

MANTIS

MANTIS - RECCE

Reconnaissance

- Mobile reconnaissance and observation system for military and civilian missions
- High resolution imagery, target acquisition and transmission in day, night and adverse weather conditions
- High accuracy target location and navigation
- Real time data communication to C4I system
- Short and long range S&R



Specifications:

System Components:

Mast-up to 4m
Day Camera
Night Camera
LRF
GPS
RF Transmitter
Command & Control-C4I

System Capabilities:

Range-4-6km
Operating angles: Pan 360°
Tilt: -60°- +30°
Operating temp: -20°C- +50°C
Auto Focus
Image stabilization
Weight-less than 2.3kg
24/12 v DC

MANTIS

High Mobility Fast Attack Vehicle



Surveillance and Reconnaissance



Anti Tank Guided Missile Launcher and SPIKE C4I



MANTIS

High mobility Fast Attack Vehicle



MANTIS-ATGM

- Fire & Forget, Fire Observe & Update capabilities enable operational flexibility
- Specially suited to urban areas
- Equipped with a launcher carrying two SPIKE missiles in ready-to-launch position and four additional SPIKE missiles on vehicle
- Attack capabilities against in-depth, high value point targets



Spike LR - Main Features and Advantages

- CCD and IIR sensors allow day/night and adverse weather engagement of stationary and moving targets
- Tandem warhead, lofted trajectory and high accuracy guarantee high kill probability
- Effective range - 4000m
- Weight - missile in canister - 13kg
- Change targets after launch
- Attack concealed targets
- Achieve extended range and pinpoint accuracy
- Minimize collateral damage
- Abort mission after launch

SPIKE C⁴I

The SPIKE C⁴I system provides a common language that enables simple communication between different forces, which in turn enables high target kill ratio, commander battlefield control, target designation and intelligence data distribution.

The SPIKE C⁴I shortens the sensor-to-shooter cycle between reconnaissance and assault forces.

RAFAEL's SPIKE C⁴I is an interactive, field proven, easy-to-use system for:

- Mission and path planning
- Navigation
- Battle management support
- Situation awareness display
- Fire management
- Target acquisition and allocation
- Training
- Mission review

SPIKE C⁴I can be used to manage a variety of sensors and platforms including:

- Anti-tank weapons
- UAVs and light airplane acoustic sensors
- Observation vehicles
- Tactile communication networks