



SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

MISSION EQUIPMENT

ROTARY WING



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AGENDA

- **Mission Equipment Portfolio**
- **On-Going Programs**
- **Technologies of Interest**
- **Competitive Acquisitions**

MISSION EQUIPMENT PORTFOLIO

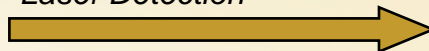
Requirements

Survivability

**Detect and Defeat
Multi-Spectral Threats**

Technology Areas

*RF & IR Sensors and Countermeasures
Laser Detection*



*Acoustic Detection
Ballistic Protection
Signature Reduction*

End State

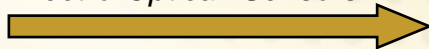


- *Integrated Advanced ASE*
- *Full Spectrum Signature Management*
- *Increased Lethality Engagement Sys*

Penetration / Fires

**Navigation
Terrain Avoidance
Targeting**

Electro-Optical Sensors



*Terrain Following Radar
Sensor Fusion
Synthetic Vision*

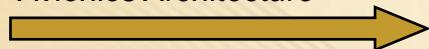


- *Operations Unconstrained By Environment*
- *Fully Fused Sensors*
- *Advanced /Integrated Nav System*

C4 / Mission Command

**Situational Awareness
Digital Connectivity
Data Management**

Avionics Architecture



*Real Time Video/Data
Communications*



- *Multi ship SA Sharing*
- *OTH Info Sharing*
- *Airframe as hot Spot*
- *Cloud Based Information*

Light Weight, Lower Cost of Ownership

MISSION EQUIPMENT ACTIVITIES

Aircraft Survivability Equipment:

- Hostile Fire Indicator DT/OT
- Lightweight IR Countermeasure Development
- SIRFC Enhancements
- Flare Improvements

Sensors and Weapons:

- Degraded Visual Environment Development
- FLIR Upgrades

Avionics:

- Secure Real Time Video Integration
- Tactical Airborne Network Integration
- Mission Processor Upgrades

Sustainment:

- Sustain operational availability
- Control sustainment costs of mission equipment

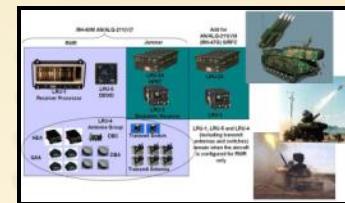
Direct Fire Threat
(Detect and Locate)



Radar Threat
(Receive and Jam)



EO/IR Missile Threat
(Detect and Decoy/Jam)



SIRFC



Degraded Visual Environment



Ground Force
Software
Compatible



GOTS/COTS
Material
Solution

Moving map with other
Friendly icons shown



Live video with
location of
Video shown
on imagery

TECHNOLOGY INTERESTS

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- **Conformal multiband and wideband antennas**
- **Lighter weight cabin sound proofing/thermal protection**
- **Aircraft Protection Against RPGs**
- **Transparent, curved, light, ballistic materiel**
- **Coatings with low IR/RF/visual signatures**
- **Engine IR signature suppressor technology**

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COMPETITIVE ACQUISITIONS

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- **Planned future competitive acquisitions**
 - A/MH-6 light weight Infrared Countermeasures
 - Airborne Mission Networking enhancing capabilities

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QUESTIONS