

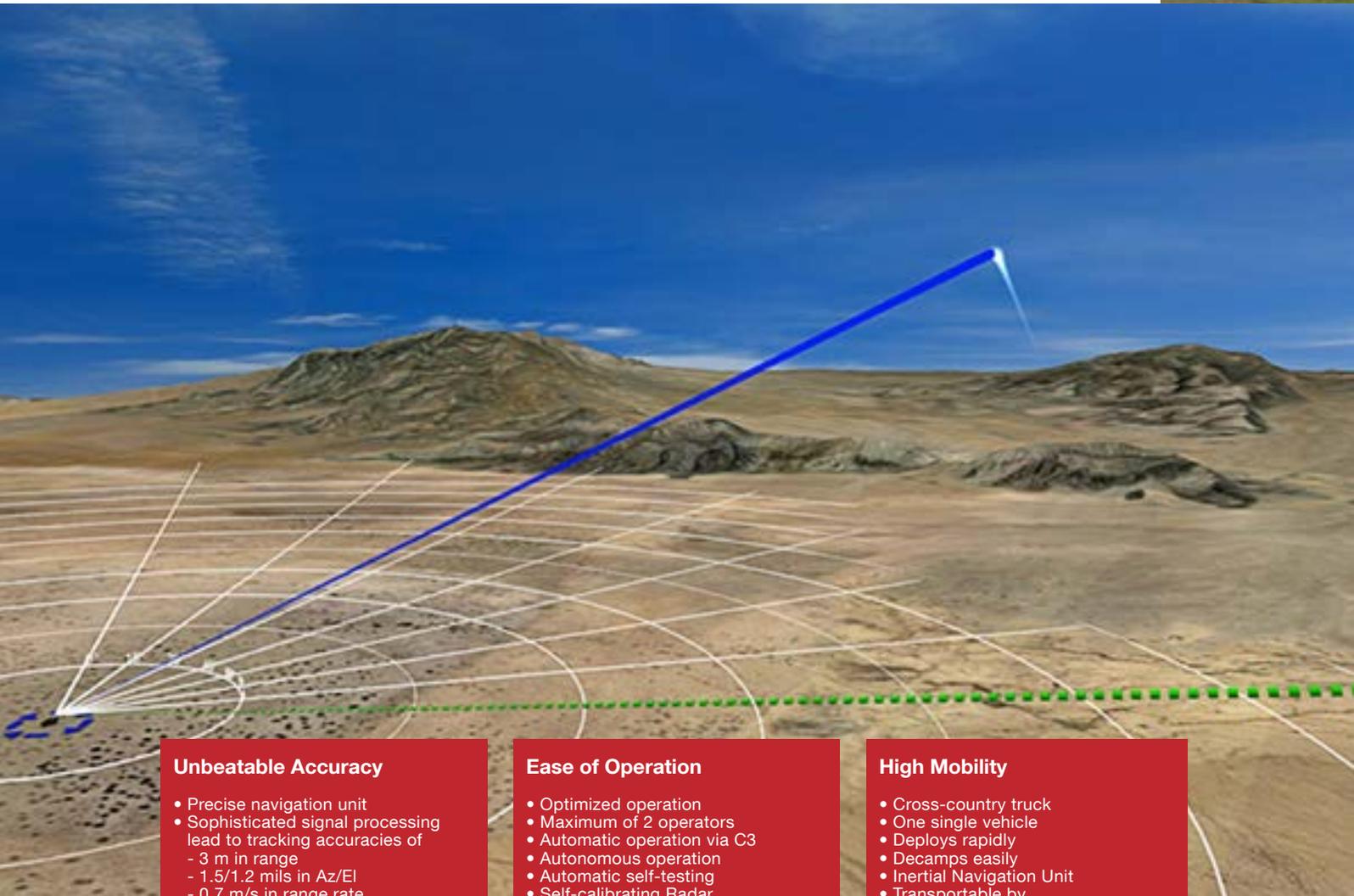
# COBRA

Counter Battery Radar

*We know  
where they are.*



# COBRA – *We know where they are.*



## Unbeatable Accuracy

- Precise navigation unit
- Sophisticated signal processing lead to tracking accuracies of
  - 3 m in range
  - 1.5/1.2 mils in Az/EI
  - 0.7 m/s in range rate
- Location accuracies within a few meters
- Reported appr. 12 sec after the launch of the firing

## Ease of Operation

- Optimized operation
- Maximum of 2 operators
- Automatic operation via C3
- Autonomous operation
- Automatic self-testing
- Self-calibrating Radar

## High Mobility

- Cross-country truck
- One single vehicle
- Deploys rapidly
- Decamps easily
- Inertial Navigation Unit
- Transportable by air, road, rail and ship

COBRA is the world's most advanced weapon location system, comprising a high performance radar, advanced processing and an integrated, flexible Command, Control and Communication system (C3). COBRA is a singularly effective force on the battlefield, performing the following basic tactical missions rapidly and accurately:

- Location of rocket launchers, artillery batteries, mortars, shell impact points and jamming direction
- Registration and adjustment of friendly firings to improve accuracy of own artillery
- Capability to provide precise intercept points along the intervening trajectories to control and guide firing systems

COBRA supports artillery in a wide range of battlefield scenarios.

Within a peace keeping role it supervises a cease fire, for peace making roles it can help to restore a cease fire and act to uphold it. During an intervention in defence of a nation it supports peace keeping measures where return fire is required and a large spread of forces occurs.

Last but not least COBRA plays its role as a force multiplier for defending artillery during major conflicts.

The COBRA system is mounted on a cross-country mobile vehicle with a high-precision navigation system.

COBRA typically encamps and decamps in less than 5 minutes. The detection coverage of the Counter Battery Radar is 90° out to more than 40 kilometers, which corresponds to 1200 square kilometers.



### High Reliability

- Use of components with proven reliability
- Fault tolerant system architecture
- Self calibrating system
- Automatic performance monitoring
- Leading to high availability

### Survivability

- High mobility
- Frequency agility
- ECCM Modes
- Time-limited radiation possible
- Shell fragment and NBC protected cabin
- NEMP and lightning protection

### Low Life Cycle Costs

- Optimized system design based on early LCC Analysis
- High Mean Time Between Failures (MTBF)
- Low Mean Time To Repair (MTTR)
- Built In Test Equipment (BITE) and modular design facilitate maintenance

The operator can select range modes between 20, 40 and 100 Kilometers.

COBRA rapidly and precisely locates enemy weapon positions through the detection of targets with very small radar cross-sections. Management of multiple targets from high density attacks is achieved by powerful data handling.

Sophisticated digital processing overcomes unwanted interferences (ground, weather, birds and aircraft).



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**Company Profile**

The EURO-ART consortium was formed in 1989 by the predecessor companies of Thales Air Systems SA, France, Thales UK Ltd, EADS, Germany and Lockheed Martin, USA, to undertake development and production of the COBRA System for the French, UK and German Governments which has resulted in the delivery of 29 COBRA Systems.

In August 2007, EURO-ART International EWIV ("EURO-ART International"), an European Economic Interest Group based in Germany, was established between Thales Air Systems SA and EADS, as the enterprise responsible for all future marketing and sales of the COBRA System to new customers.