NTM
HOUSING FOR THERMAL CAMERAS IN HOSTILE ENVIRONMENTS

MAIN FEATURES

Made of AISI 316L electropolished stainless steel

Germanium window

Cylindrical body enclosed by two 9mm(0.4in)-thick circular flanges

2 PG13.5 cable glands in nickel-plated brass for external connections

IP66/IP67

Available accessories: camera power supply

DESCRIPTION

This housing for thermal camera provides the vision also in complete darkness, fog, rain, smoke or for long-range distances.

The germanium window has non-scratch treated, Hard Carbon Coating (DLC) on the outside and antireflection inside; the spectral range is from 7.5 to 14µm.

The AISI 316L stainless steel construction allows the installation in environments with highly corrosive external agents, such as marine, industrial or chemical environments.

The NTM housing can be installed on NXPTH Pan & Tilt head, to obtain a complete positioning system.

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AVAILABLE MODELS

Model Number	Housing sunshield	Power supply 230Vac	Power supply 24Vac	Ø germanium window
NTM1K1000	✓	✓	–	55mm (2.1in)

TECHNICAL DATA

GENERAL

Constructed from electropolished stainless steel (austenitic alloy stainless steel, corrosion and heat resistant according to the following standards):

- AISI 316L
- UNI 6900-71: X 2 Cr Ni Mo 17 12 2
- DIN 17006: X 2 Cr Ni Mo 17 13 2
- N° werkstoff 1.4404
- AFNOR: Z2 CND 17-12
- BSI: 316S11

The screws utilised are in austenitic alloy stainless steel, corrosion and heat resistant according to the following standards:

- ISO: 7380
- AISI: 316
- ISO quality: A4
- Resistance class ISO: from 50 to 70

MECHANICAL

Cable glands: 2xPG13.5 (nickel-plated brass for external connections)

External body polishing

Flange thickness: 9mm (front/back)

Gaskets: High sealing O-ring

Internal usable area (WxH): 88x86mm (3.5x3.4in)

Internal usable length (without accessories): 334mm (13.1in)

Internal usable length (with heater and/or power supply): 245mm (9.6in)

Unit weight: 6kg (13.3lb)

HOUSING'S WINDOW

Germanium window:

- Usable diameter: 55mm (2.1in)
- Thick: 2mm (0.07in)
- External treatment: scratch resistant (Hard Carbon Coating- DLC), non-reflective
- Internal treatment: non-reflective
- Spectral range: from 7.5μm up to 14μm
- Medium transmittance (from 7.5μm up to 11.5μm): 90%
- Medium transmittance (from 11.5μm up to 14μm): 77%

ELECTRICAL

Heater (Ton 15°C±3°C (59°F ±5°F), Toff 22°C±3°C (72°F±5°F))

- Power supply/Consumption: IN 12Vdc/24Vac, 20W max
- Power supply/Consumption: IN 120/230Vac, 40W max

Camera power supply

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

ENVIRONMENT

For installation indoors and outdoors

Operating temperature with heating: from -20°C (-4°F) up to +60°C (140°F)

CERTIFICATIONS

Electrical safety (CE): EN60065

Electromagnetic compatibility (CE): EN50130-4, EN61000-6-3

IP protection degree: EN60529 (IP66/IP67)

EAC certification

ACCESSORIES

ONXPS1B	Wide range power supply for camera IN 100-240Vac - OUT 12Vdc, 1.25A
ONXPS2B	Camera power supply IN 230Vac - OUT 24Vac, 400mA

RELATED PRODUCTS

NXPTH	Stainless steel P&T motor

BRACKETS AND ADAPTORS

NXWBS1	AISI 316L stainless steel wall bracket with joint

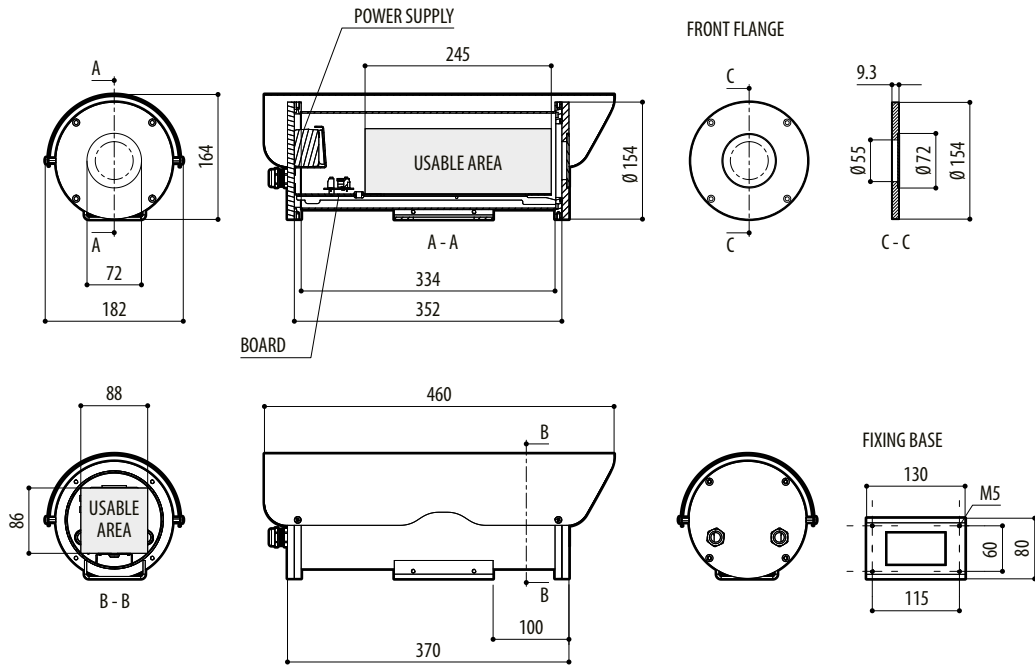## SPARE PARTS

ONXMMAN	Maintenance kit for NXM
ONTMFA	Front cover complete with germanium window

PACKAGE

Model Number	Weight	Dimensions (WxHxL)	Master carton
NTM1K1000	7.3kg (16.1in)	24.5x24.5x62cm	-

TECHNICAL DRAWINGS

The dimensions of the drawings are in millimetres.

POWER SUPPLY

FRONT FLANGE

245

A

164

A

72

182

A - A

USABLE AREA

Ø 154

334

352

BOARD

C

C

9.3

Ø 55

Ø 72

Ø 154

C - C

88

86

USABLE AREA

B - B

460

B

B

100

370

FIXING BASE

130

M5

60

80

115

B - B

NTM