



ARTILLERIE INRICHTINGEN
ARMAMENTS BV

CAELOR AIR DEFENCE SYSTEMS
AIR DEFENCE SYSTEMS

CAELOR FC-3D

MOBILE AIR-DEFENCE FIRE-CONTROL SYSTEM

Integrated 3D search, radar and electro-optical tracking, threat evaluation and weapon assignment for gun and missile air-defence systems.

3D SEARCH RADAR

RADAR + EO

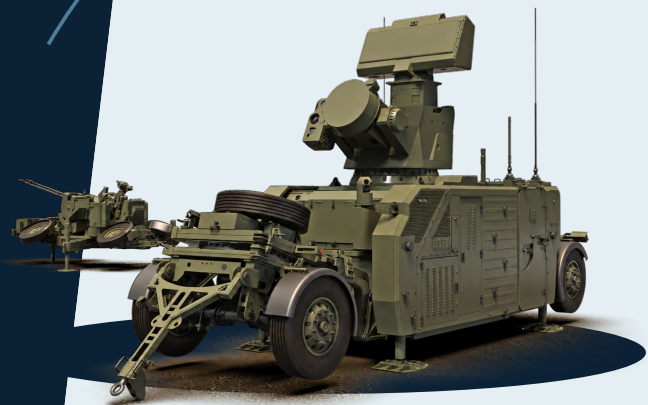
GUN + MISSILE C2

INTEGRATED SENSOR CHAIN

Search, track and identify

WEAPON ASSIGNMENT

Gun and missile fire control



CAELOR FC-3D | AIA-ADS-FC3D-MK1

MOBILE AIR-DEFENCE FIRE CONTROL

Artillerie Inrichtingen Armaments BV presents CAELOR FC-3D, a mobile air and missile defence fire-control system that detects and tracks threats using integrated radar and electro-optical sensors.

The tactical-olive system generates a local air picture, evaluates threats, assigns suitable weapons and controls connected very-short-range and short-range gun and missile air-defence systems.

3D search

TARGET ACQUISITION AND TRACKING

Radar + EO

INTEGRATED TRACKING PLATFORM

Gun + missile

AIR-DEFENCE FIRE CONTROL

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



OPERATIONAL CAPABILITY & SYSTEM DATA

CAELOR FC-3D | MOBILE 3D-RADAR AIR AND MISSILE DEFENCE FIRE-CONTROL SYSTEM

SYSTEM CAPABILITIES

- Target acquisition and tracking with 3D search radar
- Automatic target tracking with integrated tracking radar
- Electro-optical sensing within the tracking platform
- Generation of a local air picture
- Automated threat evaluation
- Weapon assignment across connected effectors
- Fire control of gun-based air-defence systems
- Fire control of missile-launching air-defence systems
- Support for very-short-range and short-range defence layers
- Coordinated operation with higher-echelon command units

TECHNICAL DATA

FIRE-CONTROL ARCHITECTURE

3D search radar; tracking radar; electro-optical sensors; local air picture; threat evaluation; weapon assignment; C2 interfaces

SEARCH

3D radar

TRACKING

Radar + EO

CONTROL

Gun + missile

INTERFACE / COMPATIBILITY

very-short-range and short-range gun and missile air-defence systems; higher-echelon command-and-control units

PHYSICAL

Mobile trailer-mounted fire-control system with 3D search radar, tracking radar and electro-optical sensors

FIRE-CONTROL PROFILE

Integrated detection, tracking, threat evaluation and weapon assignment from a mobile sensor and fire-control node.

3D SEARCH

RADAR TRACKING

ELECTRO-OPTICAL

LOCAL AIR PICTURE

THREAT EVALUATION

WEAPON ASSIGNMENT

GUN CONTROL

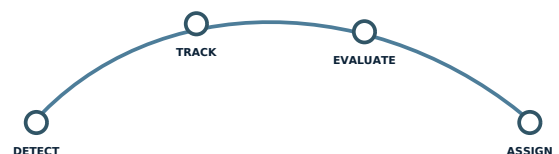
MISSILE CONTROL

SENSOR, C2 & WEAPON INTEGRATION

CAELOR FC-3D combines a mobile 3D search radar with integrated radar and electro-optical tracking for UAVs, helicopters, fixed-wing aircraft, air-to-ground missiles and cruise missiles. The system generates a local air picture, evaluates threats, assigns weapons and controls connected gun-based and missile-launching air-defence systems. Integration remains subject to sensor coverage, communications, data-interface, electromagnetic, cybersecurity, identification, rules-of-engagement and system-level qualification.



TACTICAL OLIVE MOBILE FCS CONFIGURATION



SENSOR-TO-WEAPON CONTROL CHAIN

Mobile 3D search, radar/EO tracking, threat evaluation and gun/missile weapon assignment.

Export/end-user and airspace approvals apply. Specifications subject to change; tolerance $\pm 10\%$.