Optronics Systems

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:

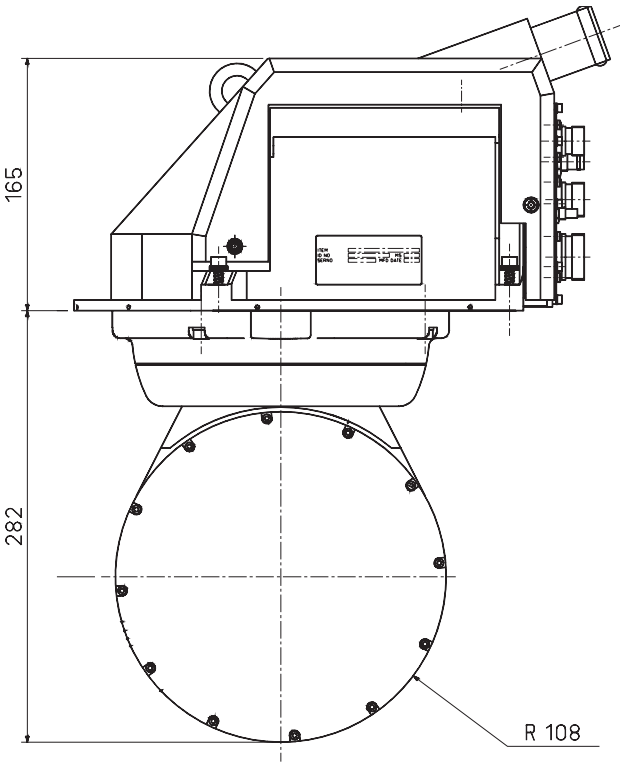
- High level of integration
- Low power consumption
- Simple mechanical interface
- Standard electrical interface
- Minimal number of interconnections.

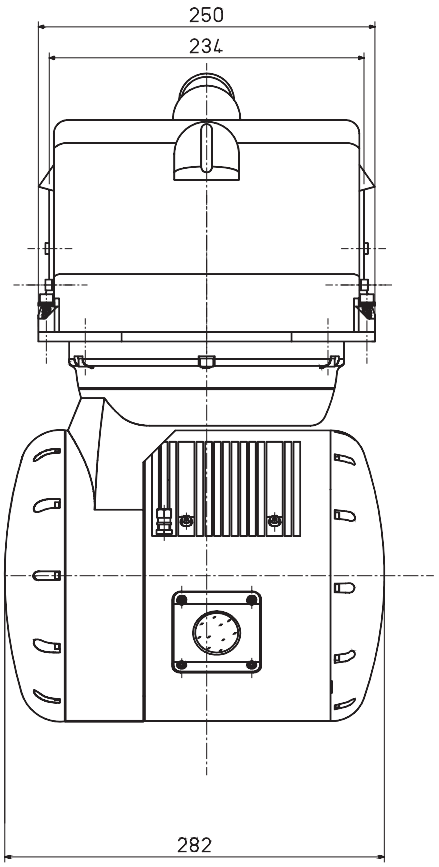
The FLIR 111 makes use of a second generation thermal camera mounted onto a two-axis steering platform.

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 the company (Prime Contractor), Hensoldt Systemtechnik GmbH (Zeiss Group) and AEGInfrarot-Module.

FLIR 111





TECHNICAL CHARACTERISTICS

PLATFORM	
Field of Regard	± 130° (azimuth)
	+ 45° to -70° (elevation)
Angular Speed	140°/sec (azimuth)
	150°/sec (elevation)
Angular Acceleration	1000°/sec2 (azimuth)
	1140°/sec2 (elevation)
Position Resolution	0.2m Rad.

THERMAL CAMERA	
Spectral Range	7.5 - 10.5µm
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	150W typical
Weight	- 20Kg
Dimensions	See image

FLIR 111 on a Tiger helicopter

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