Make sure that the device has been connected to an earth link as described.



Ensure the rear cover plate is correctly closed.



Ensure the product is correctly closed.



Ensure that the sealing of cable entry systems (if any) has been performed properly and the time of glue hardening has been observed.



Make sure that all parts are fastened down firmly and safely.

#### 5.2 First start-up



Ensure the unit and the other components of the system are appropriately closed to prevent contact with live parts.



Make sure that all parts are fastened down firmly and safely.

The unit is switched on by connecting the power supply.

To switch off the unit disconnect the power.

## 6 Configuration

### 6.1 Default IP address

**i** The unit is configured to obtain an IP address from a DHCP server.

The IP address acquired via DHCP is visible in the DHCP server log file.

If the DHCP server is not available, the unit automatically configures itself with a self-generated IP address in the 169.254.x.x/16 subnet. Configuring the IP address of the PC as belonging to the same subnet (example: IP address: 169.254.1.1, subnet mask: 255.255.0.0).

Use an ONVIF compliant VMS or the Motorola Solutions Camera Configuration Tool to find the IP address of the device.

### 6.2 Web interface

**i** Browsers supported (the latest version): Microsoft Edge, Google Chrome, Mozilla Firefox.

#### 6.2.1 First access to the web pages

The first operation in configuring the device consists in connecting to the web interface.

To access the web interface of the product, simply use a browser to connect to `http://ip_address`.

On first access, the Home page will be displayed.

Additional information about setting up and using the device is available in:

[www.pelco.com/exsite-enhanced-2](http://www.pelco.com/exsite-enhanced-2)

## 7 Accessories

**i** For further details on configuration and use, refer to the manual of the relevant accessory or support.

### 7.1 Inserting an SD Card

**!** For instruction about opening and closing the camera, please refer to Manual A.

To allow video archiving in the device, insert an industrial grade microSD card in the slot.

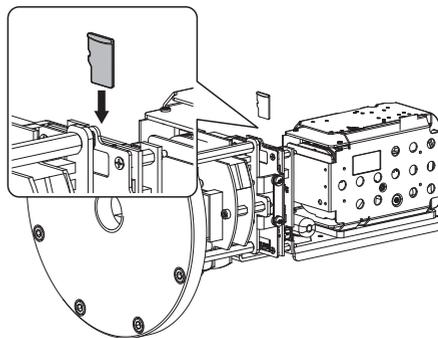


Fig. 3

## 8 Maintenance



**The pre-installed camera can only be replaced with one of the same brand and model.**



**Read the product Manual A before performing any operation.**

Please provide the device serial number when requesting any replacement parts.

## 8.1 Factory Default

It is possible to reset to the factory default settings. Execute the procedure below:

- Power the unit.
- Wait for 3 minutes.
- Connect the I/O cable grey and green wires (Tab. 3, page 5).
- Wait for 3 minutes.
- Switch off the unit.
- Disconnect the previously connected green and grey wires.
- Power the unit.

## 9 Information on disposal and recycling

The European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) mandates that these devices should not be disposed of in the normal flow of municipal solid waste, but they should be collected separately in order to optimize the recovery stream and recycling of the materials that they contain and to reduce the impact on human health and the environment due to the presence of potentially hazardous substances.



**The symbol of the crossed out bin is marked on all products to remember this.**

The waste may be delivered to appropriate collection centers, or may be delivered free of charge to the distributor where you purchased the equipment at the time of purchase of a new equivalent or without obligation to a new purchase for equipment with size smaller than 25cm (9.8in).

For more information on proper disposal of these devices, you can contact the responsible public service.

## 10 Troubleshooting



**Contact an authorized support centre if the problems listed below persist or you have any other issues that are not described here.**



**Read the product Manual A before performing any operation.**

<b>PROBLEM</b>	<b>Video streaming is not visible.</b>
CAUSE	Incorrect IP address settings.
SOLUTION	Check the device IP address and the configuration of the computer network card.
CAUSE	Automatic preheating procedure (De-Ice) in progress.
SOLUTION	Wait until the end of the pre-heating procedure. If the ambient temperature is too low the unit will remain blocked.
<b>PROBLEM</b>	<b>The wash system is blocked and does not respond to commands.</b>
CAUSE	The wash system is not enabled.
SOLUTION	Check the configuration of the settings.
<b>PROBLEM</b>	<b>The wash system settings are incorrect.</b>
CAUSE	Wrong settings in the configuration.
SOLUTION	Check the configuration of the settings.

# 11 Technical data

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**For the technical data of the housing, consult Manual A of the product.**

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## 11.1 Cameras

Resolution: Full HD 1080p (1920x1080pixel)

Image Sensor: 1/2.8" Progressive Scan CMOS

Focal length: from 4.3mm (wide) up to 129mm (tele)

Zoom: 30x

Max Aperture: F1.6

Horizontal Angle of View Based on Aspect Ratio:  
(16:9) 2.3°-66°

Electronic Shutter Control: Automatic, Manual

White balance: Automatic, Manual

Wide Dynamic Range: 120dB

Exposure Control: Automatic, Manual, Priority (Iris  
Priority, Shutter Priority), Brightness, Custom

De-fog: On/Off

Privacy Zones

Day/Night Control: Automatic, Manual

Flicker Control: 60Hz, 50Hz

Backlight Compensation: On/Off



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