



Ulisse Enhanced PTZ 2 Series Installation manual

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Contents

- 1 About this manual..... 5**
 - 1.1 Typographical conventions 5
- 2 Notes on copyright and information on trademarks..... 5**
- 3 Safety rules 5**
- 4 Legal notices 7**
- 5 Identification 8**
 - 5.1 Product overview 8
 - 5.2 Product marking label..... 8
 - 5.2.1 Checking the markings..... 8
- 6 Preparing the product for use..... 9**
 - 6.1 Safety precautions before use..... 9
 - 6.2 Unpacking 9
 - 6.3 Contents 9
 - 6.4 Safely disposing of packaging material..... 9
 - 6.5 Preparatory work before installation 10
 - 6.5.1 Mounting the bracket..... 10
 - 6.5.2 Cable management 10
- 7 Assembly 10**
 - 7.1 Sunshield mounting 10
- 8 Installation 11**
 - 8.1 Fixing the base to the support 11
 - 8.2 Connecting the Pan & Tilt to the system..... 12
 - 8.2.1 Connector board description..... 12
 - 8.3 Installing cable ferrites..... 13
 - 8.3.2 Connecting the power supply 13
 - 8.3.3 I/O cable connection 14
 - 8.3.3.1 Ethernet cable connection..... 14
 - 8.3.3.2 Connection of the alarm inputs, of the twilight switch and of the relays 14
 - 8.3.4 Description of the Factory Default procedure..... 15
 - 8.4 Closing the connector housing cover 15
 - 8.5 Fixing the upper body 15
 - 8.6 LED illuminators installation (optional features) 16
 - 8.6.1 Fitting the bracket 16
 - 8.6.2 Fitting the illuminator on the bracket..... 16
 - 8.6.3 Housing opening 17
 - 8.7 Housing board description 17
 - 8.8 Connection of the LED illuminators 18
 - 8.9 LED illuminator activation and adjustment instructions 18
 - 8.9.1 LED illuminator switching on threshold adjustment..... 19
 - 8.9.2 LED illuminator power adjustment..... 19
 - 8.9.3 Activation of the LED illuminator via an external dusk switch 20
 - 8.9.4 Activation of the LED illuminators via the camera 20

8.9.5 Inserting an SD Card 20

8.10 Housing closure 20

9 Switching on 21

10 Configuration.....21

10.1 Default IP address 21

10.2 Web interface 21

10.2.1 First access to the web pages 21

10.3 Camera configuration 21

11 Instructions for normal operation 21

11.1 Instructions for wiper operation.....21

12 Accessories 22

12.1 Washer.....22

12.2 Mounting bracket for LED illuminators 22

12.3 LED illuminators 22

12.4 Wall mount bracket.....23

12.5 Parapet bracket 23

12.6 Weatherproof junction box 23

13 Maintenance 23

13.1 Fuses replacement.....23

14 Cleaning 24

14.1 Cleaning the window and plastic parts 24

15 Information on disposal and recycling 24

16 Troubleshooting.....24

17 Technical drawings.....25

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.

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!

Mechanical hazard.

Risk of crushing or shearing.



DANGER!

Hot surface.

Avoid contact. Surfaces are hot and may cause personal injury if touched.



DANGER!

Emission of visible light or infrared.

Can be harmful for eyes. Pay attention to the provided indications.



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.

3 Safety rules



CAUTION! The electrical system to which the unit is connected must be equipped with a 10A max automatic bipolar circuit breaker. This circuit breaker must be of the Listed type. The minimum distance between the circuit breaker contacts must be 3mm (0.1in). The circuit breaker must be provided with protection against the fault current towards the ground (differential) and the overcurrent (magnetothermal). The circuit breaker must be Type D to avoid interruptions at startup.



Before starting any operation, make sure the power supply is disconnected.



CAUTION! Hazardous moving parts. Keep fingers and other body parts away.



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



CAUTION! For continued protection against risk of fire, replace only with same type and rating of fuse. Fuses must be replaced only by service personnel.



During normal operation the surface of the illuminator can reach high temperatures. Do not allow direct contact and position the appliance where it is inaccessible to unauthorised persons. Before touching, switch off the illuminator and allow to cool for a minimum period of 10 minutes.



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

2 Notes on copyright and information on trademarks

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

ONVIF® is a trademark of Onvif, Inc.



CAUTION! In order to reduce the risk of fire, only use UL Listed or CSA certified cables with sections greater than or equal to 0.14mm² (26AWG).



CAUTION! Disconnect TNV circuit connector before opening product.

- The manufacturer declines all responsibility for any damage caused by an improper use of the appliances mentioned in this manual. Furthermore, the manufacturer reserves the right to modify its contents without any prior notice. The documentation contained in this manual has been collected and verified with great care. The manufacturer, however, cannot take any liability for its use. The same thing can be said for any person or company involved in the creation and production of this manual.
- Be careful not to use cables that seem worn or old.
- Never, under any circumstances, make any changes or connections that are not shown in this handbook. Improper use of the appliance can cause serious hazards, risking the safety of personnel and of the installation.
- Use only original spare parts. Non-original spare parts could cause fire, electrical discharge or other hazards.
- Before proceeding with installation, check the supplied material to make sure it corresponds to the order specification by examining the identification labels (5.2 Product marking label, page 8).
- This device was designed to be permanently secured and connected on a building or on a suitable structure. The device must be permanently secured and connected before any operation.
- The product is designed to house only cameras that are properly certified.
- A power disconnect device must be included in the electrical installation, and it must be very quickly recognizable and operated if needed.
- The separate protective earthing terminal provided on this product shall be permanently connected to earth.
- Installation category (also called Overvoltage Category) specifies the level of mains voltage surges that the equipment will be subjected to. The category depends upon the location of the equipment, and on any surge voltage protection provided. Equipment in an industrial environment, directly connected to major feeders/short branch circuits, is subjected to Installation Category III. If this is the case, a reduction to Installation Category II is required. This can be achieved by use of an insulating transformer with an earthed screen between primary and secondary windings, or by fitting UL listed Surge Protective Devices (SPDs) from live to neutral and from neutral to earth. Listed SPDs shall be designed for repeated limiting of transient voltage surges and the following rated operation conditions: Type 2 (SPDs permanently connected to the power network and intended for installation on the load side of the service equipment); Nominal Discharge Current (In) 20kA min. For example: FERRAZ SHAWMUT, STT2240SPG-CN, STT2BL240SPG-CN rated 120Vac/240Vac, (In=20kA). Maximum distance between installation and reduction is 5m.

- The device must be properly connected to the earth circuit.
- The equipment is intended for installation in a Restricted Access Area by specialist technical staff.
- Connect the device to a power source corresponding to the indications given on the marking label. Before proceeding with installation make sure that the power line is properly isolated. The supply voltage should never exceed the limit ($\pm 10\%$).
- This equipment is not suitable for use in locations where children are likely to be present.
- This is a Class A product. In a domestic environment this product may cause radio interference. In this case the user may be required to take adequate measures.
- To comply with the main supply voltage dips and short interruption requirements, use a suitable Uninterruptible Power Supply (UPS) to power the unit.
- Installations according to UL/CSA standards. To connect the power supply line use the appropriate junction-box (UPTJBUL). For further information, refer to the product use and installation manual.

4 Legal notices

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5 Identification

5.1 Product overview

The main parts of the product are illustrated below:

1. Sunshield.
2. Body.
3. Base.

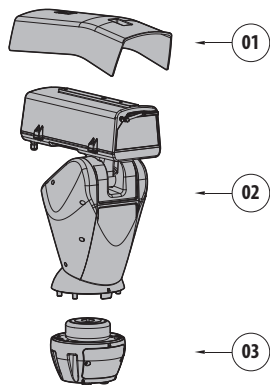


Fig. 1

5.2 Product marking label



The product has a label compliant with CE marking.

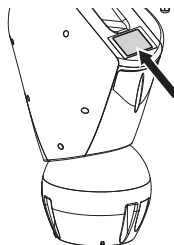


Fig. 2

The label shows:

- Model identification code (Extended 3/9 bar code).
- Supply voltage (Volt).
- Frequency (Hertz).
- Current consumption (Ampere).
- Protection degree (IP).
- Serial number.

5.2.1 Checking the markings

Before proceeding further with installation, make sure the material supplied corresponds to the order specification by examining the marking labels.

Never, under any circumstances, make any changes or connections that are not shown in this handbook. Improper use of the appliance can cause serious hazards, risking the safety of personnel and of the installation.

6 Preparing the product for use



Any change that is not expressly approved by the manufacturer will invalidate the warranty.



The product must not be dismantled or tampered with. The only exceptions are those concerning the assembly and maintenance operations stipulated in this manual.

6.1 Safety precautions before use



The appliance includes moving parts. Make sure that the unit is positioned where it is inaccessible under normal operating conditions. Attach the warning label supplied with the appliance, placing it near the unit so that it can be seen easily.



Fig. 3

6.2 Unpacking

When the product is delivered, make sure that the package is intact and that there are no signs that it has been dropped or scratched.

If there are obvious signs of damage, contact the supplier immediately.

When returning a faulty product we recommend using the original packaging for shipping.

Keep the packaging in case you need to send the product for repairs.

6.3 Contents

Check the contents to make sure they correspond with the list of materials as below:

- Positioning unit
- Power supply base
- Accessories package:
 - Allen wrench
 - Power connector
 - I/O connector
 - Spacers
 - Label
 - Cable ties
 - Ferrites for cables
 - Silicone sheath
 - Reduction gaskets for cable glands
 - Instruction manual
 - Bolts and screws
- Sunshield

Additional supplies needed:

- Thread locking compound (Loctite 243®)

6.4 Safely disposing of packaging material

The packaging material can all be recycled. The installer technician will be responsible for separating the material for disposal, and in any case for compliance with the legislation in force where the device is to be used.

6.5 Preparatory work before installation

6.5.1 Mounting the bracket

Different types of supports are available (12 Accessories, page 22). Choose a suitable bracket for the installation and follow all the instructions in the suggested chapter.



Take special care when attaching and fastening down the apparatus. The fastening system must be capable of supporting at least 4 times the weight of the entire equipment (product, accessories, supports and adapters).



The device must be assembled vertically. Any other position could impair the performance of the appliance.



Do not attach the device upside down.

6.5.2 Cable management



The connection cables should not be accessible from the outside.



You must use cables suited to the type of installation you are using.

Insert the cables into the support so that they protrude by about 50cm.

For further information refer to the relative chapter (8.2 Connecting the Pan & Tilt to the system, page 12).

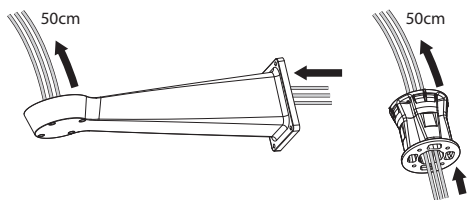


Fig. 4

7 Assembly

7.1 Sunshield mounting

Fix the sunshield to the housing using the screws and washers screwed into the upper body of the housing.

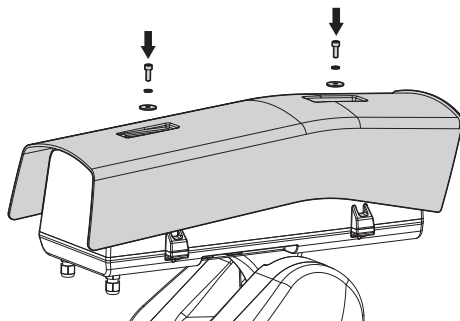


Fig. 5

It is recommended to fix the cover as far forward as possible to protect against sun reflection and water droplets.



Pay attention to the fixing. Tightening torque: 2Nm.

8 Installation

⚠ Never, under any circumstances, make any changes or connections that are not shown in this handbook. Failure to follow the connection instructions that are given in the handbook may create serious safety hazards for people and for the installation.

⚠ Do not change the wiring in the product as it is supplied to you. Failure to follow this instruction may create serious safety hazards for people and for the installation, and will also invalidate the warranty.

8.1 Fixing the base to the support

Remove the base from the unit.

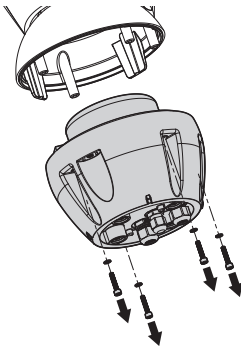


Fig. 6

Open the hatch by undoing the screws as shown in figure.

Insert the cables into the cable glands holding the base at about 20cm from the support.

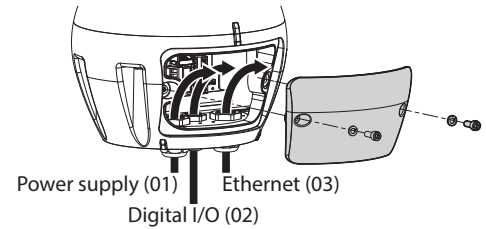


Fig. 7

Use power cables (01) and Ethernet network cables (03) with a diameter of between 5mm and 12mm.

⚠ Pay attention to the fixing. Tightening torque: 2.7Nm.

Use a digital I/O cable (02) with a diameter of between 5mm (0.2in) and 10mm (0.4in) (for diameters between 3mm (0.12in) and 7mm (0.27in) use the special seal).

⚠ Pay attention to the fixing. Tightening torque: 2Nm.

Once you have positioned the gasket (01), fix the base (02) onto the bracket (03) with screws (04), serrated washers (05) and screw rings (06).

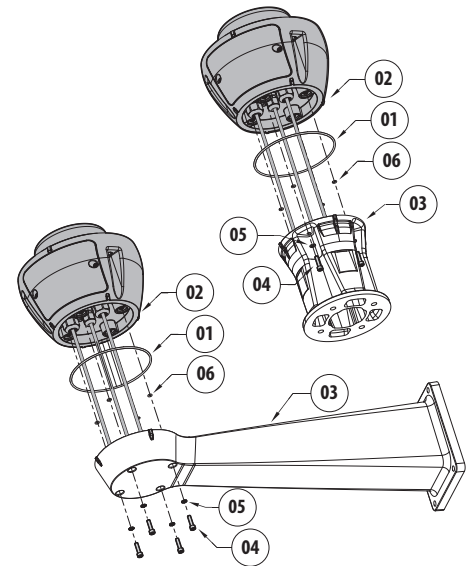


Fig. 8

-  Use the screws and washers provided with the support.
-  Apply thread-locker into the holes for screws (Loctite 243®).
-  Pay attention to the fixing. Tightening torque: 6Nm.

8.2 Connecting the Pan & Tilt to the system

8.2.1 Connector board description

BOARD DESCRIPTION	
Components	Function
J1	Power supply line
J2	Ethernet
J3	Digital I/O
DIP1	Reset to Factory Default Settings
F1	Power line fuse
F2	Pan & Tilt electronic power supply fuse
F3	Illuminator power supply fuse
LD1, LD3	Ethernet line status (link and activity)
LD2	Firmware status
LD4, LD5	Status of the communication line with the camera (link and activity)
LD6	Power status

Tab. 1

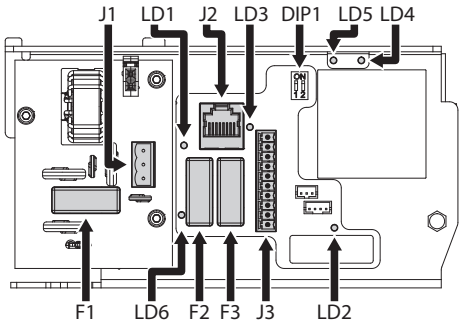


Fig. 9

8.3 Installing cable ferrites

Install the supplied ferrites on each cable as shown in the figure.

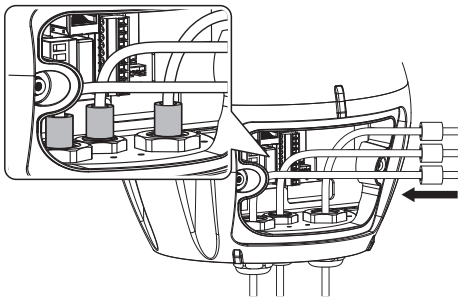


Fig. 10

8.3.2 Connecting the power supply

Depending on the version, the device can be provided with different power supply voltages. The power supply voltage is indicated on the product identification label (5.2 Product marking label, page 8).



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 socket and cable are adequately dimensioned.



Earth cable should be about 10mm longer than the other two, so that it will not be disconnected accidentally if pulled.

Cut the cables to the correct length and make the connections. Connect the power supply to the connector.

The power supply cable must be covered by the silicone sheath (01) supplied. The silicone sheath must be fastened with the corresponding cable tie (02).

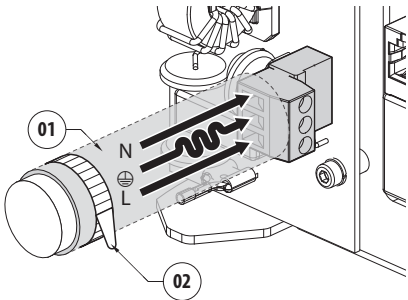


Fig. 11

Carry out the connections as described in the table.

CONNECTING THE POWER SUPPLY	
Colour	Terminal
Power supply 230Vac	
Blue	N (Neutral)
Yellow/Green	⊕
Brown	L (Phase)
Power supply 120Vac	
Blue	N (Neutral)
Yellow/Green	⊕
Brown	L (Phase)
Power supply 24Vac	
Defined by the installer	N (Neutral)
Yellow/Green	⊕
Defined by the installer	L (Phase)

Tab. 2

The removable connector is supplied in the kit.

8.3.3 I/O cable connection

⚠ All signal cables must be grouped together by means of a cable tie.

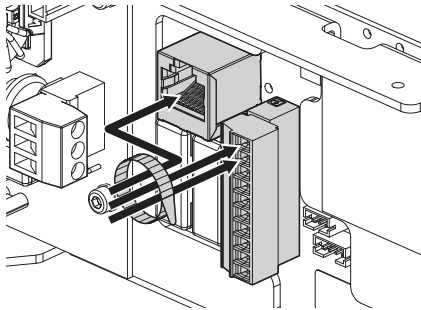


Fig. 12

8.3.3.1 Ethernet cable connection

Use Ethernet cables with the following characteristics:

- Category 5E (or higher)
- STP (shielded)

Connect the ethernet cable to the relative connector (J2, 8.2.1 Connector board description, page 12).

8.3.3.2 Connection of the alarm inputs, of the twilight switch and of the relays

The maximum cable length for each alarm is 200m.

Use shielded cables.

Connect the digital I/O cable to the relative connector (J3, 8.2.1 Connector board description, page 12).

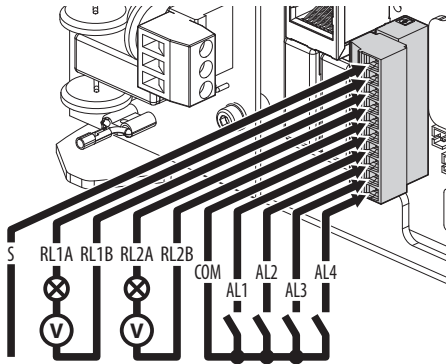


Fig. 13

CONNECTION OF THE ALARM INPUTS, OF THE TWILIGHT SWITCH AND OF THE RELAYS	
Terminals	Description
S	Shielded cable sleeve
RL1A, RL1B, RL2A, RL2B	Dry output contacts, can be activated by alarm or by user control
AL1, AL2, AL3, AL4 e COM	Self-powered alarm inputs referred to the shared terminal

Tab. 3

The device can be equipped with an external dusk switch. Based on the detected light, the dusk switch allows the automatic activation of Night mode. Connect the dusk switch to the input of a specified alarm: AL4. For the configuration of the Night mode, please refer to the relevant chapter (11 Instructions for normal operation, page 21).

The device can be equipped with a washing system as an accessory(12.1 Washer, page 22). Connect the pump activation signal cable to the indicated relay: RL2A, RL2B.

8.3.4 Description of the Factory Default procedure

If the access password is no longer available, follow the procedure to reset to default factory settings.

- Switch off the unit.
- Open the connector housing cover (Fig. 7, page 11).
- Locate the DIP-switch 1. Turn switch 2 ON. (8.2.1 Connector board description, page 12).
- Close the connector housing cover (8.4 Closing the connector housing cover, page 15).
- Power the unit.
- Wait for 3 minutes.
- Switch off the unit.
- Open the connector housing cover.
- Turn switch 2 OFF.
- Close the connector housing cover.
- Power the unit.

i For correct product operation, always leave the switch 1 in the default position (OFF).

8.4 Closing the connector housing cover

Replace the connector cover being careful not to crush the cables when closing.

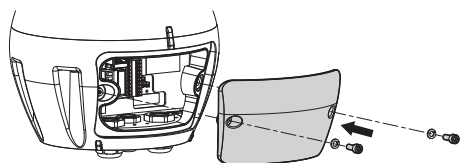


Fig. 14

! Pay attention to the fixing. Tightening torque: 6Nm.

8.5 Fixing the upper body

Place the unit body on the base aligning the reference marks. Insert the unit body anti-tipping columns in the holes on the base. Be especially careful not to damage internal components during installation.

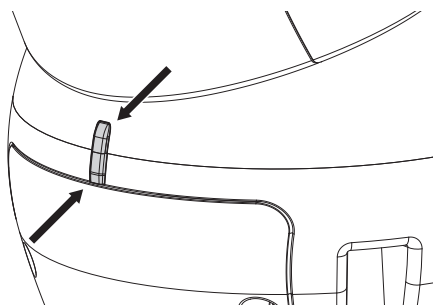


Fig. 15

Fasten the upper body to the base using the fixing screws. Check that a base gasket is present and in good condition.

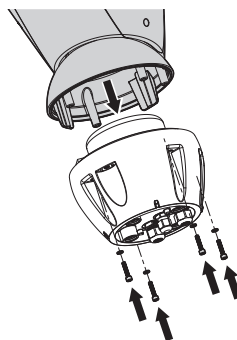


Fig. 16

! Pay attention to the fixing. Tightening torque: 6Nm.

8.6 LED illuminators installation (optional features)



To work properly both illuminators must be installed together.



From Pan & Tilt, it is only possible to install UPTIRN illuminators.

8.6.1 Fitting the bracket

Position the bracket (01) on the bottom of the housing as shown in figure. Install the screws and the washers (02) in the holes (03) and tighten them.

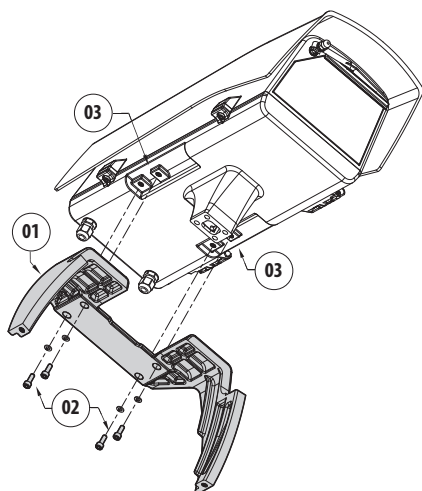


Fig. 17



Pay attention to the fixing. Tightening torque: 6Nm.

8.6.2 Fitting the illuminator on the bracket

Place the fixings of the illuminator (01) on those of the bracket (02).

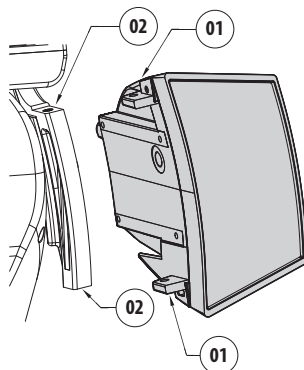


Fig. 18

Align the illuminators to the camera, to disperse as little light as possible.

Screw in the screws and washers supplied with the illuminator.

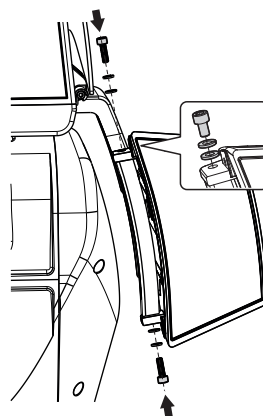


Fig. 19



Pay attention to the fixing. Tightening torque: 6Nm.

8.6.3 Housing opening

Loosen the 2 screws on the side, turn the cover and the upper half of the body about the opening hinge axis.

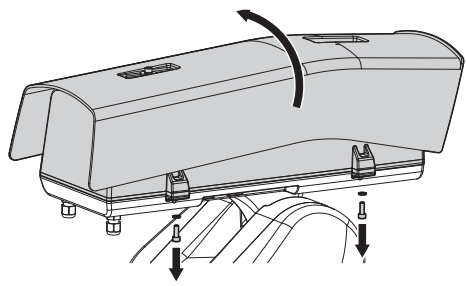


Fig. 20

⚠ DANGER!
Mechanical hazard.
Risk of crushing or shearing.

8.7 Housing board description

BOARD DESCRIPTION	
Component	Function
J4	Not used
J5	RS-485 (lens)
J6	Reading the lens potentiometers
J7	Lens motor power supply, One Push AF
J8	Lens motor power supply, One Push AF, reading the lens potentiometers
J9	Visible cut filter
J10	Power supply and control (integrated camera)
J11	Power supply and control (Spot illuminator)
J12	Board diagnostics
J13	RS-485 (camera)

BOARD DESCRIPTION	
Component	Function
J14	Camera power supply, camera input alarm, camera output alarm
J15	Power supply and control (Primary illuminator)
J16	Heated glass
J17	Wiper
J18	Ethernet
DIP2	Lens voltage
DIP3	Housing configuration
LD7	Internal power supply status (5V)
LD8	Internal power supply status (3,3V)
LD9	Firmware status
LD10	Camera power status
LD11	Internal power supply status (12V)
LD12	PoE power supply status

Tab. 4

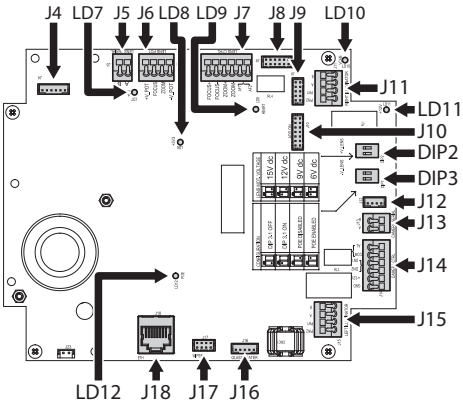


Fig. 21

8.8 Connection of the LED illuminators

Open the housing as described in the relative chapter (8.6.3 Housing opening, page 17).
Insert the power supply cables through the cable glands by at least 10 cm. Tighten the cable glands.

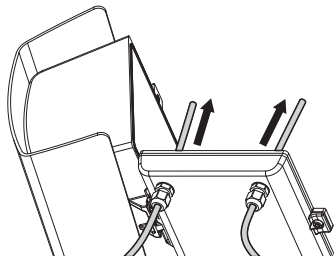


Fig. 22



To ensure the safety and the correct operation of the unit do not leave a surplus of the cable externally.



Pay attention to the fixing. Tightening torque: 2Nm.

There are two connectors on the housing card used to control the illuminators (J11, J15, 8.7 Housing board description, page 17).

Connect the cables as described in the table.

CONNECTION OF THE LED ILLUMINATORS			
Primary illuminator (J15)		Spot illuminator (J11)	
Reference on the board	Cable colour	Reference on the board	Cable colour
PW2	White	PW2	White
PW1	Black	PW1	Black
A	Green	A	Green
B	Red	B	Red

Tab. 5

Close the housing as described in the relative chapter (8.10 Housing closure, page 20).

8.9 LED illuminator activation and adjustment instructions

The two illuminators can be controlled in different ways depending to the unit configuration (10.3 Camera configuration, page 21).

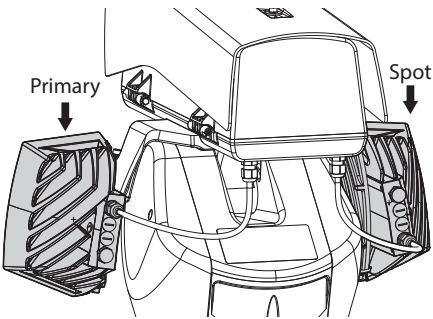


Fig. 23

The illuminators are factory pre-configured as:

- Switch-on threshold regulator: OFF
- Power control: MAX POWER

8.9.1 LED illuminator switching on threshold adjustment

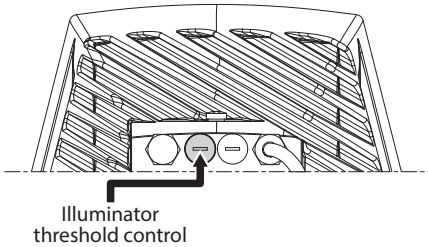


Fig. 24

By rotating the trimmer clockwise, the night mode changeover is anticipated (at a greater luminous value). By rotating the trimmer anti-clockwise, the night mode changeover is delayed (at a lower luminous value).

Wait for appropriate brightness before switching on the illuminator. Rotate the trimmer slowly until the LED on the side of the trimmer switches on. Once the intervention threshold has been surpassed (LED on), rotate it slightly in the opposite direction.

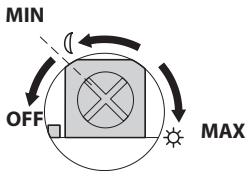


Fig. 25

⚠ After making the adjustments make sure that the plug is closed tight to ensure perfect sealing.

8.9.2 LED illuminator power adjustment

The illuminator is set in the factory to provide maximum power. If you don't need to illuminate distant subjects or if the image is over-exposed for excessive brightness, decrease the power, so that energy saving is also obtained.

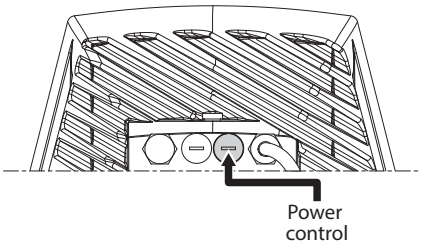


Fig. 26

Loosen the hermetic plug. Rotate the trimmer, clockwise to increase the power of the infrared illuminators and anti-clockwise to decrease it.

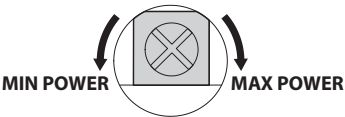


Fig. 27

⚠ After making the adjustments make sure that the plug is closed tight to ensure perfect sealing.

8.9.3 Activation of the LED illuminator via an external dusk switch

The LED illuminators are activated by an external dusk sensor connected to an alarm input.

Perform the following operations:

- Connect the dusk switch to the signal cable connector (AL4, COM, 8.3.3.2 Connection of the alarm inputs, of the twilight switch and of the relays, page 14).
- Adjust the Primary illuminator settings:
 - **Lighting threshold:** Set the value to OFF.
 - **Power supplied:** Set the value as needed (from 50% to 100%).
- Adjust the Spot illuminator settings:
 - **Lighting threshold:** Set the value to OFF.
 - **Power supplied:** Set the value as needed (from 50% to 100%).
- Set the Type of Digital Input 4 to: Force IRCF (10.3 Camera configuration, page 21).

8.9.4 Activation of the LED illuminators via the camera

The LED illuminators are activated according to the detection of the brightness of the scene the camera is focused on. This operation mode is only possible if the unit is equipped with a built-in camera (10.3 Camera configuration, page 21).

Perform the following operations:

- Adjust the Primary illuminator settings:
 - **Lighting threshold:** Set the value to OFF.
 - **Power supplied:** Set the value as needed (from 50% to 100%).

- Adjust the Spot illuminator settings:
 - **Lighting threshold:** Set the value to OFF.
 - **Power supplied:** Set the value as needed (from 50% to 100%).
- Set the Brightness Sensor on: CAMERA (10.3 Camera configuration, page 21).

8.9.5 Inserting an SD Card

It is possible to equip the product with a microSD memory card.

It is recommended that the microSD card have a capacity of 64 GB or more. Video Speed Class microSD card required, with Class V10 or better recommended. If the microSD card does not meet the recommended capacity or write speed, the performance of the onboard storage may suffer and result in the loss of frames or footage.

Insert the memory card into the slot as indicated. Pay attention to the direction of the memory card.

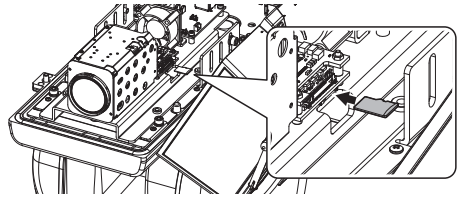


Fig. 28

8.10 Housing closure

After installation and wiring, close the product.

Check that the gasket of the housing is present and in good condition.



Pay attention to the fixing. Tightening torque: 6Nm.

Even if the LED illuminators are not installed, the cable glands must be tightened.



Pay attention to the fixing. Tightening torque: 2Nm.

9 Switching on



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



Do not stay in the vicinity of the device when it is powered. Act on the device only in the absence of a power supply.



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



The automatic pre-heating (De-Ice) process could be started whenever the device is switched on and the ambient temperature is below 0°C (+32°F). The procedure is necessary to guarantee correct operation of the devices even at low temperatures. The duration ranges depending on environmental conditions (from 60 minutes up to 120 minutes).

The unit is switched on by connecting the power supply.

To switch off the unit disconnect the power.

10 Configuration

10.1 Default IP address



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.

10.2 Web interface

10.2.1 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 address: <http://IP address>.

On first access, the Home page will be displayed.

10.3 Camera configuration

Further information on configuring and using the device is available at the link: pelco.com/products/cameras/ptz-cameras

11 Instructions for normal operation

Further information on configuring and using the device is available at the link: pelco.com/products/cameras/ptz-cameras

11.1 Instructions for wiper operation



Do not use the wiper if the ambient temperature is under 0°C or if there is ice.



If it is left on, the wiper automatically disables itself.

12 Accessories

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

12.1 Washer

The product can be equipped with an external pump that provides water to clean the glass.

When a control is provided, the Pan & Tilt is positioned with the window in front of the nozzle..

The pump and wiper are activated for a set period of time. At the end of the operation the P&T returns to its initial position.

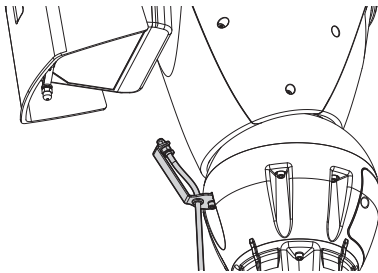


Fig. 29

i For further information refer to the relative chapter (10.3 Camera configuration, page 21).

12.2 Mounting bracket for LED illuminators

A mounting bracket is necessary to install the Pelco LED illuminators.

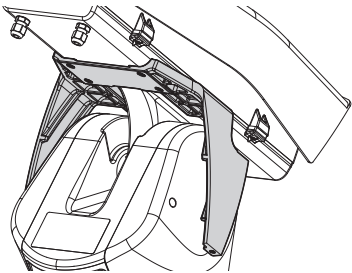


Fig. 30 UPTIRNBKT.

12.3 LED illuminators

The unit can be equipped with LED illuminators.

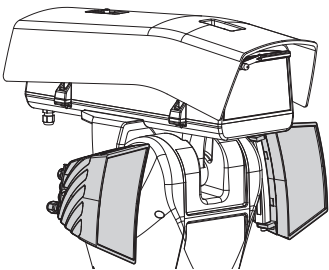


Fig. 31 UPTIRN.

i For further information refer to the relative chapter (8.6 LED illuminators installation (optional features), page 16).

12.4 Wall mount bracket

Wall bracket with internal cable channel.

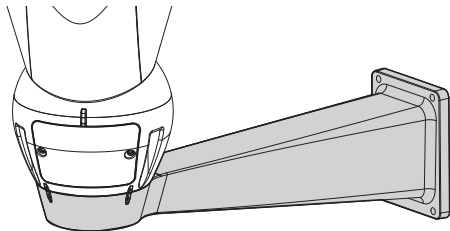


Fig. 32 UPTWBA.

12.5 Parapet bracket

Parapet bracket with internal cable channel.

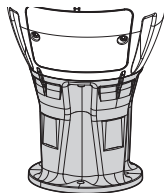


Fig. 33 UPTWB TAB.

12.6 Weatherproof junction box

Junction weatherproof box for the power connexion, external to the Ulisse Enhanced PTZ 2 Series unit (according to the UL norm).

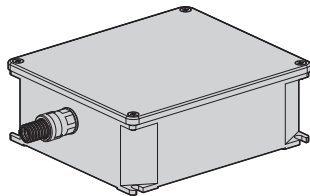


Fig. 34 UPTJBUL.

13 Maintenance



Before doing any technical work on the device, disconnect the power supply.



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

If contacting the Pelco technical service or the authorized support centre, you must provide the product serial number (5.2 Product marking label, page 8).

13.1 Fuses replacement



CAUTION! For continued protection against risk of fire, replace only with same type and rating of fuse. Fuses must be replaced only by service personnel.

If necessary, the connector board's fuses can be replaced (8.2.1 Connector board description, page 12). The new fuses must comply with the directions given in the table.

FUSES REPLACEMENT			
Voltage	Fuse F1	Fuse F2	Fuse F3
24Vac, 50/60Hz	T 10A H 250V 5x20	T 6.3A H 250V 5x20	T 4A H 250V 5x20
120Vac, 50/60Hz	T 4A H 250V 5x20		
230Vac, 50/60Hz	T 4A H 250V 5x20		

Tab. 6

14 Cleaning

14.1 Cleaning the window and plastic parts



Avoid ethyl alcohol, solvents, hydrogenated hydrocarbide, strong acid and alkali. Such products may irreparably damage the surface.

We recommend using a soft cloth with neutral soap diluted with water or specific products to clean the lenses.

15 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.

16 Troubleshooting



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

PROBLEM	The product does not turn on.
CAUSE	Wiring error, blown fuse.
SOLUTION	Make sure the connections are correct. Check the continuity of the fuses and replace them with the indicated models should they fail.

17 Technical drawings



The indicated measurements are expressed in millimetres.

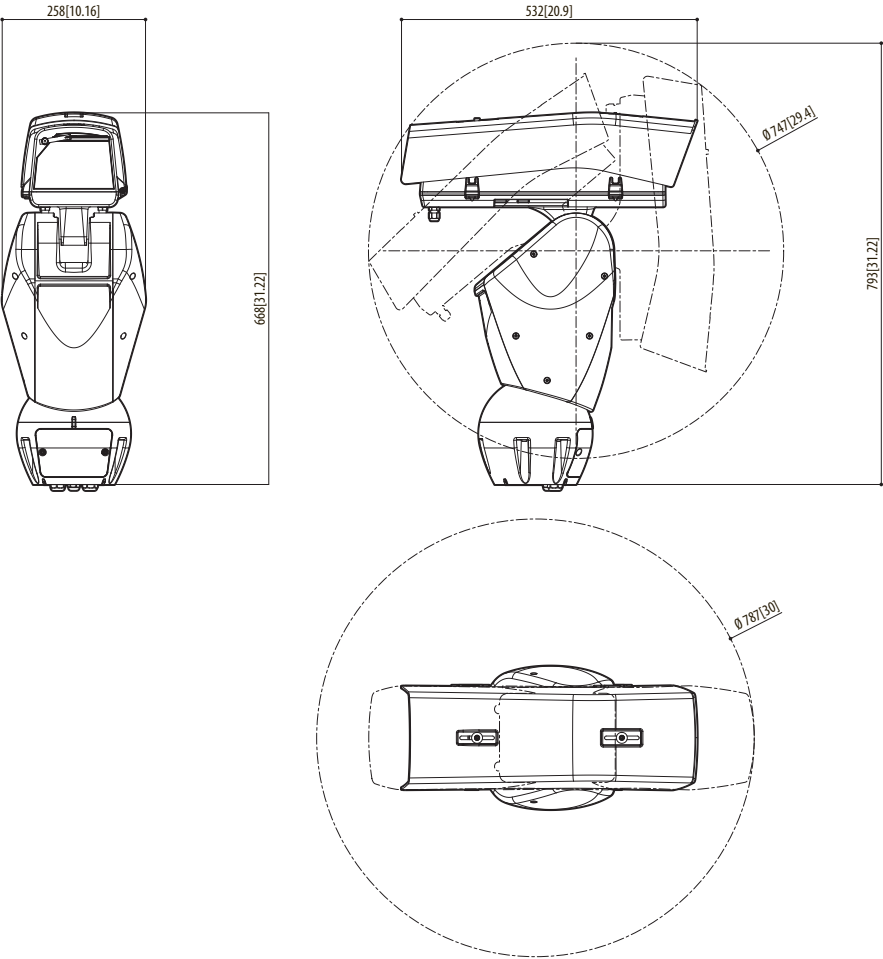


Fig. 35 Ulisse Enhanced PTZ 2 Series.

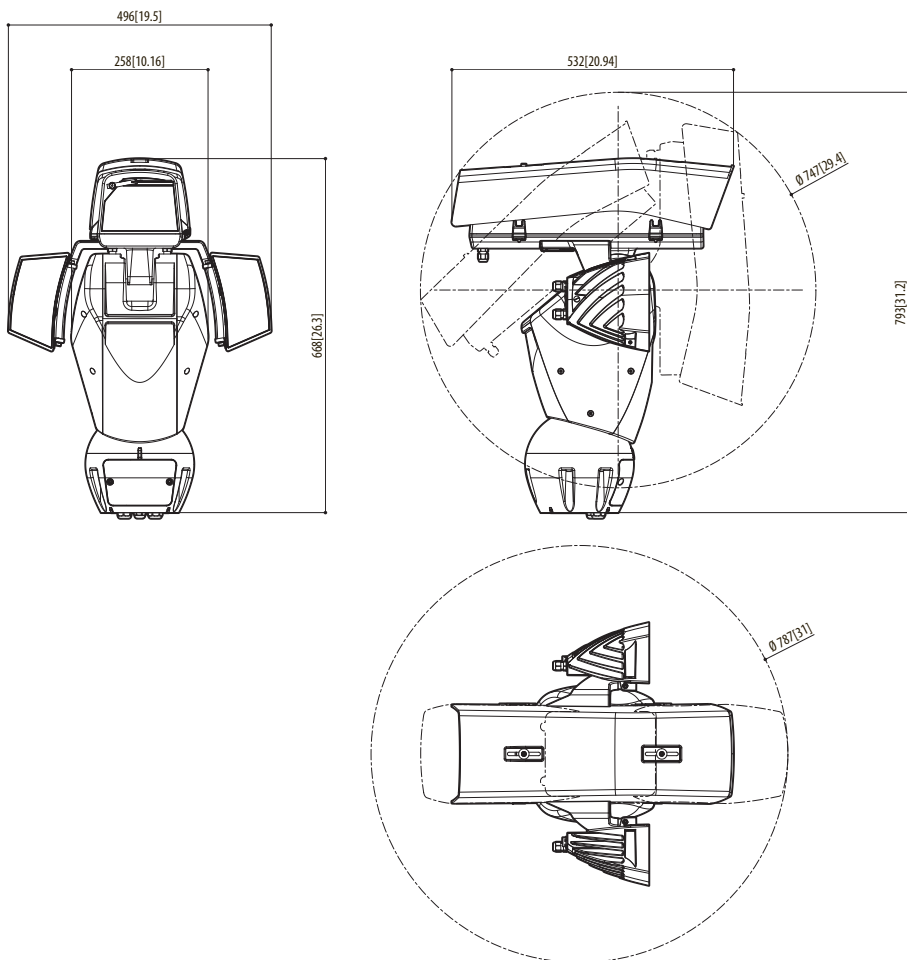


Fig. 36 Ulisse Enhanced PTZ 2 Series, version with two LED illuminators.

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