



IC HOMING HEAD 175 mm

Features:

- Designed and manufactured for integration on ground & airborne carriers
- Ruggedized design suitable for various carriers dynamics
- Various kind of interfaces for missile & carrier integration (UART, CANBus)
- MIL standards qualified
- Various user defined kinds of HH calibration
- Full Customer support during HH integration



IR.HH-175mm infra red missile homing head is designed for use in night at low light conditions. IR.HH-175mm is capable of tracking targets up to 3km away.

IR.HH-175mm is a highly reliable system designed and built in SERBIA by TELEOPTIK-GYROSCOPES Electro-Opto Mechanics military facility.



TELEOPTIK-GYROSCOPES ELEKTRO-OPTO MECHANICS

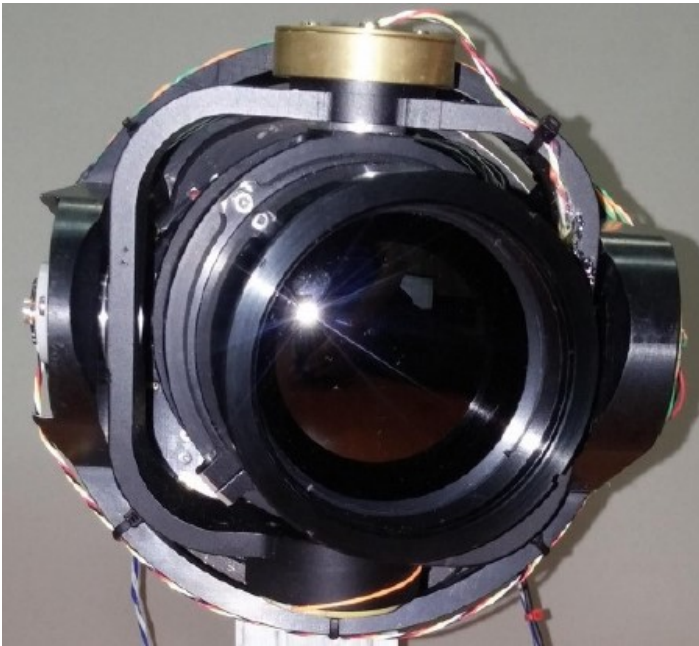
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IR HH -175mm is designed to be an ideal solution relative to the guided missile terminal phase video information, as applied on board of the ground-to-ground & airborne-to-ground smart weapons.

IR.HH -175mm can be, depending on the carrier missile and user needs, prepared/integrated in two system configuration modes LOBL (Lock On Before Launch) & LOAL (Lock On After Launch), both controlled by the ground or airborne HOTAS system.

IR.HH -175mm ruggedized IR sensor structure is surrounded and supported by digital electronics with control, stabilization and video processing capabilities.

IR.HH -175mm is provided with auxiliary system input to enable user integration into carrier missile system by using simulation from pre-launch acquisition to terminal tracking phase.

IR.HH -175mm is, in addition to ICD, provided with set of software routines enabling user the design of all carrier missile control modes, from the target acquisition to the flight path control throughout all flight phases.



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THERMAL IMAGER	
Detector type	Uncooled bolometer, Shutterless technology
Resolution	640x480 pix
Spectral range	8-14 μm
Pixel pitch	17 μm
Image refreshment rate	25 Hz
Optics: Ge.Lens	f1.75mm, f#1.1, FOV. 8.3° x 6.5° , athermalized
Detection	>3km (Target size: 4.8m x 1.8m x 2m)
Remote control	LUT, AGC, Scene
Digital zoom	2x, 4x
OBJECT TRACKING CAPABILITY	
Tracking algorithm	Contrast/Centroid, Correlation, Combined
Radial tracking speed	> 10°/s
Sampling rate	25Hz
STEM PERFORMANCE	
System stabilization	2-axis gimballed
Azimuth range	$\pm 30^\circ$
Elevation range	$\pm 30^\circ$
Angular velocities (both axis)	Up to 30 °/s
SYSTEM INTERFACES	
Video	Composite (PAL/NTSC)
Data and Remote control	RS-422, CANBus
ENVIRONMENTAL	
Applied standards	MIL-STD-810E, MIL-STD-461F
Operating temperature range	-25°C to +55°C
Storage temperature range	-30°C to +70°C
POWER REQUIREMENTS	
Voltage	18-32 VDC (per MIL-STD-704E)
Consumption	20 W (200 W peak)
PHYSICAL CHARACTERISTICS	
Diameter	175 mm
Length	340 mm
Weight	4.2 kg
PRODUCTION	
Production status	Full serial production



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