

- Explosion-proof certified
- Germanium window glass
- Built in baked-on enameled anticorodal aluminium
- Weatherproof standard IP65



The EXHC000G, EXHC003RG housings and EXPTC010G, EXPTC033RG P&T's are made with strong Anticorodal aluminium die-cast alloy of EN-AB 42000-GAS7 group and their chemical composition is defined in the CEI EN 50014 standard. All are equipped with a germanium viewing window designed for Thermal Imaging Cameras installation. The clear germanium glass composition with remarkable properties covers transmission from 7.5 to 14 $\mu$ m IR range with the best optical quality. Depending on the model, all external components are stove enamelled using powder (mod. EXHC000G- EXPTC010G) or treated with special coatings such as PPA571 and EUKOKOTE 711.92 offering an excellent resistance to UV rays, salt-spray, environment polluting substances (mod. EXHC003RG, EXPTC033RG). They are constructed according to the 94/9/CE ATEX standard.

**EXHC000G - EXHC003RG** • The cylindrical body of EXH housing (diameter 210mm and length 400mm) is closed on the opposite sides by two 12mm thick flanges. The Germanium glass, 12mm thick, offers a viewing window of 114mm diameter. The housing is equipped with two 3/4" GAS cable glands that allow the wiring. The camera housing EXHC000G is equipped with an internal housing heater and optional sunshield, while EXHC003RG is equipped of reinforced heater.

**EXPTC010G - EXPTC033RG** • The EXPT system includes a housing with the same characteristics of the EXHC000G and a Pan & Tilt, designed for movement both in horizontal and vertical planes. The peculiar characteristic of the EXPT device is the absence of external wiring in rotation, either for the control of the Pan & Tilt or for the camera and lens. This solution makes the installation and the maintenance of the Pan & Tilt easy. The EXPT includes one multiconductors cable that comes out from the base of the Pan & Tilt through a cable-gland. The EXPTC010G is supplied with preset, autopan and housing heater and optionally with sunshield, while EXPTC033RG offers in addition reinforced housing heater and motors heater.

\* for full specs on the housing and P&T please check explosionproof housing and P&T data sheets.

# EXHC000G-EXPTC010G

## EXPLOSION-PROOF HOUSINGS AND P&T'S FOR THERMAL CAMERAS



### TECHNICAL DATA

#### GENERAL

Non-corrosive die-cast aluminium (anticorrosive)  
 Bicomponent polyurethane enamel with orange peel effect, RAL7032 (EXHC000G, EXPTC010G)  
 Special painting for low temperature, blue color (EXHC003RG, EXPTC033RG). Resistant to stress cracking, adverse weather conditions, detergents, salt-spray and typical airborne pollutants  
 Supplied with instruction manual and conformity declaration

#### MECHANICAL

**EXHC000G, EXHC003RG**  
 2x3/4" GAS cable glands  
**EXPTC010G, EXPTC033RG**  
 1 cable gland 3/4" GAS for armoured cable at the base of the P&T

One multiconductors armoured cable normally supplied 7.5m (24ft) length: 25 poles 0.5mm, 4 poles 1mm, 2 RG174 of 75W

#### Germanium Glass Window

12mm (0.47in) thick, Ø 155mm (6.1in) external, Ø 114mm (4.4in) internal  
 External non-scratch treatment (hard carbon coating)  
 Internal antireflection treatment  
 Spectral range from 7.5 to 14µm IR range  
 Average transmission from 7.5 to 11.5µm, 94%  
 Average transmission from 11.5 to 14µm, 90%

#### External dimensions

**EXHC000G, EXHC003RG**  
 Ø 210x430mm (8.2x16.9in)  
**EXPTC010G, EXPTC033RG**  
 570x407x640mm (22.4x16x25.1in)

#### Internal dimensions

**EXHC000G, EXHC003RG**  
 Ø 180x380mm (7x14.9in)  
**EXPTC010G, EXPTC033RG**  
 Ø 180x380mm (7x14.9in)

#### Internal usable area

**EXHC000G, EXHC003RG**  
 Ø 180x380mm (7x14.9in)  
**EXPTC010G** 100x100x280mm (3.9x3.9x11in)  
**EXPTC033RG** 100x100x280mm (3.9x3.9x11in)

#### ELECTRICAL

Power supply IN 24V AC, 50/60Hz  
 Horizontal and vertical motor consumption: 50W max (EXPTC010G, EXPTC033RG)  
 Standard vertical and horizontal preset potentiometers (EXPTC010G, EXPTC033RG)

**Heater Ton 10°C+/-4°C(50°F+/-7°F) Toff 25°C+/-3°C(77°F+/-5°F)**  
 - IN 24V AC, consumption 20W max (EXHC000G, EXPTC010G)

**Reinforced heater Ton 10°C+/-4°C(50°F+/-7°F) Toff 25°C+/-3°C(77°F+/-5°F)**

3 resistors in the housing (EXHC003RG, EXPTC033RG)

2 resistors in the P&T: one for each motor (EXPTC033RG)  
 Consumption 60W max (EXHC003RG), 100W max (EXPTC033RG)

#### Camera equipped with lens

Max power 20W  
 Power supply max 24V AC for EXPT  
 Power supply 24V AC or 230V AC for EXHC

#### ACCESSORIES

**EXHS000** Sunshield 650mm for EXHC000G and EXHC003RG  
**EXPTS000** Sunshield 760mm for EXPTC010G and EXPTC033RG

#### RELATED PRODUCTS

**EXWBJ000** Wall bracket and ball joint for EXHC000G housing  
**EXWBJ00R** Wall bracket and ball joint for EXHC003RG housing with special painting  
**EXBJ000** Ball joint for EXHC000G housing  
**EXBJ00R** Ball joint for EXHC003RG with special painting  
**EXPTWB000** Bracket for EXPTC010G  
**EXPTWB00R** Bracket for EXPTC033RG with special painting  
**EXDTRX3** Telemetry receiver 17 functions, 230V AC  
**EXDTRX324** Telemetry receiver 17 functions, 24V AC

#### ENVIRONMENT

Indoor / Outdoor  
 Operating temperature with heater: -20°C / +50°C (-4°F / +122°F)  
 Operating temperature with reinforced heater: -40°C / +50°C (-40°F / +122°F)

#### COMPLIANCE TO

**ATEX ( TUV Nord Certification), directive 94/9/CE**  
 Group: II (surface device, no mining)  
 Category: 2 (elevated protection degree, the devices of this category can be installed in zone 1 and 21 and in zone 2 and 22)  
 Atmosphere type: GD (gases and dusts)  
 EEx d: explosion-proof housing for potentially explosive environments  
 IIC: gases group  
 T6-T85°C: temperature classification for gases and dusts respectively  
 IP65: enclosure weatherproof standard  
**EXHC000G - EXHC003RG - EXPTC010G - EXPTC033RG**  
 II 2 GD EExd IIC T6 T85°C IP65 ATEX  
 0044: notify number from competent body

#### SPARE PARTS LIST

**OEXVETG** Front flange complete with glass for EXHC000G and EXPTC010G  
**OCTEX3/4** 3/4" cable gland for EXHC000G and EXHC003RG housings

7 THERMAL IMAGING CAMERA HOUSINGS

Unit Weight:	Package Weight:	Package Dimensions (BxHxL):	Master Carton:
<b>EXHC000G</b> 15 kg / 33lb	<b>EXHC000G</b> 17.5kg / 38.6lb	<b>EXHC000G</b> 61x32x31cm / 24x12.6x12.2in	<b>EXHC000G -</b>
<b>EXPTC010G</b> 56.5kg / 124.5lb	<b>EXPTC010G</b> 61.2kg / 134.9lb	<b>EXPTC010G</b> 76x 41x67cm / 29.9x16.1x26.4in	<b>EXPTC010G -</b>
<b>EXWBJ</b> 6.6kg / 14.5lb	<b>EXWBJ</b> 7kg / 15.4lb	<b>EXWBJ</b> 27x18x49cm / 10.6x7x19.3in	<b>EXWBJ -</b>
<b>EXBJ</b> 3kg / 6.6lb	<b>EXBJ</b> 2.9kg / 6.4lb	<b>EXBJ</b> 16x21x12cm / 6.3x8.3x4.7in	<b>EXBJ -</b>
<b>EXPTWB</b> 11kg / 24.2lb	<b>EXPTWB</b> 11kg / 24.3lb	<b>EXPTWB -</b>	<b>EXPTWB -</b>