GHOST MANTIS® MULTI-FUNCTION EW SYSTEM

A low-cost, modular, next-generation electronic warfare payload that enables advanced concepts of operations and tactics for collaborative combat aircraft.

SRC combines decades of experience in threat analysis, radar, and electronic warfare systems to RF sensors, high performance mission computing, and software skills. Our innovative approach balances performance, affordability, and manufacturability – ensuring warfighters have the right capability at the right time.

SENSE & ID

The *Ghost Mantis* multi-function EW system uses a modular RF architecture, software-defined functionality, and collaborative mission processing to discreetly sense, locate, identifiy and shares knowledge of the environment with teammates. It can see beyond the traditional observables using AI/ML algorithms to understand threat behaviors and intent.

DECEIVE

The *Ghost Mantis* payload adapts to its environment, mimicking its surroundings to deny, degrade, disrupt, and deceive adversaries. It creates representative RF signatures for virtually any friendly, neutral, or adversary system by directly interpreting validated threat intelligence models.
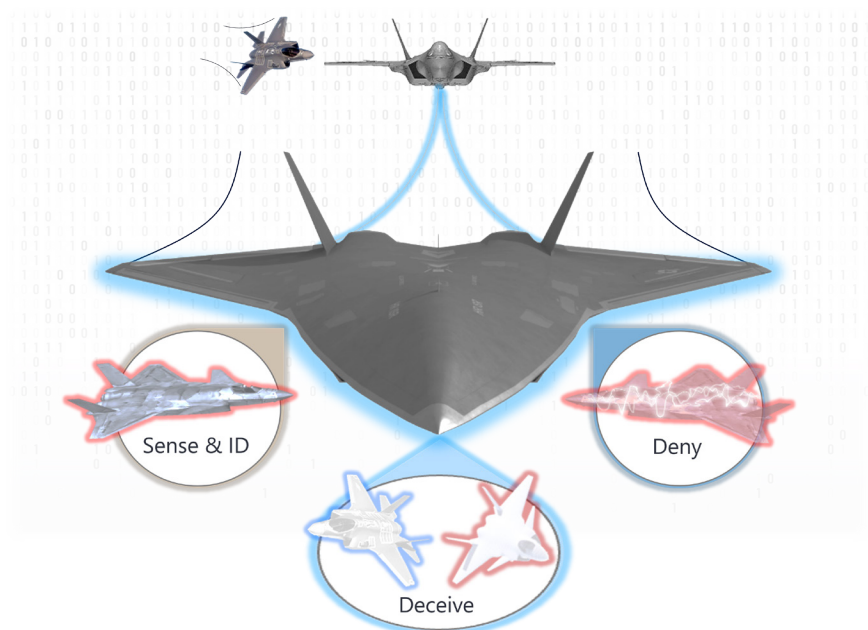
DENY

Striking with precision, the *Ghost Mantis* EW system delivers advanced electronic effects to disable, degrade, and deny adversary use of the RF environment, enhancing the range, lethality, and survivability of collaborative combat aircraft and other aircraft operating in a teaming environment.

CCA PAYLOAD

The *Ghost Mantis* payload leverages Sensors Open Systems Architecture and Open Mission Systems (OMS) compliant software coupled with the direct integration of authoritative threat intelligence data. This combination enables an affordable, low-SWaP-C, flexible EW payload for collaborative combat aircraft.

GHOST**MANTIS**

THE GHOST MANTIS MULTI-FUNCTION RF SYSTEM PERFORMS MULTI-DOMAIN OPERATIONS TO DEGRADE, DISABLE, AND DENY ADVERSARY CAPABILITIES

Sense & ID

Deny

Deceive

SRC

GHOST MANTIS® MULTI-FUNCTION EW SYSTEM

The *Ghost Mantis* system's advanced electronic attack, radar emulation and sensing capabilities enable new concepts of operations and tactics limited only by the imagination of the mission planners and battle managers.

CONFIGURABLE

By design, the *Ghost Mantis* multi-function EW system is modular and reconfigurable to align with OMS and other government reference architectures. This provides flexibility to configure the payload to meet a variety of mission requirements. For example, it can be customized using commercial off-the-shelf and custom plug-in modules. Software-defined skills enable a wide variety of transmit and receive modes, frequency bands, number of channels, processing functions, and data recording needs without modifying the payload's chassis, core processing backplane, or antenna.

The *Ghost Mantis* system adapts to new technologies and future threats. It is extendable beyond the EW domain with alternate RF apertures, antenna units or EO/IR sensors installed on common digital backend hardware and software architecture. This facilitates upgrades to the system as the threat environment, technology, and operational needs evolve.

FEATURES

➢ Delivers a superior combination of performance and value

➢ Designed to balance performance and cost to enable emerging CCA CONOPs

➢ Operational in the most highly contested, congested, and denied environments

➢ Highly adaptable to new technologies and future threats

➢ Configurable to help meet the requirements of any mission

➢ Modular architecture enables rapid performance and capability upgrades at the speed necessary to support the modern battlefield

800-724-0451 • inquiries@srcinc.com • www.srcinc.com

Scan QR code to download an electronic copy.

SRC