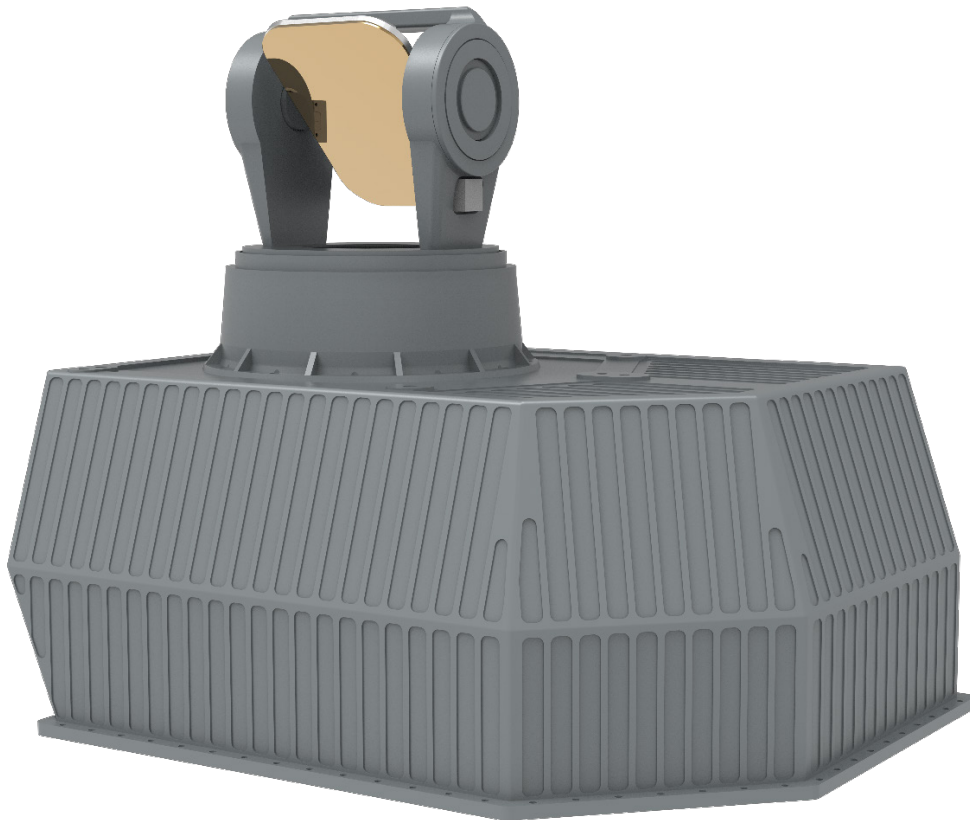
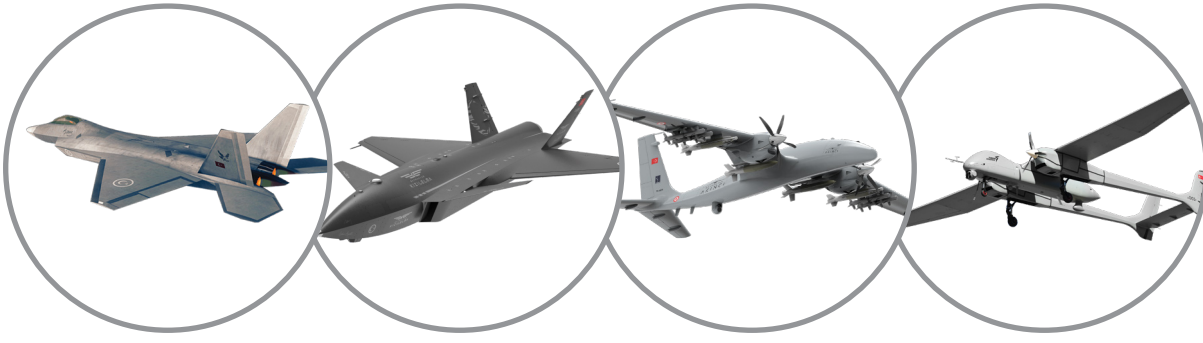


# KARAT

## INFRARED SEARCH AND TRACK SYSTEM

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)





# KARAT

## 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
- Digital Video Output
- Advanced Image Processing
- Sensitive Stabilization

### Technical Specifications

<b>Detector</b>	Resolution: 640x512, 15 $\mu$ m
<b>Wavelength</b>	LWIR
<b>Field of View</b>	Narrow: 4.0°x3.2° (HxV) Wide: 8.0°x6.4° (HxV)
<b>Volume Scanning Duration</b>	≤ 30 Sec.
<b>Communication/Video Interface</b>	Fiber Ethernet
<b>Power Interface</b>	MIL-STD-704F 28 VDC
<b>Size</b>	Width: ≤ 590 mm Height: ≤ 600 mm Depth: ≤ 540mm
<b>Weight</b>	≤ 50 kg
<b>Temperature</b>	MIL-STD-810G Operating: -46°C to +70°C Storage: -54°C to +71°C
<b>Cooling Interface</b>	Liquid Cooling