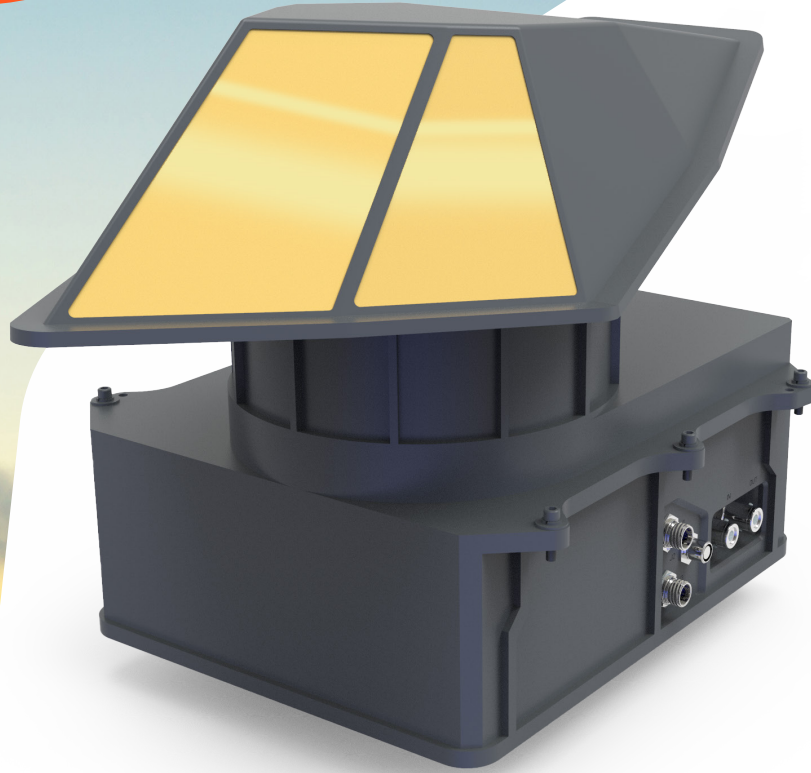




100, 200

INFRARED SEARCH AND TRACK SYSTEM

#ElectroOptics



INFRARED PASSIVE SEARCH, DETECTION AND TRACKING
SUPERIOR TARGET DETECTION RANGE WITH LWIR DETECTOR
SINGLE/MULTIPLE TARGET TRACKING
WIDE SCAN VOLUME
NARROW/WIDE FIELD OF VIEW (FOV)



aselsan



100, 200 INFRARED SEARCH AND TRACK SYSTEM

KARAT is the integrated Infrared Search and Track system designed and developed for Manned-Unmanned Fighter Aircraft, Fixed and Rotary Wing Aircraft and Unmanned Aerial Vehicles.

Applications

- Air to air search, detection and tracking
- High performance infrared imaging

Main Features

- Superior detection range for new generation aircrafts
- Faceted design for low Radar Cross Section (RCS)
- Adjustable search volume
- Automatic detection and tracking in searching area
- Single and multiple target tracking
- Slave to platform line of sight
- Narrow and wide field of view
- Angular position information for detected targets
- Passive distance estimation for detected targets
- Air-air missile guidance assist
- Digital video output
- Advanced image processing
- Sensitive stabilization

Technical Specifications

Wavelength : LWIR

Field of View

- Narrow : 4.0°x3.2° (HxV)
- Wide : 8.0°x6.4° (HxV)

Volume Scanning Duration : ≤ 30 Sec.

Communication/Video Interface : Fiber Ethernet

Power Interface

- MIL-STD-704F
- 28 VDC

Size

- Width : ≤ 490 mm
- Height : ≤ 510 mm
- Depth : ≤ 710mm

Weight

- KARAT Sensor Unit : ≤ 55 kg
- Optional Electronic Unit : ≤ 25 kg

The weight of the faceted window will depend on the final design.

Temperature

- MIL-STD-810G
- Operating : -40°C to +70°C
- Storage : -54°C to +71°C

Cooling Interface : Liquid Cooling



Specifications are subject to change without any notice. | All tolerances are within ±10%.