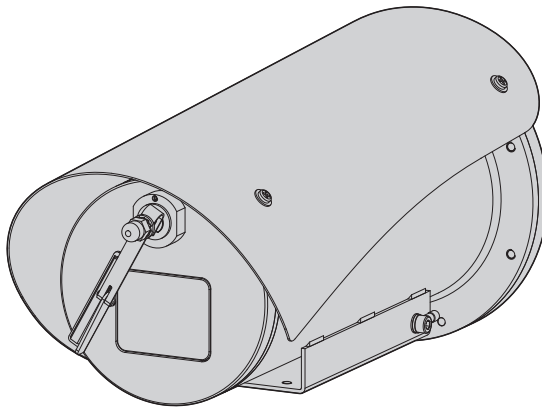




MAXIMUS MVXHD

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.

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For greater certainty, the use of "manufacturer" in this manual means "Videotec S.p.A."

1.1 Typographical conventions

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

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ONVIF® is a trademark of Onvif, Inc.

3 Identification

3.1 Product marking

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.



The product comes with a multipolar cable or a cable tail for coupling purposes. When installing the device with the multipolar cable, keep at least 250mm free space from the bottom of the housing to allow for the minimum curvature radius of the multipolar cable.

4.1 Range of use

For indoors and outdoors installation.

Installation temperature: from -40°C (-40°F) up to +60°C (140°F).

Operating temperature:

- -40 °C to 55 °C (-40 °F to 131 °F), in enclosed space
- -40 °C to 60 °C (-40 °F to 140 °F), with ambient convection

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

4.2 Connection of the power supply line



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, page 5).

The multicore cable has the power and earth cables inside.

Perform the connections following the instructions reported in the table .

CONNECTION OF THE POWER SUPPLY LINE	
Power supply 24Vac/ 24Vdc/ 12Vdc	
Colour	Terminals
Black 1 (+)	L (Phase)
Black 2 (-)	N (Neutral)
Yellow/Green	⊕

Tab. 1

4.3 Connection of the Ethernet cable

⚠ 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 (or higher)

The product can be directly connected to an Ethernet switch.

Carry out the connections as described in the table (according to the standard specifications: TIA/EIA-568-B).

CONNECTION OF THE ETHERNET CABLE	
Pin number	Cable 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.

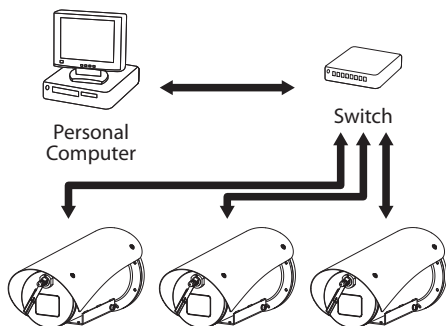


Fig. 1

4.4 Signal cable connection

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

SIGNAL CABLE CONNECTION	
Colour	Function
White	RS-485 A (+)
Yellow	RS-485 B (-)
Pink	Relay 1, Terminal A
Violet (blue, cable tail version)	Relay 1, Terminal B
Red (brown, cable tail version)	Alarm/Digital input
Green	GND/Common alarm
Grey	Reset

Tab. 3

4.4.1 Alarm and relay connections

⚠ The external relay and alarm cable shield must be earthed.

The unit is equipped with the alarms and relays indicated in the table (Tab. 3, page 7).

4.4.1.1 Connecting an alarm with dry contact

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

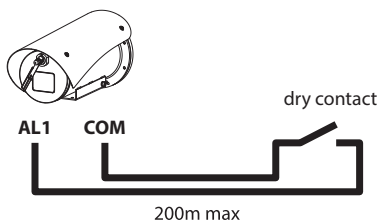


Fig. 2 AL1: Alarm 1. COM: Common alarms.

The dry contact alarm can be NO (normally open) or NC (normally closed).

4.4.1.2 Relays connection



The relays are usable with the specifications described below. Working voltage: up to 15Vac or 30Vdc. Current: 1A max. Use suitable cable sections with the following characteristics: from 0.25mm² (23AWG) up to 1.5mm² (15AWG).

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



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.

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

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

The unit is switched on by connecting the power supply.

To switch off the unit disconnect the power.

5.1 Before powering the product in an explosive atmosphere



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



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.

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.

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

6.3 Inserting an SD Card

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

For onboard video storage capabilities, please insert an industrial grade microSD card into the slot as show (Fig. 3, page 9).

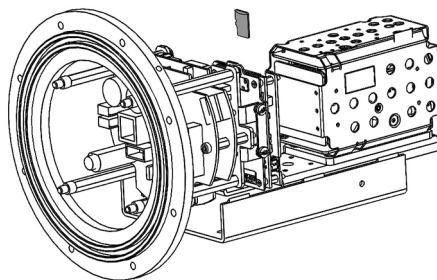


Fig. 3

7 Maintenance



Read the product Manual A before performing any operation.

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

7.1 Factory Default

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

- Power the unit. Wait for 3 minutes.
- Connect the signal cable grey and green wires (Tab. 3, page 7).
- Wait for 3 minutes.
- Switch off the unit.
- Disconnect the previously connected green and grey wires.
- Power the unit.

8 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.

9 Troubleshooting

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

i Read the product Manual A before performing any operation.

PROBLEM **Video streaming is not visible.**

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.

PROBLEM **The wash system is blocked and does not respond to commands.**

CAUSE The wash system is not enabled.

SOLUTION Check the configuration of the settings.

PROBLEM **The wash system settings are incorrect.**

CAUSE Wrong settings in the configuration.

SOLUTION Check the configuration of the settings.

10 Technical data

10.1 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: Yes

Day/Night Control: Automatic, Manual

Flicker Control: 60Hz, 50Hz

Backlight Compensation: On/Off

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