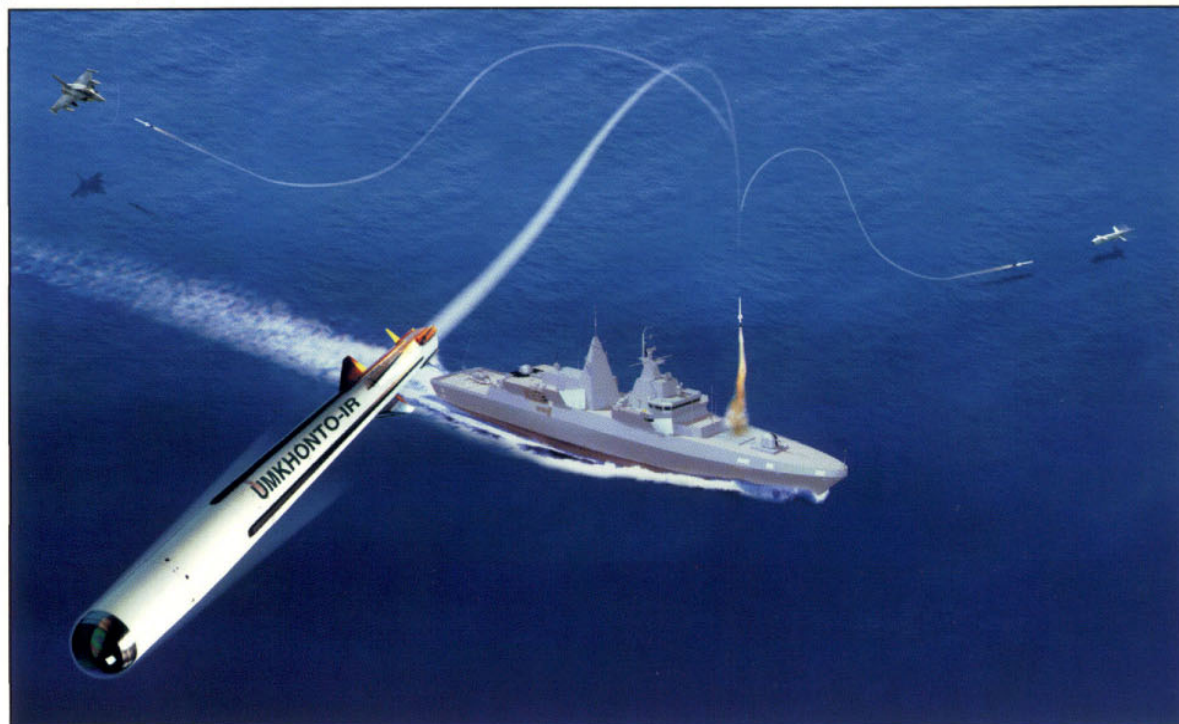


# UMKHONTO-IR

## Surface-to-air Missile System

### System Operation



- Target is acquired and tracked by 3-D target acquisition radar
- Missile is launched and flies to a lock-on point, using an on-board inertial navigation subsystem
- IR seeker locks on and missile intercepts target under seeker control
- Continuous updating of target course from surface radar during missile flight, via a telecommand link, to enable engagement of manoeuvring targets.

### System Specifications

#### Physical Characteristics

- Missile length : 3 320 mm
- Missile diameter : 180 mm
- Wingspan : 500 mm
- Launch mass : 130 kg
- Canister length : 3 800 mm
- Canister maximum diameter : 650 mm

#### Performance Characteristics

- Range : 12 000 m
- Ceiling : 10 000 m
- Maximum Mach No. : 2.5
- Time of flight to 9 km : 16 s

