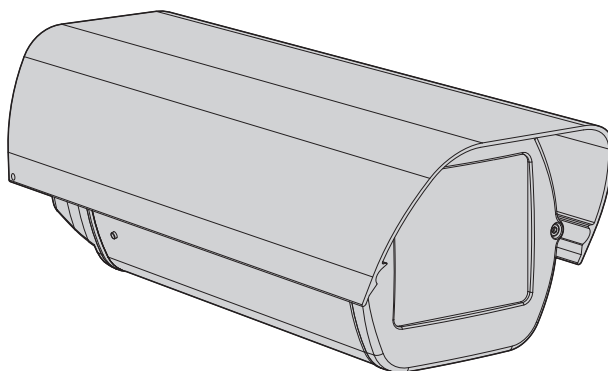




HEB Installation Manual

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1 About this manual

Before installing and using this unit, please read this manual carefully. Be sure to keep it handy for later 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.



WARNING!

Medium level hazard.

This operation is very important for the system to function properly. Please read the procedure described very carefully and carry it out as instructed.



INFO

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

2 Notes on copyright and information on trademarks

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

3 Safety rules



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 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.

- The device must be installed only and exclusively by qualified technical personnel.
- Before any technical work on the appliance, disconnect the power supply.
- Do not use power supply 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. Not 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 ("4.2 Product markings", page 3).

4 Identification

4.1 Product description and type designation

This housing is suitable for a variety of cameras (1/2", 1/3" and 1/4") equipped with a wide range of lenses. Constructed from extruded and die-cast aluminium.

Its weatherproof feature is ensured by the EPDM-rubber gaskets and by 3 cable glands. The use of the cable management bracket gives a total vandal-proof protection to the power and video cables. A wide range of accessories is available: sunshield, normal and fan-assisted heater, blower and camera power supply.

Further, it is also possible to install a blower with an air filter replacing one cable gland. The accessories are supplied factory installed or as a simple upgrade kit.

4.2 Product markings

See the label attached to the outside of the package.

5 Preparing the product for use



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

5.1 Contents and 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.

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

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

- HEB Housing
- Housing equipment:
 - Allen wrenchs
 - Spacers
 - Screws and washers for camera
- Desiccant salt bag
- Instructions manual

5.2 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.

Bear in mind that if the material has to be returned due to a fault, using the original packaging for its transport is strongly recommended.

6 Assembling and installing



Only specialised personnel should be allowed to assemble and install the device.

6.1 Installation



Turn off the power before performing any kind of operation.

6.1.1 How to open the housing

To open the housing, unscrew the two screws placed on the side in the middle of the rear cover plate (01), take the body out (02), hang it onto the suitable holder (*Fig. 02, page 4*) and leave the internal and external slide in the working position. Before closing the housing take off the protective nylon and put silicagel salts envelope into.

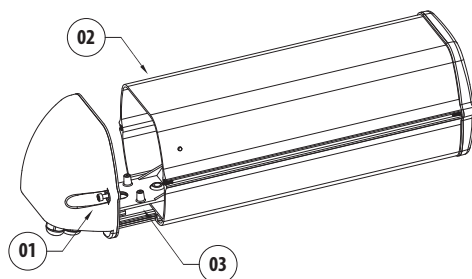


Fig. 01

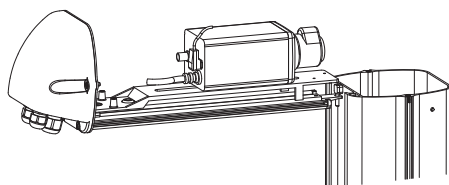


Fig. 02

6.1.2 How to install the camera

This chapter describes how to install the camera into the housing. We wish to remind our customers that power supply can be drawn from the circuit, if available, after checking that the right supply voltage is used.

Remove the body by unscrewing the 2 screws placed on the rear cover plate.

Remove the screw of the internal slide opposite the side with earth connection, in order to have access to the lower part of the slide.

Fix the camera by interposing the insulating washer between the 1/4" screw and the lower part of the slide; set the insulating spacer (01) between the camera and insulating spacer (02) in the upper part of the slide, tighten the 1/4" screw and position the camera wherever wished.

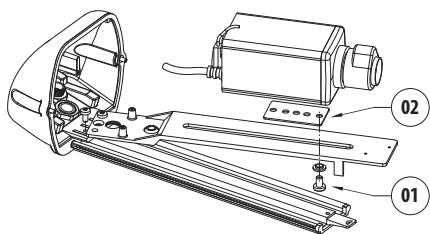


Fig. 03

If necessary use the spacers for a proper positioning of the camera and of the zoom lenses.

Make the necessary electrical connections:

- **Version 230Vac** - When the power supply voltage is 230Vac the circuit will be connected by the terminals shown in the diagram.

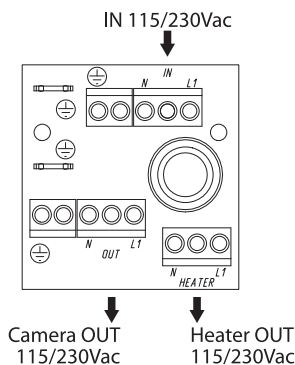


Fig. 04

- **Version 12Vdc/24Vac** - When the power supply voltage is 24Vac the circuit will be connected by the terminals shown in the diagram.

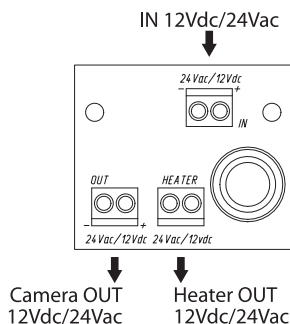


Fig. 05

Re-set the slide in the working position and close the housing.

6.1.3 How to install the heater

The power input of the heater kit can be 12Vdc/24Vac or 115/230Vac. A blower can be installed only if fed with 12Vdc/24Vac.

6.1.4 How to install the blower

The power input of the blower kit can be 12Vdc, 24Vac or 230Vac. The blower kit cannot be mounted with camera power supply.

6.1.5 How to install the camera power supply



The optional power supply cannot be mounted together with the optional blower.

Usable power supplies:

- IN from 100Vac up to 240Vac, 50/60Hz - OUT 12Vdc, 1.25A
- IN 230Vac, 50Hz - OUT 24Vac, 50Hz, 400mA

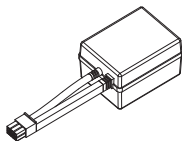


Fig. 06 Camera power supply

7 Maintaining and cleaning

7.1 Window and plastic cover cleaning (PC)

We suggest to use neutral soap diluted with water or specific products for lens cleaning applied with a soft cloth.



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

8 Disposal of waste materials



This symbol mark and recycle system are applied only to EU countries and not applied to the countries in the other area of the world.

Your product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local Community waste collection or Recycling centre.

In the European Union there are separate collection systems for used electrical and electronic products.

9 Technical data

9.1 General

Aluminium back and front cover plates
Extruded aluminium body, external slide and sunshield
Epoxy polyester powder painting, RAL9002 colour
Stainless steel external screws
Supplied with instruction manual, desiccant bag, accessories for camera and lens mounting

9.2 Mechanical

3xM16 cable glands
Glass window (WxH): 90x81mm (3.5x3.2in)
Internal usable area (WxH): 90x85mm (3.5x3.3in)
Internal usable length without accessories
HEB32 320mm (12.6in)
Internal usable length with heater and/or power supply, or heater and/or blower
HEB32 250mm (9.8in)
Unit Weight:
HEB32 3.2kg / 7lb

9.3 Electrical

Heater Ton $15^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ($59^{\circ}\text{F} \pm 37^{\circ}\text{F}$) Toff $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ($71^{\circ}\text{F} \pm 37^{\circ}\text{F}$)

- IN 12Vdc/24Vac, consumption 20W max
- IN 115/230Vac, consumption 40W max

Blower with thermostat and air filter, Ton $35^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ($95^{\circ}\text{F} \pm 37^{\circ}\text{F}$) Toff $20^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ($71^{\circ}\text{F} \pm 37^{\circ}\text{F}$) and back cover

- IN 12Vdc, consumption 4W max
- IN 24Vac, consumption 4W max
- IN 230Vac, consumption 4W max, complete with voltage transformer

Not compatible with bracket with internal cable channel.

Camera power supply

- IN from 100Vac up to 240Vac, 50/60Hz - OUT 12Vdc, 1.25A
- IN 230Vac, 50Hz - OUT 24Vac, 50Hz, 400mA

9.4 Environment

Indoor / Outdoor

Operating temperature with heater: -20°C / $+60^{\circ}\text{C}$ (-4°F / $+140^{\circ}\text{F}$)

Resistant to salty fog until 1000 hours (according to ISO9227)

9.5 Certifications

CE EN61000-6-3, EN60065, EN50130-4, EN62368-1

IP66/IP67 EN60529 with cable glands

IP66/IP67 EN60529 with special gaskets and bracket with internal cable channel

IP55 EN60529 with bracket with internal cable channel

10 Technical drawings



The values are in millimeters.

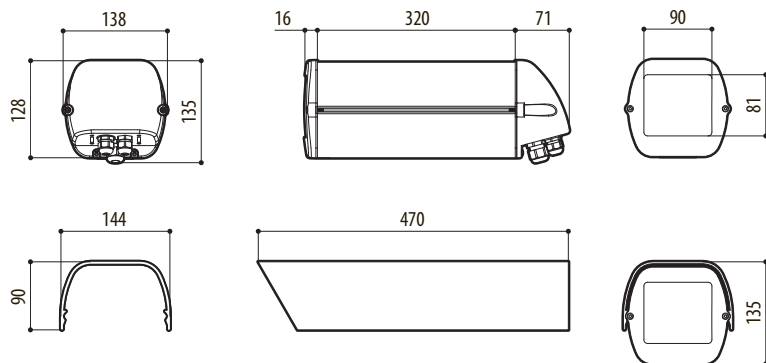


Fig. 07 HEB



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