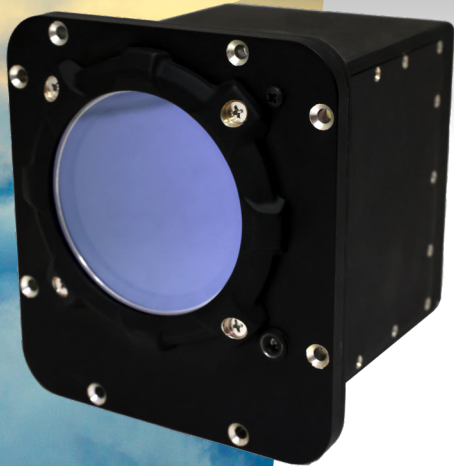




TURKISH UV MISSILE WARNING SYSTEM

#ElectronicWarfare



- DETECTION IN 'SOLAR BLIND' UV BAND
- HIGH PROBABILITY OF THREAT DECLARATION
- LOW FALSE ALARM RATE
- FAST RESPONSE TIME
- MULTIPLE THREAT DETECTION
- WIDE FIELD OF VIEW
- HIGH FRAME RATE
- HIGH DIRECTION OF ARRIVAL ACCURACY
- DIRCM COMPATIBLE
- EJECTION SPIKE DETECTION
- NEAR/FAR SHOT CLASSIFICATION
- PASSIVE RANGE ESTIMATION
- MISSILE CLASSIFICATION CAPABILITY
- COUNTERMEASURE INITIATION
- OPERATION AT LOW TEMPERATURES AT HIGH ALTITUDES
- NDAS COMPATIBLE



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TURKISH UV MISSILE WARNING SYSTEM

IRIS 120 is a new generation UV-based missile warning system that reports missile threats approaching to the air platforms with high directional accuracy and low false warning rate.

Its DIRCM-compliant architecture, wide field of view and increased frame rate enhances platform's survivability and meets advanced integration requirements.

IRIS 120 has the capability to detect, track and provide warning for all kinds of guided missile threats (MANPADS, air-to-air, etc.) that have UV signature.

Suitable for Air Platforms, IRIS 120 has been successfully tested in domestic and NATO live and static fire tests and has proven itself in the field.

Main Features

- Detection of the Exhaust Plume of the approaching Missiles in "Solar Blind" UV Band
- High Probability of Threat Declaration
- Low False Alarm Rate
- Fast Response Time (Enough for Countermeasure Initiation)
- Wide Field of View
- High Frame Rate
- High Direction of Arrival Accuracy
- DIRCM Compatible
- Ejection Spike Detection
- Near/Far Shot Classification
- Passive Range Estimation
- Missile Classification (Surface to Air, Air to Air)
- Initiating Countermeasures (Chaff/Flare Dispensers)
- Compatibility with STANAG 4781 NATO Defensive Aids System (NDAS) Open Architecture
- Threat Prioritization
- Hostile Fire Indication (HFI)
- Flare Detection and Notification
- High Angular Resolution
- Providing Raw Sensor Data

- Cabling Compatibility with MWS-TU / IRIS 100 and MILDS AN/AAR 60, Installation Friendliness and Low Power Consumption Enables IRIS 120 to provide Ease of Use and Integration Convenience.
- IRIS 120 is mechanically replaceable with MWS-TU / IRIS 100 and MILDS AN/AAR-60 Sensor Units.
- IRIS 120 provides Ease of Software Integration by Directly Supporting MWS-TU / IRIS 100 and MILDS AN/AAR-60 Communication Interfaces.

Technical Specifications

- Field of View
 - 4 Sensor : $> \pm 50^\circ$ Elevation x 360° Azimuth
 - 6 Sensors : Full Spherical
- Angular Resolution : DIRCM Compatible
- Simultaneous Declaration of Maximum Threats : 8
- Power Consumption : < 14 W (per sensor)
- MTBF (35°C) : > 9600 Flight Hour
- Dimensions :
 - Width : 130 mm
 - Height : 143 mm
 - Depth : 153 mm
- Weight : $< 2,3$ kg
- Temperature
 - Operating : $-55^\circ\text{C} / +71^\circ\text{C}$
 - Storage : $-55^\circ\text{C} / +85^\circ\text{C}$
- Altitude : 50.000 ft
- Cooling Requirements : None

Areas of Use

- IRIS 120 can be integrated into T129 ATAK, S-70, CH-47, AS-532, AH-1W, Mi-17, UH-1H etc. rotary wing and CN-235, C-130 etc. fixed wing platforms.

