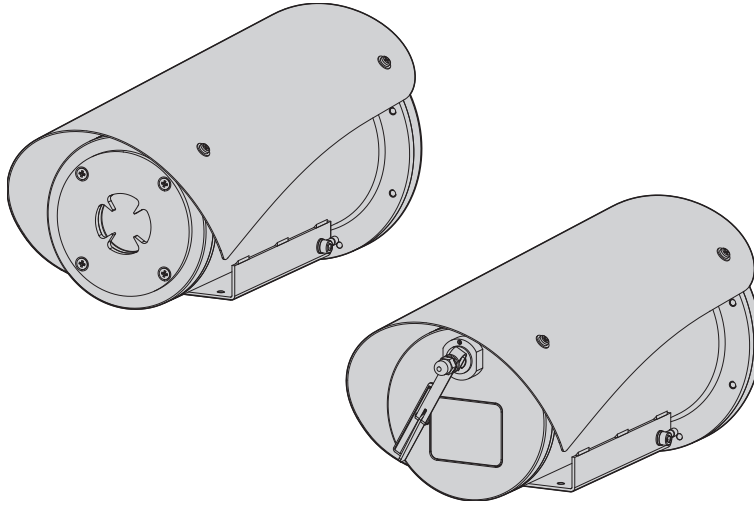




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About this manual

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

Typographical conventions



Danger: Explosion hazard. Read carefully to avoid danger of explosion.



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.

Information in sections with underlined titles information is subject to certification.

Notes on copyright and information on trademarks

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

Safety

Safety rules for hazardous environment



Danger: Explosion hazard. Read carefully to avoid danger of explosion.

- Installation and maintenance of the device must be carried out by specialist technical staff in compliance with the applicable reference standard EN/IEC 60079-14, EN/IEC 60079-17 and national standards.
- Do not open the device when powered and in explosive atmosphere.
- Use appropriate tools for the installation. The particular nature of the site where the device is to be installed may mean special tools are required for installation.
- Make all connections, installation and maintenance work in a non-explosive atmosphere.
- Before powering the device in an explosive atmosphere, ensure the enclosure is closed correctly.
- The temperature of the surfaces of the device is increased by exposure to direct sunlight. The surface temperature class of the device was determined only with ambient temperature, without taking into consideration direct sunlight.
- Make sure that all of the device is certified for the application and for the environment in which it

will be installed.

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

Safety rules



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

- Make sure that the power is off when installing or carrying out maintenance, with the circuit-breaker open.
- A power disconnect device must be included in the electrical installation, and it must be very quickly recognizable and operated if needed.
- The electrical system to which the unit is connected must be equipped with a 10A max automatic bipolar circuit breaker. 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 device can only be considered to be switched off when the power supply has been disconnected and the connection cables to other devices have been removed.
- Be careful not to use cables that seem worn or old.
- All the cables must comply with IEC60332-1-2, IEC 60332-1-3 and IEC/EN60079-14.
- Before starting the installation make sure that the specifications for the power supply for the installation correspond with those required by the device.
- For continued protection against risk of fire, replace only with same type and rating of fuse. Fuses must be replaced only by service personnel.
- This equipment is not suitable for use in locations where children are likely to be present.
- This device must be connected to an earth conductor (protective earth). This connection must only be performed through the power line connector.
- Check that the power supply socket and cable are adequately dimensioned.
- Use suitable cables that can withstand the operating temperatures.
- All disconnected cables must be electrically isolated.



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.

- The housing can be installed in any position.
- Make sure that the installation complies with local regulations and specifications.
- Make connections and tests in the laboratory before carrying out installation on site.
- Make sure the product is to be secured to building before operation.
- The manufacturer declines all liability for damage to any of the apparatus mentioned in this installation manual, when resulting from tampering, use of non-original spare parts, installation, maintenance and repairs performed by non-authorized, nonskilled personnel.
- For technical services, consult only and exclusively authorized technicians.
- This product must only be repaired by suitably trained personnel or under the supervision of manufacturer personnel in accordance with the foreseen terms and conditions: IEC/EN60079-19.
- Only use original manufacturer spare parts. Strictly adhere to the maintenance instructions attached to each replacement kit.

- Since the user is responsible for choosing the surface to which the unit is to be anchored, we do not supply the fixing devices for attaching the unit firmly to the particular surface. The installer is responsible for choosing fixing devices suitable for the specific purpose on hand. Use methods and materials capable of supporting at least 4 times the weight of the device.



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

- Given the considerable weight of the system, use an appropriate transport and handling system. The staff must carry out the handling of the product in compliance with the common accident prevention standards.
- Before proceeding with installation, check the supplied material to make sure it corresponds to the order specification by examining the identification labels.
- Equipment is intended for installation in restricted access area. Device shall be supplied by PS2 energy source.
- 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.
- For all maintenance interventions, we recommend you return the product to the laboratory that will perform all required operations.
- 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 (not for EXTE/EXRE series).
- To comply with the main supply voltage dips and short interruption requirements, use a suitable Uninterruptible Power Supply (UPS) to power the unit.
- Do not use the wiper if the ambient temperature is under 0°C or if there is ice.

Product description and type designation

This explosion-proof housing is designed for use with cameras operating in industrial environments where explosive atmospheres may exist due to gas, vapors, mists, or air or powder mixtures.

The housing is constructed of micro shot peened AISI 316L stainless steel.

The rear flange houses the internal slide for camera positioning. It also contains the internal electronics that manage power supply and heating elements for the housing.

Cables must be routed through a threaded 3/4" NPT hole drilled into the bottom of the rear cover plate. Connections must be established in accordance with IEC/EN60079-14.

Range of use

The device is designed for fixed location use in surveillance of areas classified as Zone 1-21 and Zone 2-22 with potentially explosive atmospheres.

The unit has been built and certified in compliance with directive 2014/34/UE and with the international standards IECEx, which define its range of application and minimum safety requirements.

Specific use conditions

- The max power consumption of the video camera installed inside the enclosure and its dimensions shall be:

Housing	Power consumption		Max dimensions of video camera (WxHxL)	
	With video encoder	Without video encoder	With video encoder IP	Without video encoder IP
MVX	6W	8W	70mmx65mmx120mm	70mmx65mmx140mm
MVXT	6W	8W	70mmx65mmx120mm	70mmx65mmx140mm
MVXHD	6W	8W	70mmx65mmx120mm	70mmx65mmx140mm
EXF	6W	8W	70mmx65mmx120mm	70mmx65mmx140mm
EXTE	-	8W	-	70mmx65mmx140mm
EXRE	-	8W	-	70mmx65mmx140mm

- The video encoder, if present, is part of the pcb preinstalled by the manufacturer.
- It is required to use cables and cable glands, fittings or other connection elements suitable for a minimum temp of +80°C.
- Specific guidance noted to contact the original manufacturer for information on the dimensions of the flameproof joints is reported in the user manual.
- The rear access cover has to be closed with eight M5x0.8 hexagon socket stainless steel screws (A4 class 70, head per ISO 4762, long 12 mm, yield stress 450 N/mm²).
- It is not possible to install A video camera or component with batteries.
- When the enclosure is used with a conduit, the following requirement must be satisfied: The distance from the face of the seal closest to the enclosure (or intended end-use enclosure), and the outside wall of the enclosure (or intended end-use enclosure) shall be as small as practical, but in no case more than the size of the conduit or 50 mm, whichever is the lesser.
- In the user and maintenance manual is written: "Contact the original manufacturer for information on the dimensions of the flameproof joints", because of the multi-step joint.

Gas Group, Dust Group and Temperatures

The device is certified for the IIC group (Gas), depending on the ambient temperature, and for the IIIC group (dust). The temperature class, the maximum surface temperature and the temperature depend on the ambient temperature. Specific details are provided in the model-specific chapters for each model.

MVX, MVXHD, MVXT

MARKING DETAILS

Ex II 2 G Ex db IIC Tx Gb

Ex II 2 D Ex tb IIIC Tx C Db IP66/IP68

The ambient temperature depends on the model:

Ambient temperature	T Class	T Surface
-60°C ≤ Ta ≤ +65°C	T5	T100°C
-50°C ≤ Ta ≤ +65°C	T5	T100°C

Ambient temperature	T Class	T Surface
$-40^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$	T5	T100°C
$-60^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$	T6	T85°C
$-50^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$	T6	T85°C
$-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$	T6	T85°C

EXF series (Trademark Pelco)

MARKING DETAILS

Ex II 2 G Ex db IIC T6...T5 Gb

Ex II 2 D Ex tb IIIC T85°C...T100°C Db IP66/IP68

$T_x^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ or $+65^{\circ}\text{C}$ (T_x depends on model: may be -40°C or -50°C or -60°C)

Ambient temperature	T Class	T Surface
$+65^{\circ}\text{C}$	T5	T100°C
$+55^{\circ}\text{C}$	T6	T85°C

EXTE, EXRE series (Trademark Pelco and Videoteec)

MARKING DETAILS

Ex II 2 G Ex db IIC T6...T5 Gb

Ex II 2 D Ex tb IIIC T85°C...T100°C Db IP66/IP68

$T_x^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ or $+65^{\circ}\text{C}$ (T_x depends on model: may be -40°C or -50°C or -60°C)

Ambient temperature	T Class	T Surface
$+65^{\circ}\text{C}$	T5	T100°C
$+55^{\circ}\text{C}$	T6	T85°C

Cable entry

The device can have one or two 3/4" NPT cable entries.

The device can be supplied with plastic caps that protect cable entry points, which cannot be used for installation.

Unused cable entries must be closed using appropriate Ex-certified locking devices rated for "db" and "tb" type protection that are suitable for the use conditions and installed correctly.

All cable glands shall be Ex certified, as appropriate, rated for "db" and "tb" type protection that are suitable for the use conditions when installed correctly.

When a conduit is used, a suitably appropriate Ex certified stopping box must be used, rated for "db" and "tb" type protection that are suitable for the use conditions when installed correctly.

The stopping box must be fitted within 50mm (1.97in) of the enclosure entry.

The cable entry temperatures are specified in the marking.

To maintain the IP level of product use cable glands with appropriate IP level and apply to threads a sealant compliant with standard IEC/EN60079-14.

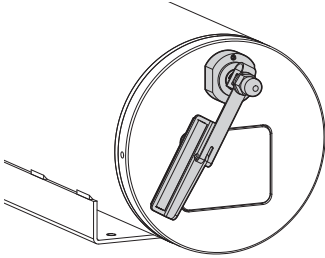
Stopping plug

In the two entries version an EX-certified stopping plug is supplied with the device that provides "db" and "tb" type protection. Thread sealant compliant with IEC/EN60079-14 is also supplied, to ensure the correct IP rating is maintained for the product.

Variants

Tempered glass and integrated wiper

The product is equipped with tempered glass and wiper.



Germanium window



Danger:When the unit is working the protection grid must always be installed. Failure to follow this instruction may create serious safety hazards for people and for the installation, and will also invalidate the warranty.

The version with germanium window has been developed for applications with thermal cameras. This version is fitted with a protective grid.

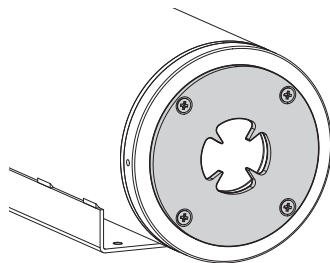


Figure 1: Grid.

Product marking label

MVX, MVXHD, MVXT series (Trademark Videotec)

2/2

SPACE FOR OTHER CERTIFICATIONS

 VIDEOTEC s.r.l. Via Friuli 6 36015 Schio (VI) ITALY www.videotec.com	Model: 1 Electrical: 12-24Vdc 24Vac 3.5A 50/60Hz Camera: 3	Serial N°: 2 Cable entry size: 3/4" NPT	4 ITS 15 ATEX 18330X Ⓔ II 2 G Ex db IIC 6 Gb Ⓔ II 2 D Ex tb IIIC 7 Db IP66/68 8 8 ≤ Ta ≤ 9 5 IECEx ITS 15.0030X Ex db IIC 6 Gb Ex tb IIIC 7 Db IP66/68 8 8 ≤ Tamb ≤ 9	CE 9 1/2  MADE IN ITALY
--	---	---	---	---

Do not open when energized. Ne pas ouvrir sous tension.
Do not open when an explosive atmosphere is present. Ne pas ouvrir si une atmosphère explosive gazeuse est présente.
Use cables and cable glands, fittings or other connection element suitable for a minimum temperature of +80°C. Utilisez des câbles, presse-étoupes, accessoires ou autres éléments de connexion adaptés à une température minimale de + 80°C.

1. Model.
2. The serial number consists in 12 numeric characters, the second and third digits define the last two numbers of the year of manufacture.
3. Power consumption camera (W).
4. ATEX certificate.
5. IECEx certificate.
6. T Class.
7. Max surface temperature.
8. Ambient temperature.
9. Notify body number providing quality assessment.

EXF series (Trademark Pelco)

2/2

SPACE FOR OTHER CERTIFICATIONS

1 VIDEOTEC s.r.l. Via Friuli 6, 36015 Schio (VI) ITALY	Model: 2 Electrical: 12-24Vdc 24Vac 3.5A 50/60Hz Camera: 4	Serial N°: 3 Cable entry size: 3/4" NPT	ITS 15 ATEX 18330X Ⓔ II 2 G Ex db IIC T6...T5 Gb Ⓔ II 2 D Ex tb IIIC T100°C...T85°C Db IP66/68 5 5 ≤ Ta ≤ +55°C or +65°C IECEx ITS 15.0030X Ex db IIC 6 Gb Ex tb IIIC 7 Db IP66/68 5 5 ≤ Tamb ≤ +55°C or +65°C	CE 6 1/2  MADE IN ITALY
---	---	---	--	---

Do not open when energized. Ne pas ouvrir sous tension.
Do not open when an explosive atmosphere is present. Ne pas ouvrir si une atmosphère explosive gazeuse est présente.
Use cables and cable glands, fittings or other connection element suitable for a minimum temperature of +80°C. Utilisez des câbles, presse-étoupes, accessoires ou autres éléments de connexion adaptés à une température minimale de + 80°C.

1. Trademark.
2. Model.
3. The serial number consists in 12 numeric characters, the second and third digits define the last two numbers of the year of manufacture.
4. Power consumption camera (W).

5. Ambient temperature.
6. Notify body number providing quality assessment.

EXTE, EXRE series (Trademark Videotec and Pelco)

2/2

SPACE FOR OTHER CERTIFICATIONS

1

VIDEOTEC s.r.l.
Via Friuli 6, 36015 Schio (VI)
ITALY

Do not open when energized. Ne pas ouvrir sous tension.
Do not open when an explosive atmosphere is present. Ne pas ouvrir si une atmosphère explosive gazeuse est présente.
Use cables and cable glands, fittings or other connection element suitable for a minimum temperature of +80°C. Utilisez des câbles, presse-étoupes, accessoires ou autres éléments de connexion adaptés à une température minimale de + 80°C.

2

Model:

Electrical: 12Vdc, 24Vac, 50/60Hz 0.8A max or PoE 57Vdc
Camera: 8Wmax

3

Serial N°:

4

Cable entry size:

ITS 15 ATEX 18330X
 II 2 G Ex db IIC T6...T5 Gb
 II 2 D Ex tb IIIC T85°C...T100°C Db IP66/68
 Ta ≤ +55°C or +65°C
 IECEx ITS 15.0030X
 Ex db IIC T6...T5 Gb
 Ex tb IIIC T85°C...T100°C Db IP66/68
 Ta ≤ +55°C or +65°C

1. Trademark.
2. Model.
3. The serial number consists in 12 numeric characters, the second and third digits define the last two numbers of the year of manufacture.
4. Number and type of cable entry.
5. Ambient temperature.
6. Notify body number providing quality assessment.

Model identification

Model identification (VIDEOTEC trademark)

MAXIMUS MVXHD - Product Coding							
	Voltage	Camera	Accessories	Connection	Video output	Model	Release
MVXHD	212Vdc-24Vdc/24Vac	00 Without camera	S Without accessories	0 Without cable, Without cable gland	0 Without videoencoder	00 T5 -60°C/+65°C	B Second release
		** Pre-installed camera	W With wiper	A Cable gland Ex d 3/4" NPT and 4m (13ft) armoured cable	Z IP H.264	01 T5 -50°C/+65°C	
				B Cable gland Ex d 3/4" NPT and 10m (32.8ft) armoured cable		02 T6 -60°C/+55°C	
				F Cable tail 4m (13ft)		03 T6 -50°C/+55°C	
				G Cable tail 4m (32.8ft)		04 T5 -40°C/+65°C	
						05 T6 -40°C/+55°C	

EXSITE® Enhanced 2 Series Installation Manual

Not all combinations are available.

Cameras with Armored Cable

Part Number	Certification	Marking	Ambient temperature	Cable Entry temperature
MVXHD2**WAZ00B MVXHD2**WBZ00B	ITS 15 ATEX 18330X	Ex II 2 G Ex db IIC T5 Gb Ex II 2 D Ex tb IIIC T100°C Db IP66/IP68	-60°C ≤ Ta ≤ +65°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T5 Gb Ex tb IIIC T100°C D IP66/IP68		
	INMETRO UL B 16.0004X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T5 Gb X Ex tb IIIC T100°C Db X		
	UK Ex - ITS21UKEX0379X	Ex II 2 G Ex db IIC T5 Gb Ex II 2 D Ex tb IIIC T100°C Db IP66/IP68		
MVXHD2**WAZ02B MVXHD2**WBZ02B	ITS 15 ATEX 18330X	Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68	-60°C ≤ Ta ≤ +55°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91. B.00274/22	1Ex db IIC T6 Gb X Ex tb IIIC T85°C Db X		
	UK Ex - ITS21 UKEX0379X	Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68		

Cameras with Cable Tail for Installation with Conduit

Part Number	Certification	Marking	Ambient temperature	Cable Entry temperature
MVXHD**0WFZ01B MVXHD**0WGW01B	ITS 15 ATEX 18330X	Ex II 2 G Ex db IIC T5 Gb Ex II 2 D Ex tb IIIC T100°C Db IP66/IP68	-50°C ≤ Ta ≤ +65°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T5 Gb X Ex tb IIIC T100°C Db X		
	UK Ex - ITS21U KEX0379X	Ex II 2 G Ex db IIC T5 Gb Ex II 2 D Ex tb IIIC T100°C Db IP66/IP68		
	KCs 19-KA4BO-0180X, 19-KA4BO-0181X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T5 Gb Zone 21 AEx tb IIIC T100°C Db Class I Div 2 Group A,B,C & D T5 Class II Div 2 Group F & G T100°C		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T5 Gb Ex tb IIIC T100°C Db Class I Div 2 Group A,B,C & D T5 Class II Div 2 Group F & G T100°C		

EXSITE® Enhanced 2 Series Installation Manual

Part Number	Certification	Marking	Ambient temperature	Cable Entry temperature
MVXHD**0WFZ03B MVXHD**0WGW03B	ITS 15 ATEX 18330X	Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68	-50°C ≤ Ta ≤ +55°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T6 Gb X Ex tb IIIC T85°C Db X		
	UK Ex - ITS21 UKEX0379X	Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68		
	KCs 19-KA4BO-0180X, 19-KA4BO-0181X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T6 Gb Zone 21 AEx tb IIIC T85°C Db Class I Div 2 Group A,B,C & D T6 Class II Div 2 Group F & G T85°C		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T6 Gb Ex tb IIIC T85°C Db Class I Div 2 Group A,B,C & D T6 Class II Div 2 Group F & G T85°C		

MAXIMUS MVXT - Product Coding								
	Voltage	Camera	Accessories	Connection	Video output	Model	Release	Thermal camera frequency
MVXT	212Vdc- 24Vdc/ 24Vac	00 Without camera	S Without accessories	0 Without cable, Without cable gland	0 Analog	00 T5 -60°C/+65°C	B Second release	Empty 7.5-8.3 Hz
		** Pre-installed camera		A Cable gland Ex d 3/4" NPT and 4m (13ft) armoured cable	Z IP H.264	01 T5 -50°C/+65°C		25-30 HZ

EXSITE® Enhanced 2 Series Installation Manual

MAXIMUS MVXT - Product Coding								
				B Cable gland Ex d 3/4" NPT and 10m (32.8ft) armoured cable		02 T6 -60°C/+55°C		
				F Cable tail 4m (13ft)		03 T6 -50°C/+55°C		
				G Cable tail 4m (32.8ft)		04 T5 -40°C/+65°C		
						05 T6 -40°C/+55°C		

Not all combinations are available.

Cameras with Armored Cable

Part Number	Certification	Marking	Ambient temperature	Cable Entry temperature
MVXT2*0SAZ00B	ITS 15 ATEX 18330X	Ex II 2 G Ex db IIC T5 Gb	-60°C ≤ Ta ≤ +65°C	+80°C
MVXT2*0SAZ00B*		Ex II 2 D Ex tb IIIC T100°C Db IP66/IP68		
MVXT2*0SBZ00B	IECEX ITS 15.0030X	Ex db IIC T5 Gb		
MVXT2*0SBZ00B*		Ex tb IIIC T100°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T5 Gb X Ex tb IIIC T100°C Db X		
	UK Ex - ITS21 UKEX0379X	Ex II 2 G Ex db IIC T5 Gb Ex II 2 D Ex tb IIIC T100°C Db IP66/IP68		

EXSITE® Enhanced 2 Series Installation Manual

Part Number	Certification	Marking	Ambient temperature	Cable Entry temperature
MVXT2*0SAZ02B	ITS 15 ATEX 18330X	Ex II 2 G Ex db IIC T6 Gb	-60°C ≤ Ta ≤ +55°C	+80°C
MVXT2*0SAZ02B*		Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68		
MVXT2*0SBZ02B	IECEX ITS 15.0030X	Ex db IIC T6 Gb		
MVXT2*0SBZ02B*		Ex tb IIIC T85°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T6 Gb		
		Ex tb IIIC T85°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91. B.00274/22	1Ex db IIC T6 Gb X		
		Ex tb IIIC T85°C Db X		
	UK Ex - ITS21 UKEX0379X	Ex II 2 G Ex db IIC T6 Gb		
		Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68		

Cameras with Cable Tail for Installation with Conduit

Part Number	Certification	Marking	Ambient temperature	Cable Entry temperature
MVXT2**SFZ01B	ITS 15 ATEX 18330X	Ex II 2 G Ex db IIC T5 Gb	-50°C ≤ Ta ≤ +65°C	+80°C
MVXT2**SFZ01B		Ex II 2 D Ex tb IIIC T100°C Db IP66/IP68		
MVXT2**SGZ01B	IECEX ITS 15.0030X	Ex db IIC T5 Gb		
MVXT2**SGZ01B		Ex tb IIIC T100°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T5 Gb X Ex tb IIIC T100°C Db X		
	UK Ex - ITS21U KEX0379X	Ex II 2 G Ex db IIC T5 Gb Ex II 2 D Ex tb IIIC T100°C Dd IP66/IP68		
	KCs 19-KA4BO-0180X, 19-KA4BO-0181X	Ex db IIC T5 Gb Ex tb IIIC T100°C Db IP66/IP68		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T5 Gb Zone 21 AEx tb IIIC T100°C Db Class I Div 2 Group A,B,C & D T5 Class II Div 2 Group F & G T100°C		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T5 Gb Ex tb IIIC T100°C Db Class I Div 2 Group A,B,C & D T5 Class II Div 2 Group F & G T100°C		

EXSITE® Enhanced 2 Series Installation Manual

Part Number	Certification	Marking	Ambient temperature	Cable Entry temperature
MVXT2**SFZ03B MVXT2**SFZ03B MVXT2**SGZ03B MVXT2**SGZ03B	ITS 15 ATEX 18330X	Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68	-50°C ≤ Ta ≤ +55°C	+80°C
	IECEx ITS 15.0030X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	INMETRO UL BR 16.0004X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	EAC Ex RU C-IT.H A91.B.00274/22	1Ex db IIC T6 Gb X Ex tb IIIC T85°C Db X		
	UK Ex - ITS21 UKEX0379X	Ex II 2 G Ex db IIC T6 Gb Ex II 2 D Ex tb IIIC T85°C Db IP66/IP68		
	KCs 19-KA4BO-0180X, 19-KA4BO-0181X	Ex db IIC T6 Gb Ex tb IIIC T85°C Db IP66/IP68		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T6 Gb Zone 21 AEx tb IIIC T85°C Db Class I Div 2 Group A,B,C & D T6 Class II Div 2 Group F & G T85°C		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T6 Gb Ex tb IIIC T85°C Db Class I Div 2 Group A,B,C & D T6 Class II Div 2 Group F & G T85°C		

Model identification (PELCO trademark)

EXSITE ENHANCED 2 FIXED - Product Coding					
Model	Visible Camera	Voltage	T surface	Connection	Wired Cable length
EXF2	230 Pelco® Day/Night Camera	2 12-24Vdc /24Vac	A T6..T5 -60°C/+55 or +65°C	Empty Without connections devices	Empty No lenght cable
			B T6..T5 -50°C/+55 or +65°C	-A Armoured cable	4 Lenght 4m
				-C Cable tail	10 Lenght 10m

Not all combinations are possible

Certifications and Marking				
Part Number	Certification	Marking	Ambient temperature	Cable Entry temperature
EXF2***2A EXF2***2A-A*	ATEX ITS 15ATEX18330X	Ex II 2 G Ex db IIC T6...T5 Gb Ex II 2D Ex tb IIIC T85°C...T100°C Db	-60°C ≤ Ta ≤ +55°C or +65°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		
	UKEx ITS21UKEX0379X	Ex II 2 G Ex db IIC T6...T5 Gb Ex II 2D Ex tb IIIC T85°C...T100°C Db		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T6...T5 Gb Zone 21 AEx tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C,D T6...T5 Class II Div 2, Group F,G T6...T5		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C,D T6...T5 Class II Div 2, Group F,G T6...T5		
	INMETRO UL-BR 16.0004X	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		
	Ts Mark	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		

Certifications and Marking				
EXF2***2B-C*	ATEX ITS 15ATEX18330X	Ex II 2 G Ex db IIC T6...T5 Gb Ex II 2D Ex tb IIIC T85°C...T100°C Db	-50°C ≤ Ta ≤ +55°C or +65°C	+80°C
	IECEX ITS 15.0030X	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		
	UKEx ITS21UKEX0379X	Ex II 2 G Ex db IIC T6...T5 Gb Ex II 2D Ex tb IIIC T85°C...T100°C Db		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T6...T5 Gb Zone 21 AEx tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C,D T6...T5 Class II Div 2, Group F,G T6...T5		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C,D T6...T5 Class II Div 2, Group F,G T6...T5		
	INMETRO UL-BR 16.0004X	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		
	Ts Mark	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		

Model identification (PELCO and VIDEOTEC trademark)

EXSITE ENHANCED 2 FIXED THERMAL - Product Coding							
Model	Thermal Camera Resolution	Thermal Camera Lens	Voltage	T. surface	Connection	Wired Cable Length	Thermal camera frequency
EXTE2	-V 640x512	F06 6mm	-E0 12Vdc 24Vac PoE:IEEE802.3 af Class 3	A T6..T5 -60°C/+55 or 65°C	0 Without cable	0 No cable length	-1 9 Hz
EXRE2	-Q 320x256	F09 9mm			B Without cable, FIPS 140-3 L3		Empty 30 Hz
		F18 18mm					
		F36 36mm					

Not all combinations are possible

Certifications and Marking				
Part Number	Certification	Marking	Ambient temperature	Cable Entry temperature
EXTE***-E0A*0	ATEX ITS 15ATEX18330X	Ex II 2 G Ex db IIC T6...T5 Gb	-60°C ≤ Ta ≤ +55°C or +65°C	+80°C
EXTE***-E0A*0-1		Ex II 2D Ex tb IIIC T85°C...T100°C Db		
EXRE***-E0A*0	IECEX ITS 15.0030X	Ex db IIC T6...T5 Gb		
EXRE***-E0A*0-1		Ex tb IIIC T85°C...T100°C Db		
	UKEx ITS21UKEX0379X	Ex II 2 G Ex db IIC T6...T5 Gb Ex II 2D Ex tb IIIC T85°C...T100°C Db		
	cETLus 5002689 Hazardous Location America	Class I Zone 1 AEx db IIC T6...T5 Gb Zone 21 AEx tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C,D T6...T5 Class II Div 2, Group F,G T6...T5		
	cETLus 5002689 Hazardous Location Canada	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C,D T6...T5 Class II Div 2, Group F,G T6...T5		
	INMETRO UL-BR 16.0004X	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		
	KCs 25-KA4BO-0211X, 25-KA4BO-0212X	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		
	Ts mark	Ex db IIC T6...T5 Gb Ex tb IIIC T85°C...T100°C Db		

For UL e CSA standard reference only



Danger: The flameproof joints are not intended to be repaired.



Info: In the USA, the National Electrical Code (NEC) and in Canada the Canadian Electrical Code (CEC) apply to electrical equipment used on hazardous industrial premises. These Codes contain the installation regulations for electrical facilities in all areas and refer to a number of further standards of other institutions with specifications for the construction and installation of suitable equipment.

Important safety instructions

- Do not open when energized.
Ne pas ouvrir sous tension.
- Do not open when an explosive atmosphere is present.

EXSITE® Enhanced 2 Series Installation Manual

Ne pas ouvrir si une atmosphère explosive gazeuse est présente.

- Use cables and cable glands, fittings or other connection element suitable for a minimum temperature of +80°C.

Utilisez des câbles, presse-étoupes, accessoires ou autres éléments de connexion adaptés à une température minimale de + 80°C.

- Conduit must be sealed within 50mm of conduit entrance to the enclosure. Refer to installation instructions for the specific conditions of use.

Le conduit doit être scellé au caisson dans 50 mm de l'entrée du conduit. Merci de vous référer au manuel pour les conditions spécifiques d'utilisation.

Marking

MVX*, MVXHD*, MVXT* (Trademark Videotec)

ETL for America:

Class I, Zone 1, AEx db IIC Tx Gb

Zone 21, AEx tb IIIC Tx Db

Class I, Div 2 Group A,B,C,D Tx

Class II, Div 2 Group F and G Tx

ETL for Canada:

Ex II 2G Ex db IIC Tx Gb

Ex II 2D Ex tb IIIC Tx Db

Class I, Div 2 Group A,B,C,D Tx

Class II, Div 2 Group F and G Tx

Ambient temperature	T Class/ Max. Surface Temperature (Tx/Tx)
-60°C ≤ Ta ≤ +65°C	T5/T100°C
-50°C ≤ Ta ≤ +65°C	T5/T100°C
-40°C ≤ Ta ≤ +65°C	T5/T100°C
-60°C ≤ Ta ≤ +55°C	T6/T85°C
-50°C ≤ Ta ≤ +55°C	T6/T85°C
-40°C ≤ Ta ≤ +55°C	T6/T85°C

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VIDIOTEC s.r.l. Via Friuli 6, 36015 Schio (VI) ITALY Model: 2 Electrical: 12-24Vdc 24Vac 3.5A 50/60Hz Camera: 4 Serial N°: 3 Cable entry size: 3/4" NPT		2/2 ETL21CA15004X Class I, Zone 1, AEx db IIC T6...T5 Gb Zone 21, AEx tb IIIC T85°C...T100°C Db Class I Div 2 Group A,B,C,D T6...T5 Class II Div 2 Group F and G T85°C...T100°C Conforms to UL Std. UL 60079-0, UL Std. 60079-1, UL Std. 60079-31 Cert. to CSA Std. C22.2 No. 60079-0, CSA Std. C22.2 No. 60079-1, CSA Std. C22.2 No. 60079-31 Conduit must be sealed within 50mm of conduit entrance to the enclosure. Refer to installation instruction for the specific conditions of use. Le conduit doit être scellé au caisson dans 50 mm de l'entrée du conduit. Merci de vous référer au manuel pour les conditions spécifiques d'utilisation. Intertek 5002689
Do not open when energized. Ne pas ouvrir sous tension. Do not open when an explosive atmosphere is present. Ne pas ouvrir si une atmosphère explosive gazeuse est présente. Use cables and cable glands, fittings or other connection element suitable for a minimum temperature of +80°C. Utilisez des câbles, presse-étoupes, accessoires ou autres éléments de connexion adaptés à une température minimale de + 80°C.		MADE IN ITALY

1. Trademark and manufacturer address.
2. Model.
3. The serial number consists in 12 numeric characters, the second and third digits define the last two numbers of the year of manufacture.
4. Power consumption camera (W).
5. ETL for America.
6. ETL for Canada.
7. T Class.
8. Max surface temperature.
9. Ambient temperature.

EXF* (Trademark PELCO)

ETL for America:

Class I, Zone 1, AEx db IIC T6...T5 Gb

Zone 21, AEx tb IIIC T85°C...T100°C Db

Class I, Div 2 Group A,B,C,D T6...T5

Class II, Div 2 Group F and G T85°C...T100°C

$T_x^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ or $+65^{\circ}\text{C}$ (T_x depends on model: may be -40°C or -50°C or -60°C)

ETL for Canada:

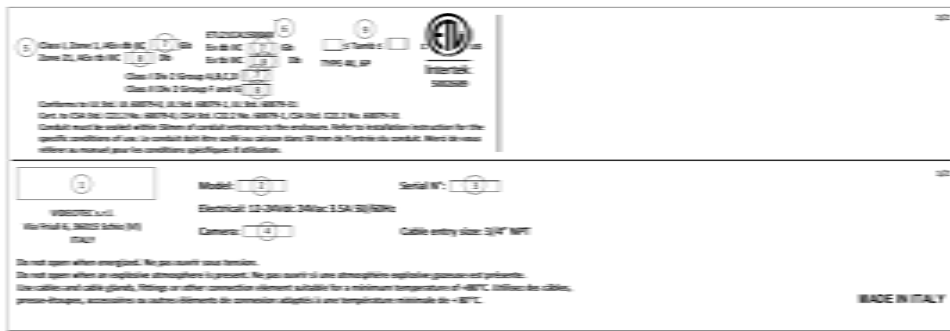
Ex II 2G Ex db IIC T6...T5 Gb

Ex II 2D Ex tb IIIC T85°C...T100°C Db

Class I, Div 2 Group A,B,C,D T6...T5

Class II, Div 2 Group F and G T85°C...T100°C

$T_x^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ or $+65^{\circ}\text{C}$ (T_x depends on model: may be -40°C or -50°C or -60°C)



1. Trademark and manufacturer address
2. Model
3. The serial number consists in 12 numeric characters, the second and third digits define the last two numbers of the year of manufacture.
4. Power consumption camera (W).
5. ETL for America marking.
6. ETL for Canada marking.
7. T Class.
8. Max surface temperature.
9. Ambient temperature.

EXTE* and EXRE* (Trademark PELCO)

ETL for America:

Class I, Zone 1, AEx db IIC T6...T5 Gb

Zone 21, AEx tb IIIC T85°C...T100°C Db

Class I, Div 2 Group A,B,C,D T6...T5

Class II, Div 2 Group F and G T85°C...T100°C

$T_x^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ or $+65^{\circ}\text{C}$ (T_x depends on model: may be -40°C or -50°C or -60°C)

ETL for Canada:

Ex II 2G Ex db IIC T6...T5 Gb

Ex II 2D Ex tb IIIC T85°C...T100° Db

Class I, Div 2 Group A,B,C,D T6...T5

Class II, Div 2 Group F and G T85°C...T100°C

$T_x^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ or $+65^{\circ}\text{C}$ (T_x depends on model: may be -40°C or -50°C or -60°C)

EXSITE® Enhanced 2 Series Installation Manual

 Class 1, Zone 1, AEx db IIC T6...TS Gb Zone 21, AEx tb IIC T85°C...T100°C Db	 ETL11CA15004X Ex db IIC T6...TS Gb Ex tb IIC T85°C...T100°C Db	 Tamb s +65°C TYPE 4X, 6P	 Intertek 5002689	2/2
Class I Div 2 Group A,B,C,D T6...TS Class II Div 2 Group F and G T6...TS				
Conforms to UL Std. 16, 60079-0, UL Std. 60079-1, UL Std. 60079-31 Cert. to CSA Std. C22.2 No. 60079-0, CSA Std. C22.2 No. 60079-1, CSA Std. C22.2 No. 60079-31 Conduit must be sealed within 50mm of conduit entrance to the enclosure. Refer to Installation instruction for the specific conditions of use. Le conduit doit être scellé au caisson dans 50 mm de l'entrée du conduit. Merci de vous référer au manuel pour les conditions spécifiques d'utilisation.				
 VIDEOTEC s.r.l. Via Friuli 6, 36015 Schio (VI) ITALY	Model: Electrical: 12Vdc, 24Vac, 50/60Hz, 0.8A max or POE 57Vdc Camera: 8Wmax	Serial N°: Cable entry size:	1/2	
Do not open when energized. Ne pas ouvrir sous tension. Do not open when an explosive atmosphere is present. Ne pas ouvrir si une atmosphère explosive gazeuse est présente. Use cables and cable glands, fittings or other connection element suitable for a minimum temperature of +80°C. Utilisez des câbles, presse-étoupes, accessoires ou autres éléments de connexion adaptés à une température minimale de +80°C.				
MADE IN ITALY				

1. Trademark and manufacturer address
2. Model
3. The serial number consists in 12 numeric characters, the second and third digits define the last two numbers of the year of manufacture.
4. Cable entry size
5. ETL for America marking
6. ETL for Canada marking
7. Ambient temperature.

Connections

The choice of connection must comply with local legislation in force NFPA70 (USA) e al CEC (Canada).

Cable glands: select a cable gland in compliance with UL2225 with the following protection AEx db IIC and C22.2 with the following protection Ex db IIC in compliance with the marking of the product.

Conduit: it is necessary to install a sealing device within 50mm of the product input when the conduit is used.

Regulation references

UL 60079-0, 7th Edition, Explosive atmospheres - Part 0: Equipment - General requirements

UL 60079-1, 7th Edition, Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures "d"

UL 60079-31, 2nd Edition, Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t"

CSA C22.2 No. 60079-0:19, Explosive atmospheres - Part 0: Equipment - General requirements

CSA C22.2 No. 60079-1:16, Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures "d"

CSA C22.2 No. 60079-31:15, Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t"

Preparing the product for use



Before carrying out any type of maintenance, read the "Safety rules" chapter carefully in the product manual.

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.

Content

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

- Flameproof camera
- Sunshield spacers and screws
- Silicone sheath
- O-ring spare
- Cable ties
- Instruction manual
- Bolts and screws (support assembly)

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.

Preparatory work before installation

-  The product must be fastened with suitable equipment. The fastening must guarantee a mechanical resistance equal to at least 4 times the weight of the device.

Installation

-  Before carrying out any type of maintenance, read the Safety chapter carefully in the product manual.
-  It's strongly recommend testing the device configuration and performance before putting it in the final installation site.

Installation options

It is possible to install the unit with several brackets.

We strongly recommend using only approved brackets and accessories during the installation.

The product must be fastened with suitable equipment. The fastening means guarantee mechanical sealing when a force equal to at least 4 times the weight of the device is applied.

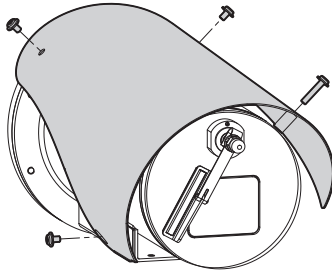
Sunshield mounting

-  Remove the protective film before the sunshield installation (if present).

You can fix the sunshield to the housing using the screws supplied.

Apply a generous amount of thread locking compound (Loctite 270) into the threaded holes in the base of the device.

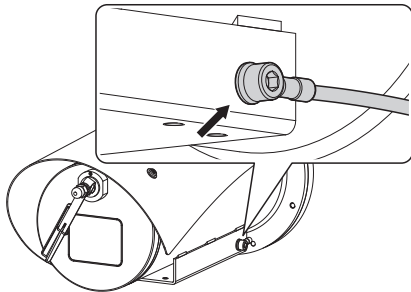
The thread compound must cure for one hour, allowing for this period prior to completing the installation.



Equipotential bonding connection



Caution: External equipotential connections must be made through the eyelet on the outside of the product. Do not use the eyelet as a protective terminal.



Connect the unit to a grounding point using an external cable to ensure equal electrical potential. Use an external cable having a minimum cross-sectional area of 4mm² (11AWG).

Attach the grounding cable to the provided eyelet to ensure equal electrical potential. This eyelet is suitable for cables ranging from 4mm² to 6mm².

Fasten the eyelet using the supplied screw and the toothed washer.

Screw Specifications:

- Diameter/Screw pitch: M5x0.8
- Material: A4 Class 70
- Screw head: ISO 4762
- Length: 12mm (0.47in)

Housing opening



During opening and closure operations of the product, pay attention not to damage the flameproof joint.

To install the camera, open the rear flange of the enclosure.

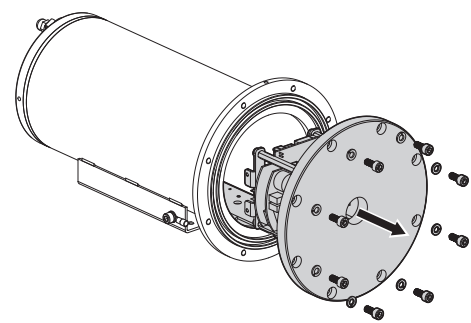
Take out the screws, remove the washers and take the bottom out of the housing.

Screws specifications:

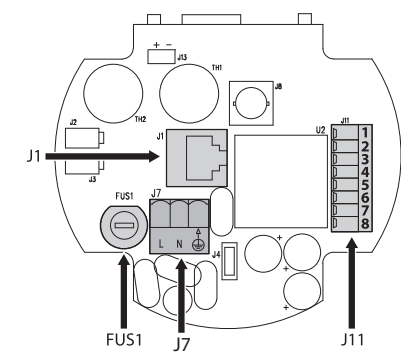
EXSITE® Enhanced 2 Series Installation Manual

- Diameter/Screw pitch: M5x0.8
- Material: A4 Class 70
- Screw head: ISO 4762
- Length: 12mm (0.47in)
- Yield stress (min): 450N/mm²

i Be very careful when opening the version with built-in wiper. Take the slide out slowly to avoid damaging the connections. Disconnect the connectors before taking the slide out completely.

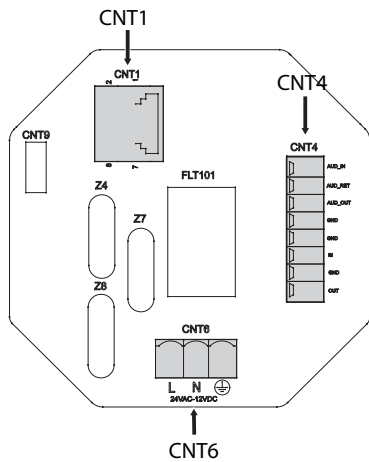


Connector board description (MVXHD, MVXT, EXF series)



Connector Board Description (MVXHD, MVXT, EXF series)	
Connector/ Terminal	Function
J1	Ethernet
J11	Relay, alarms, serial line, factory default
J7	Power supply line
FUS 1	Fuse

Connector board description (EXTE, EXRE series)



Connector Board description (EXTE, EXRE series)	
Connector	Function
CNT1	Ethernet
CNT4	Audio input/output, Input (alarm), Output (relay)
CNT6	Power supply line

Connection of the connector board

Connecting the power supply

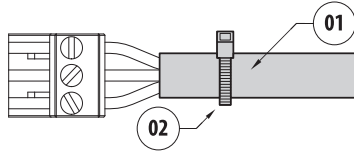
-  Electrical connections must be performed with the power supply disconnected and the circuit-breaker open.
-  At the start of the installation make sure that the specifications for the power supply for the installation corresponds with those required by the device.
-  **Caution:** TNV-1 installation type. The installation is type TNV-1, do not connect it to SELV circuits.
-  Check that the power supply socket and cable are adequately dimensioned.
-  Safety earth connections, use suitable cable sections: 2.5mm² (13AWG).

Connecting the power supply	
Colour	Terminals
Defined by the installer	~/+
Defined by the installer	~/ -
Yellow/Green	

The power supply cables must be connected to the connector board power supply terminal,

being careful when fixing the ground cable.

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



In relation to the type of power supply, comply with the maximum lengths for the power supply cables set forth in the table.

Cable specifications		
Cable section	Supply voltage	Maximum cable length
1mm ² (17AWG)	12 Vdc	5m (16ft)
	24 Vdc	15m (49.2ft)
	24 Vac	30m (98ft)
1.5mm ² (16AWG)	12 Vdc	7m (23ft)
	24 Vdc	25m (82ft)
	24 Vac	45m (147.6ft)
2.5mm ² (13AWG)	12 Vdc	15m (49.2ft)
	24 Vdc	40m (131ft)
	24 Vac	80m (262ft)

Electrical rating (MVXHD, MVXT series)

Supply voltage	Max electrical ratings			Max power dissipation of camera kit	
				Without video encoder	With video encoder
24 Vdc	2.2 A	-	50W	8 W	6 W
12 Vdc	3.5 A	-	40W	8 W	6 W
24 Vac	2.2 A	50-60 Hz	50W	8 W	6 W

Electrical rating (EXF series)

Supply voltage	Max electrical ratings			Max power dissipation of camera kit
24 Vdc	2.2 A	-	50 W	8 W
12 Vdc	3.5 A	-	40 W	
24 Vac	2.2 A	50-60 Hz	50 W	

Electrical rating (EXTE, EXRE series)

Supply voltage	Max electrical ratings			Max power dissipation of camera kit
12 Vdc	0.8 A	-	10 W	8 W
24 Vac	0.5 A	50-60 Hz		
PoE, 57Vdc	0.17 A	-		

-  The camera can either be powered by Power over Ethernet (PoE) rated 48 VDC, or auxiliary power rated 12 VDC or 24 VAC.

Ethernet cable connection

The Ethernet network cable leading out of the housing must be connected to output connectors:

- J1 in MVXHD, MVXT, EXF
- CNT1 in EXTE, EXRE

-  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.

Connecting alarms, remote reset and relays (MVXHD, MVXT and EXF series)

The unit is equipped with the alarms and relays listed in the relative table.

-  **Caution:** TNV-1 installation type. The installation is type TNV-1, do not connect it to SELV circuits.

-  Use a shielded multipolar cable. Connect the braiding of the shielded cable to terminal 8.

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

The output signal cables must be connected to the connector for the relays, alarms, serial line, factory default.

Description of the terminal (J11)	
Terminal contacts	Function
1	RS-485 A (+)
2	RS-485 B (-)
3	Relay 1, Terminal A
4	Relay 1, Terminal B

Description of the terminal (J11)	
5	Alarm
6	GND
7	Reset
8	Shield

I/O Cable Connection



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

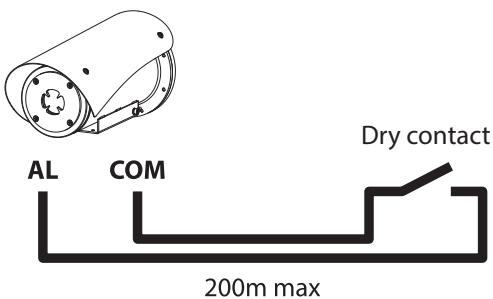


The shielding of the I/O cable must be grounded.

I/O Cable Connection	
Color	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

Connecting an alarm with dry contact

For a free contact alarm, connect the wires as shown in the diagram.



The alarm's clean contact can be configured as normally open (NO) or normally closed (NC) using the web interface.

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 0.2mm² (30AWG) up to 1mm² (16AWG).

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

Connecting alarms, relay and audio in/out (EXTE, EXRE)

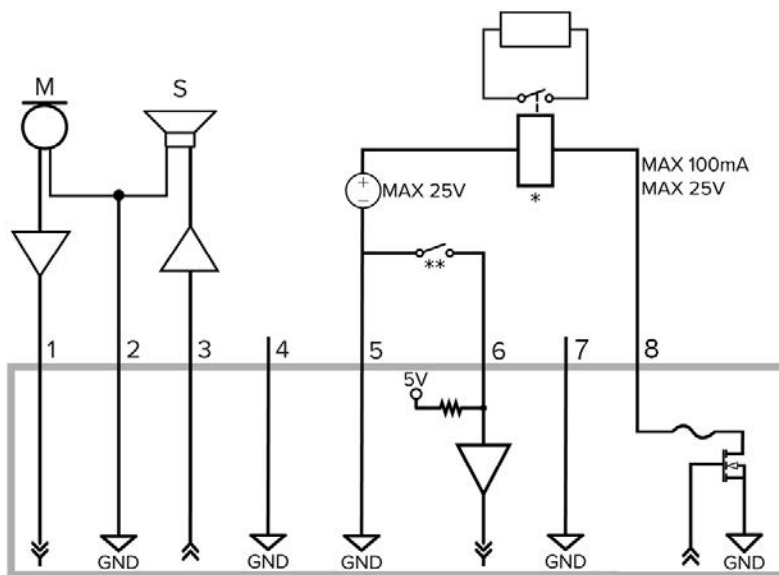
i Use a shielded multipolar cable. Connect the braiding of the shielded cable to terminal CNT4.

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

The output signal cables must be connected to the connector for the Audio input/output, Digital input (alarm), Digital Output (relay) (CNT4).

Description of the terminal CNT4	
Terminal contacts	Function
1	AUD_IN
2	AUD_RET
3	AUD_OUT
4	GND
5	GND
6	IN (Alarm)
7	GND
8	OUT (Relay)

Relay, Alarm, microphone and Speaker connections



- * – Relay
- ** – Switch
- M – Microphone
- S – Speaker

Washing system connection



For detailed configuration and usage information, refer to the relative manual.

Housing closure



Verify that the system operates correctly before closing the product and exposing it to a hazardous atmosphere.



During opening and closure operations of the product, be careful not to damage the flameproof joint.



If the sealing is damaged, replace it with the supplied replacement.



In the integrated wiper version, connect the wiring before closing the housing (J2, J5).

Ensure that the housing is clean and free of debris before closing.

Arrange the cables to prevent interference during the back cover closure.

Insert the rear flange if the housing body has aligned holes in between the two parts.



Be careful not to damage the O-ring gasket.

Tighten the screws and the washers previously removed.

Screws properties

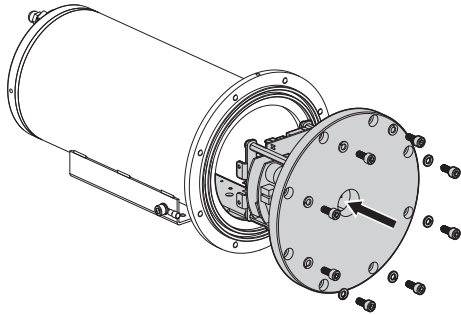
- Diameter/Screw pitch: M5x0.8
- Material: A4 Class 70
- Screw head: ISO 4762
- Length: 12mm (0.47in)
- Yield stress (min): 450N/mm²



The screws must always be secured using the provided washers.



Pay attention to the fastening. Tightening torque: From 8Nm up to 9Nm.



Switching on

-  Before carrying out any type of maintenance, read the "*Safety*" chapter carefully in the product manual.
-  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 preheating 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.

Configuration

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. Configure 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.

Web interface

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

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

Maintenance

 Before performing any maintenance, carefully review the Safety chapter in this manual.

When contacting support for assistance, please provide the serial number and the identification code of the model.

Routine Maintenance

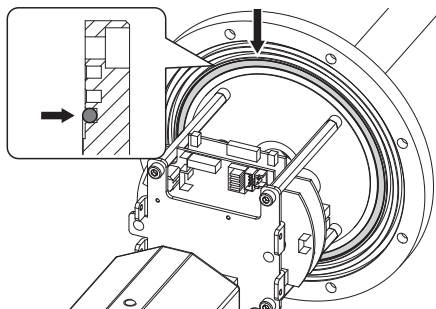
Inspecting the cables

The cables must not show signs of damage or wear, which could generate hazardous situations. In this case extraordinary maintenance is necessary.

Replacing the rear flange gasket

If the O-ring gasket shows signs of deterioration, replace it with the supplied gasket. Use only genuine manufacturer parts.

Carefully install the new gasket in its designated position.



Fuses replacement (MVXHD, MVXT, EXF)

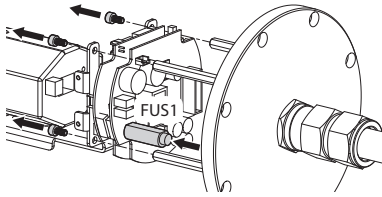
 CAUTION! For continued protection against risk of fire, replace only with same type and rating of fuse. Fuses must be replaced only by service personnel.

The used fuse is described below

Fuses Replacement	
Supply voltage	Fuse (FUS1)
12Vdc	T 2A H 250V 5x20
24Vdc	T 2A H 250V 5x20
24Vac, 50/60Hz	T 2A H 250V 5x20

As an alternative, use an approved fuse featuring the same characteristics.

It is necessary to loosen the screws that secure the slide to the spacers on the bottom and disconnect the connectors from the board.



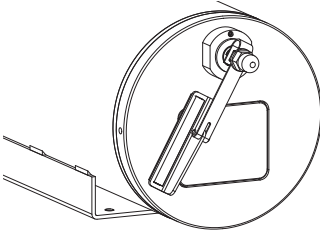
Fuses replacement (EXTE, EXRE series)

No replaceable fuses.

Replacement of the wiper blade

In models equipped with a wiper, the worn blades can be replaced.

Unscrew the rivet nut fastening the blade and remove it. Replace the worn blade with a new one. Reposition the rivet nut adjusting fastening until the blade correctly adheres to the glass. Activate the wiper to check the blade is correctly adjusted.



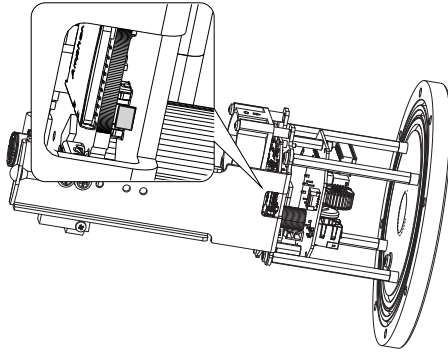
Extraordinary Maintenance

Factory Default (MVXHD, MVXT, EXF series)

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 gray and green wires.
- Wait for 3 minutes.
- Switch off the unit.
- Disconnect the previously connected green and gray wires.
- Power the unit.

Factory Default (EXTE, EXRE series)



The firmware revert button is near the SD card slot.

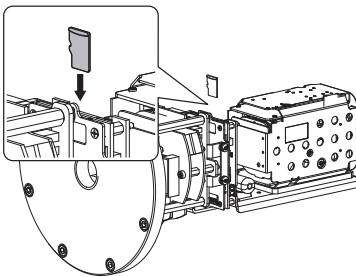
1. Ensure the device is powered on.
2. Using a straightened paperclip or similar tool, gently press and hold the firmware revert button.
3. Release the button after three seconds.

 Do not apply excessive force. Inserting the tool too far may damage the camera.

Inserting an SD Card (MVXHD, MVXT, EXF series)

 For instructions on opening and closing the camera, refer to the relevant chapter.

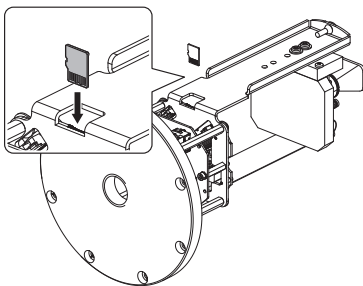
To enable video storage, insert an industrial-grade microSD card into the designated slot.



Inserting an SD Card (EXTE, EXRE series)

 For instructions on opening and closing the camera, refer to the relevant chapter.

To enable video storage, insert an industrial-grade microSD card into the designated slot.



Cleaning



Cleaning frequency will depend on the environment where the product is used.

Cleaning the glass window

Clean the glass window using a mild detergent diluted with water.

Cleaning the germanium window



When the unit is working the protection grid must always be installed. Failure to follow this instruction may create serious safety hazards for people and for the installation, and will also invalidate the warranty.



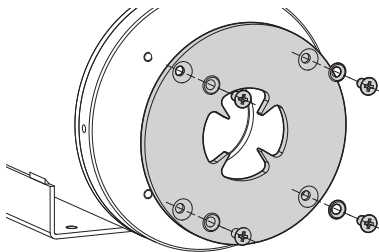
Avoid using ethyl alcohol, solvents, hydrogenated hydro carbide, strong acid and alkali. These substances can permanently damage the surface.



When cleaning the germanium window, be careful not to scratch or damage the outer surface treated with carbon coating. Damage to this coating can affect the surface's infrared transparency.

Clean the germanium window using a mild detergent diluted with water.

Before cleaning, remove the protective grid by unscrewing the screws and washers on the front of the enclosure using a spark-proof tool.



After the cleaning, mount the protection grid with its screws and washers.

Cleaning the product



The product's exterior surface must never be covered in more than 5 mm of dust.

Clean the device using a damp cloth. Compressed air must not be used.

Information on disposal and recycling

The European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) mandates that these devices must not be disposed of in the normal flow of municipal solid waste, but they must 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.

EXSITE® Enhanced 2 Series Installation Manual

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.

Troubleshooting

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

Problem	The product does not turn on.
Cause	Wrong cabling, broken fuse
Solution	Make sure the connections are correct. Check continuity of the fuse and, if faulty, replace it with the indicated model.

Problem	The wiper is frozen and responsive to commands.
Cause	The wiper is either jammed or broken.
Solution	Check that the wiper is free to move. Make sure the wiper cables are not disconnected or damaged.

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.



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