M-ACE
Mobile, Acquisition, Cueing and Effector System

A MODULAR, RELIABLE, HIGHLY EFFECTIVE C-UAS SYSTEM

The Mobile – Acquisition, Cueing and Effector (M-ACE) System, is a modular, adaptable C-UAS solution.

ARCHITECTURE

M-ACE utilizes three dimensional (3D) radar, Radio Frequency (RF) sensors, electro-optical/infrared (EO/IR) cameras, global position systems (GPS), and secure radio for transmitting data over command and control (C2) networks.

All sensors and effectors are high technology readiness level (TRL) as currently implemented, many having been fielded in operational environments around the world. Systems can be swapped out or adapted to meet any end-user's requirements.

COMMAND & CONTROL

M-ACE uses M-ACE C2, an NG-developed open-architecture software system that supports all major industry protocols, integrates with hundreds of sensors and cameras, and has exceptional reliability.

M-ACE C2 is exportable, and has a software development kit (SDK) available so that partners could assist in managing the system and its integrated sensors/effectors. M-ACE C2 leverages advanced man-in- loop autonomy and Artifical Intelligence & Machine Learning (AI/ML) plug-ins to compress the decision cycle, identify targets, classify threats, and cue effectors.

CUSTOMIZEABLE

M-ACE can fit on a variety of commercial and military vehicle platforms, including all standard 8' truck beds. The M-ACE architecture can be easily adapted into different configurations based on each customers mission requirements.

UAS DEFEAT

Using its advanced C2, M-ACE can cue a variety of kinetic, non-kinetic, and directed energy effectors.

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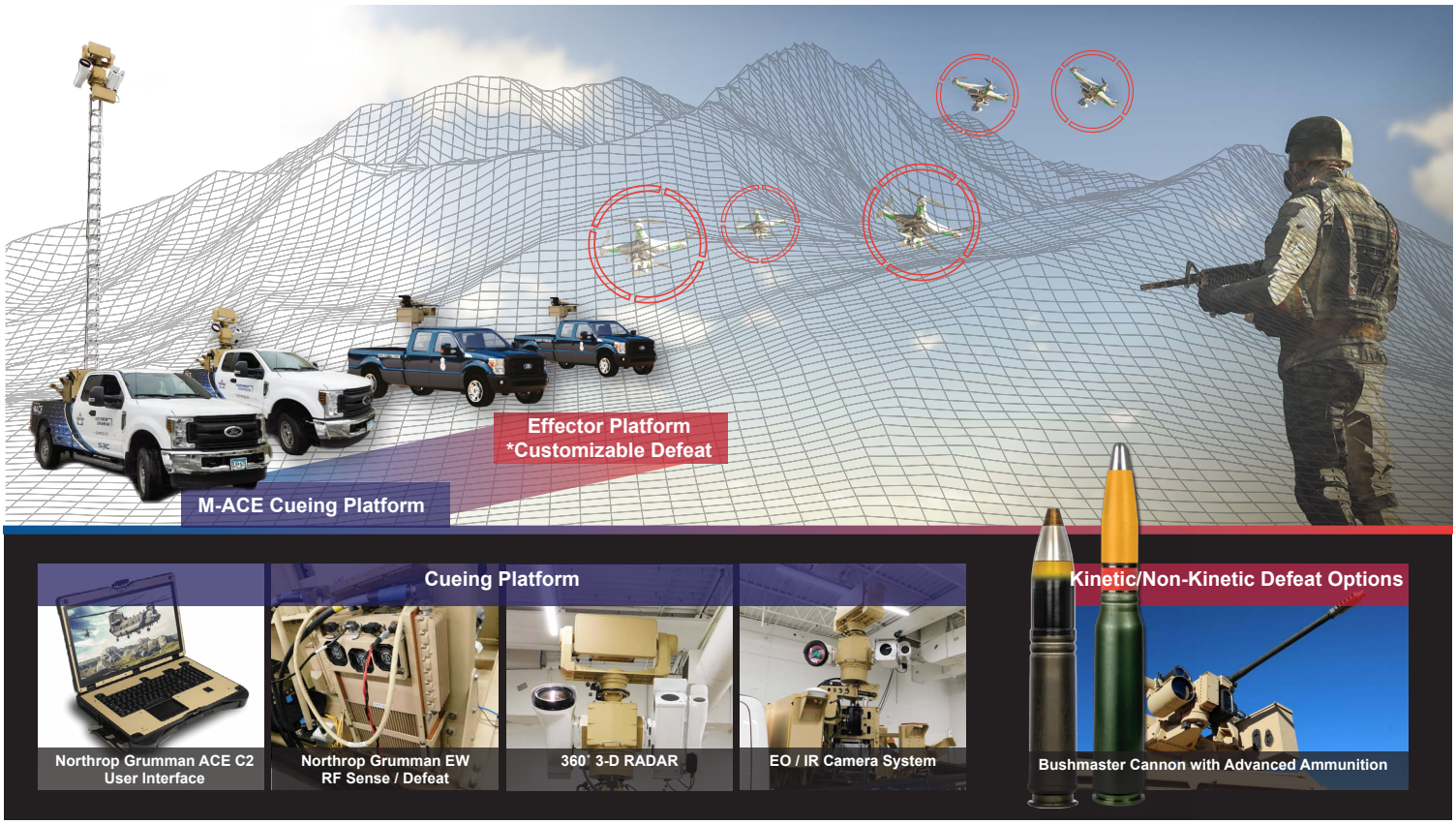

SYSTEM HIGHLIGHTS

- Reliable, exportable M-ACE C2 foundation
- Modular system architecture
- Rapid emplacement anywhere a host vehicle can travel
- Rapid semi-permanent placement on solid ground with sufficient power
- Self-stabilizing tower design
- Simple, rapid effector cueing
- Executes the full C-UAS kill chain, with options for both active and passive operation
- Man-in-the-loop capability
- Integrated AI/ML/DL capabilities

Base Platform	Standard Truck with 8' Cargo Bed
Size	62"W x 78"L x 57"H
Tower Height (Ground to Sensor)	< 30ft
Tower Payload Capacity	500 lbs
Deployment Time	< 2 mins
Stabilization	No Guy-wires
Power Source	Shore Power / Generator Hydrogen Fuel Cell Vehicle Alternator
Features	Rapid Relocation Operable from Vehicle
Weight	< 2,000lbs

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