

254 Series

Extra-Large size Stainless Steel Camera Housing



Installation manual



DESCRIPTION

The **254** series is entirely made in AISI316L stainless steel, for use in industrial and marine environments and in general where a corrosive atmosphere can cause a rapid deterioration of a standard aluminium-steel housing.

MODELS

254SH/24	Camera housing (L=600 mm) with sunshield and heater. UFW: 200 mm
254SH-L/24	Camera housing (L=700 mm) with sunshield and heater. UFW: 200 mm
254WW/24D	Camera housing (L=600 mm) with sunshield, heater and integrated wiper. UFW: 200 mm
254WW-L/24D	Camera housing (L=700 mm) with sunshield, heater and integrated wiper. UFW: 200 mm
254SHIR155/24	Camera housing (L=600 mm) with sunshield and heater. UFW: 155 mm
254SHIR155/230	Camera housing (L=600 mm) with sunshield and heater. UFW: 155 mm
254SHIR155-L/24	Camera housing (L=700 mm) with sunshield and heater. UFW: 155 mm
254SHIR155-L/230	Camera housing (L=700 mm) with sunshield and heater. UFW: 155 mm
254WWIR155/24D	Camera housing (L=600 mm) with sunshield, heater and integrated wiper. UFW: 155 mm
254WWIR155-L/24D	Camera housing (L=700 mm) with sunshield, heater and integrated wiper. UFW: 155 mm

UFW: Usable front window diameter

CERTIFICATIONS

Weatherproof standard: IP66/IP67 EN 61000-6-3:2007 and 50130-4:1995 + A1:1998 + A2:2003 (EMC – Electromagnetic Compatibility) 60950-1:2006 + A11:2009 (LVD – Safety)

INSTALLING THE CAMERA

Prior to installation and operation, read carefully all instructions the in this manual and heed all warnings.

Unpack this equipment and handle it carefully. If the package appears to be damaged, notify the shipper immediately.

Use the original packaging to transport the unit. Disconnect power supply before moving it. In case of returning the equipment, the original packaging must be used.

Make sure that the installation surface can support at least four times the weight of the unit in normal operating conditions. In case of excessive external stress (e.g. vibration, strong winds or impact), the equipment may need additional means of protection.

Proper stainless steel hardware should be carefully chosen to fasten the unit to the surfaces.

Use caution when lifting and assembling the unit. It is recommended that non-slip protective gloves be worn during installation. The unit could bear sharp edges.



Trying to manually force the wiper will result in damaging the device and will void the warranty.

To maintain the IP rating of the unit, adequate cable glands must be used. The unit must be tightly closed when operating.

For security reasons, do not install the unit in the proximity of water containers and never push objects or pour liquids into the unit. The unit can be safely used in damp environments or outdoors, as long as the connectors are properly sealed.

Video and data cables should not share the same conduit with supply voltage cables. Whenever EMC is an issue, adequately shielded cables must be used.

Open only the covers pointed out in this installation manual. Other covers should be open only by the manufacturer. Tightening/loosing the screws using automatic tools such as drill drivers may result in damaged threads.

This equipment has been designed to fit in harsh environments requiring little or no maintenance. Suggested inspection interval is 6 months, but extremely harsh environments may require more frequent inspection and maintenance checks. On each inspection check the O-ring seals and the eventual window wiper blade integrity. Replace them if necessary.

Check cables, electrical connections and mounting hardware for integrity and tightness. Replace or tighten any damaged/loose part.

Operating temperature: $-20^{\circ} +55^{\circ}$ C ($-4^{\circ} +131^{\circ}$ F).

Before performing any operation, turn off the power. The installation of the unit can be performed only by qualified personnel in accordance with the regulations in force. Do not connect the unit to a supply circuit unless the installation is completed.

Check carefully the supply voltage marked on the label. Incorrect Power Supply Voltage may damage the unit. Do not overload the terminal connection, as it may cause a fire or electrical shock hazard.

An all-pole mains switch with an opening distance between the contacts at least 3 mm in each pole must be incorporated in the electrical installation. The switch must be equipped with protection against the fault current towards the ground (differential) and the overcurrent (magnetothermal, maximum 15A). It must be very quickly recognizable and readily accessible. A suitable blow fuse must also be installed for protection.



For connection to the mains, use a multipolar cable having minimum 3x1,5 mm² (15 AWG). The main cable must be at least protected by an ordinary PVC sheath.

Fasten all the cables inside the housing with cables ties or other fixing means to avoid the electrical contact with surrounding parts in case that terminal blocks screw off.

Electrical connections (such as plugs and cords) must be protected from potential hazardous environmental factors (e.g. foot traffic, hitting objects).

Ensure that the unit case is properly earthed, connecting all the earth ground studs. Earth cable should be about 10mm longer than the other cables on the connector, in such way that it won't be accidentally disconnected if the cable is stretched or pulled.

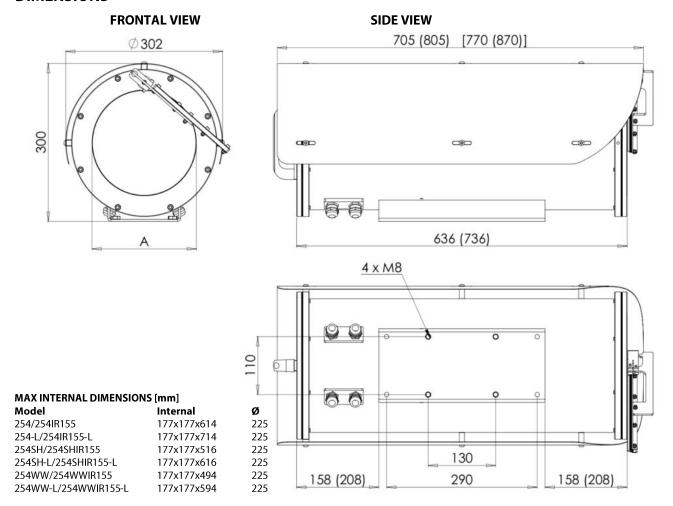
When leaving the unit unused for long periods, disconnect supply cables.



1. Open the housing Screws Unscrew the eight screws on the rear flange and remove it. Loose every screw before removing them. Be careful not to lose screws, washers and O-rings. 2. Prepare the housing to install the camera, sliding the upper rail away from the lower rail. Upper rail Lower rail 3. Install the camera Mount the camera on the internal rail using one of the $\frac{1}{4}$ " screws supplied and the plastic washer. Use the included spacers to adjust its height position. Slide the upper rail back on the lower rail into the housing Feed the cables through the cable glands on the bottom and perform electrical and video connections according to the instructions in the camera installation manual and, if necessary, in points 4 and 5. Check the proper position of the seal in its groove on the rear flange. Tighten the cable glands up till an 8 Nm torque ratio. Close the housing setting the six screws on the rear flange and tightening each one at time to the main body. Cable glands 0 4. Only on housings with heater system. Perform the input and output (to the camera) voltage connections using the PCB installed inside the housing near the rear flange. 5. Connect correct supply voltage between the GREEN wire (line) and the GREY wire (GND). Connecting the GREY wire (GND) to the BLUE wire, the wiper works until the BLUE wire is disconnected, then the wiper parks itself to its initial position. A normally open switch, connected between the GREY and BLUE wires, can be used for this operation. Wiper wires 6. Use the screws at the bottom of the housing to fasten the housing to its proper support. Screws



DIMENSIONS



Dimensions in brackets refer to models 254 with 700 mm tube length.

Available measures for "A"

A = 200 mm for 254, 254-L, 254SH, 254SH-L, 254WW and 254WW-L

A = 155 mm for 204IR155, 254IR155-L, 254SHIR155, 254SHIR155-L, 254WWIR155 and 254WWIR-L (germanium window)

 $Dimensions in millimetres-Tolerances \ according \ QMS-Design \ and \ product \ specifications \ subject \ to \ change \ without \ notice$



Preserve this manual as a reference for future needs.

 $Here \ you \ can \ find \ the \ always \ up\ -to\ -date \ pdf \ version \ of \ this \ document:$



Used electrical, electronic and stainless steel products should not be mixed with general waste.

For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/95/EC and 2002/96/EC.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products, please contact your local municipality or your waste disposal service. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

The manufacturer declines all liability for any consequence resulting from improper installation practices, tampering or improper uses of the product.

The descriptions and illustrations contained in this manual are not binding. The manufacturer reserves the right to make any alterations deemed appropriate for the technical, manufacturing and commercial improvement of the product, while leaving the essential product features unchanged, at any time and without undertaking to update the present publication.

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