



ARTILLERIE INRICHTINGEN  
ARMAMENTS BV

SPECTARIS SEEKER SYSTEMS  
MISSILE SEEKER SYSTEMS

# SPECTARIS

## ARH-AA

ACTIVE RF HOMING  
AIR-TO-AIR SEEKER

Active RF seeker subsystem for beyond-visual-range air-to-air missiles, combining long-range target acquisition, agile antenna options and ECCM capability.

ACTIVE RF

BVR ACQUISITION

ECCM CAPABILITY

### ANTENNA OPTIONS

Gimballed or electronically scanned

### AIR PLATFORM READY

Fighters, stealth aircraft and UAVs

SPECTARIS ARH-AA | AIA-SKR-ARHAA-MK1

### ACTIVE RF SEEKER FOR BVR AIR-TO-AIR MISSILES

Artilerie Inrichtingen Armaments BV presents SPECTARIS ARH-AA, an active RF seeker subsystem family developed for beyond-visual-range air-to-air missile programmes and long-range target acquisition.

The seeker supports high-agility operation in demanding environments up to the hypersonic regime, with gimballed or electronically scanned array antenna architecture, ECCM capability and performance against small and agile targets.

## Active RF

AUTONOMOUS TERMINAL SENSING

## Long range

PUBLISHED ACQUISITION CLASS

## ECCM

ELECTRONIC PROTECTION CAPABILITY

● Artilerie Inrichtingen Armaments BV - Licensed manufacturing programme in the Netherlands



# OPERATIONAL CAPABILITY & SYSTEM ARCHITECTURE

SPECTARIS ARH-AA | ACTIVE RF SEEKER FAMILY FOR BEYOND-VISUAL-RANGE AIR-TO-AIR MISSILES

## SEEKER CAPABILITIES

- Active RF seeker architecture
- Long-range target acquisition
- High-agility operation in demanding environments
- Environmental capability up to the hypersonic flight regime
- High-agility gimballed antenna option
- Electronically scanned array antenna option
- Electronic counter-countermeasures (ECCM) capability
- Performance against small and agile targets
- Integration with fighters, stealth platforms and fifth-generation UAVs
- Beyond-visual-range air-to-air missile application

## PUBLISHED SYSTEM PROFILE

### ACTIVE RF SEEKER ARCHITECTURE

**RF front end; antenna assembly; signal processing; tracking electronics; guidance interfaces; environmental structure**

#### MODE

**Active RF**

#### ACQUISITION

**Long range**

#### PROTECTION

**ECCM**

### INTERFACE / COMPATIBILITY

**missile guidance/autopilot, power, databus and radome interfaces; qualified aircraft carriage and launch programme**

### PHYSICAL

**Active RF seeker; gimballed or electronically scanned array antenna architecture according to programme requirements**

## AIR-TO-AIR SEEKER MISSION PROFILE

Search, acquire and track air targets for autonomous terminal guidance in beyond-visual-range air-to-air missile applications.

ACTIVE RF

BVR

GIMBALLED ARRAY

ESA OPTION

HIGH AGILITY

ECCM

SMALL TARGETS

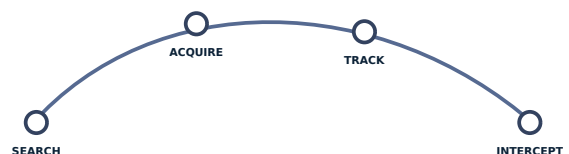
AIR PLATFORMS

## SEEKER, MISSILE & PLATFORM INTEGRATION

SPECTARIS ARH-AA combines an active RF front end, a programme-selected high-agility gimballed antenna or electronically scanned array antenna, signal processing and target-tracking electronics with missile guidance interfaces. The seeker is intended for qualified integration with beyond-visual-range air-to-air missiles and airborne launch platforms, including fighters, stealth aircraft and fifth-generation UAVs. Final geometry, interfaces, spectrum parameters and performance remain programme-specific and subject to qualification.



AEROSPACE GREY ACTIVE RF SEEKER CONFIGURATION



ACTIVE RF TERMINAL-GUIDANCE PROFILE

Published profile: active RF; long-range acquisition; ECCM; gimballed or electronically scanned antenna options.

Export/end-user, spectrum, airworthiness, missile-safety, platform and publication approvals apply. Tolerance +/-10%.