



SELEX GALILEO

A Finmeccanica Company



FLIR 111 - HELICOPTER NAVIGATION FLIR FORWARD LOOKING INFRARED

The FLIR 111 is a state-of-the-art, high performance, compact, lightweight navigation Forward Looking InfraRed (FLIR) for utility and attack helicopters.

From a solid background in Electro-Optics (EO) and InfraRed (IR) applications and exploiting the new technologies, the FLIR 111 features:

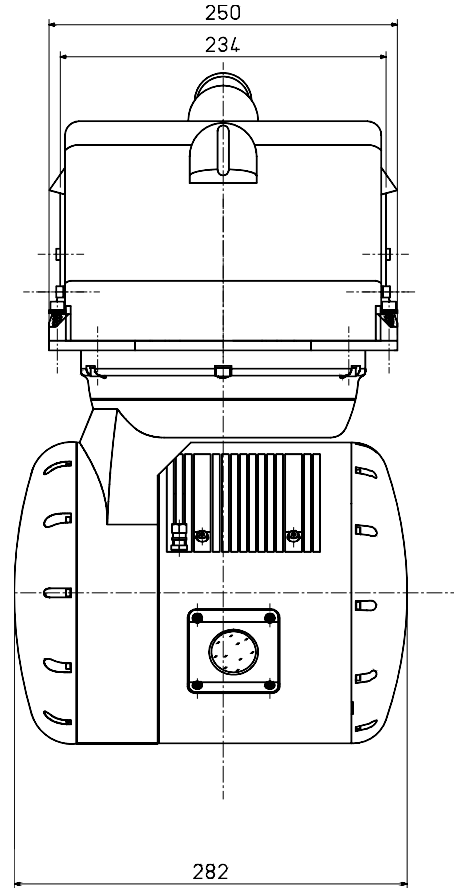
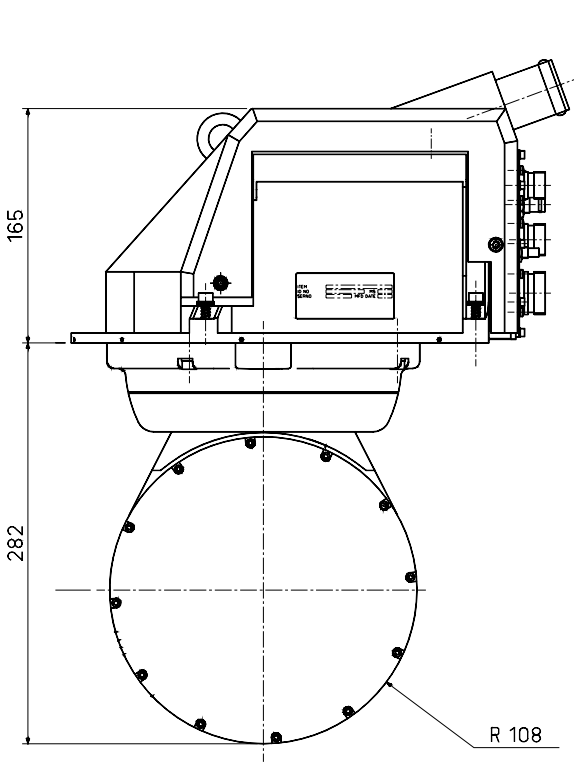
- High level of integration
- Low power consumption
- Simple mechanical interface
- Standard electrical interface
- Minimal number of interconnections.

The FLIR 111 makes use of a second generation thermal camera mounted onto a two-axis steering platform. The video image, generated by the thermal camera, presented on the pilot's Helmet Mounted Display (HMD), allows the crew to navigate a 'map of the earth' at night and in adverse weather conditions.

The FLIR 111 has been qualified for NH90/TTH and Tiger helicopters.

It is jointly produced by SELEX Galileo (Prime Contractor), Hensoldt Systemtechnik GmbH (Zeiss Group) and AEG-Infrarot-Module.

FLIR 111 - Helicopter Navigation FLIR Forward Looking InfraRed



TECHNICAL CHARACTERISTICS

Platform

Field of Regard	$\pm 130^\circ$ (azimuth) $+ 45^\circ \div - 70^\circ$ (elevation)
Angular Speed	140°/sec (azimuth) 150°/sec (elevation)
Angular Acceleration	1000°/sec ² (azimuth) 1140°/sec ² (elevation)
Position Resolution	0,2 m Rad.

Thermal Camera

Spectral Range	7.5 - 10.5 mm
Detector	288 x 4 TDI linear array
Field of View	30° x 40°
Cooling	Linear split stirling cooler
NETD	< 0.1 K°

System

Power Consumption	150 W typical
Weight	$\cong 20$ Kg
Dimensions	See image



FLIR 111 on a Tiger helicopter

For more information please email sales.marketing@selexgalileo.com

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