



[SIGNAL]



OCTOPUS-100

BOPC 3.40e
NOTE 2.88-
UNREET 0.8%

TELEMETRY DATA

DEFS 2.04

TELEMETRY DATA

DEFS 5.184

OCTOPUS-100. A NEW ERA OF AIR DEFENSE.

A game-changing AI-powered anti-aircraft drone.

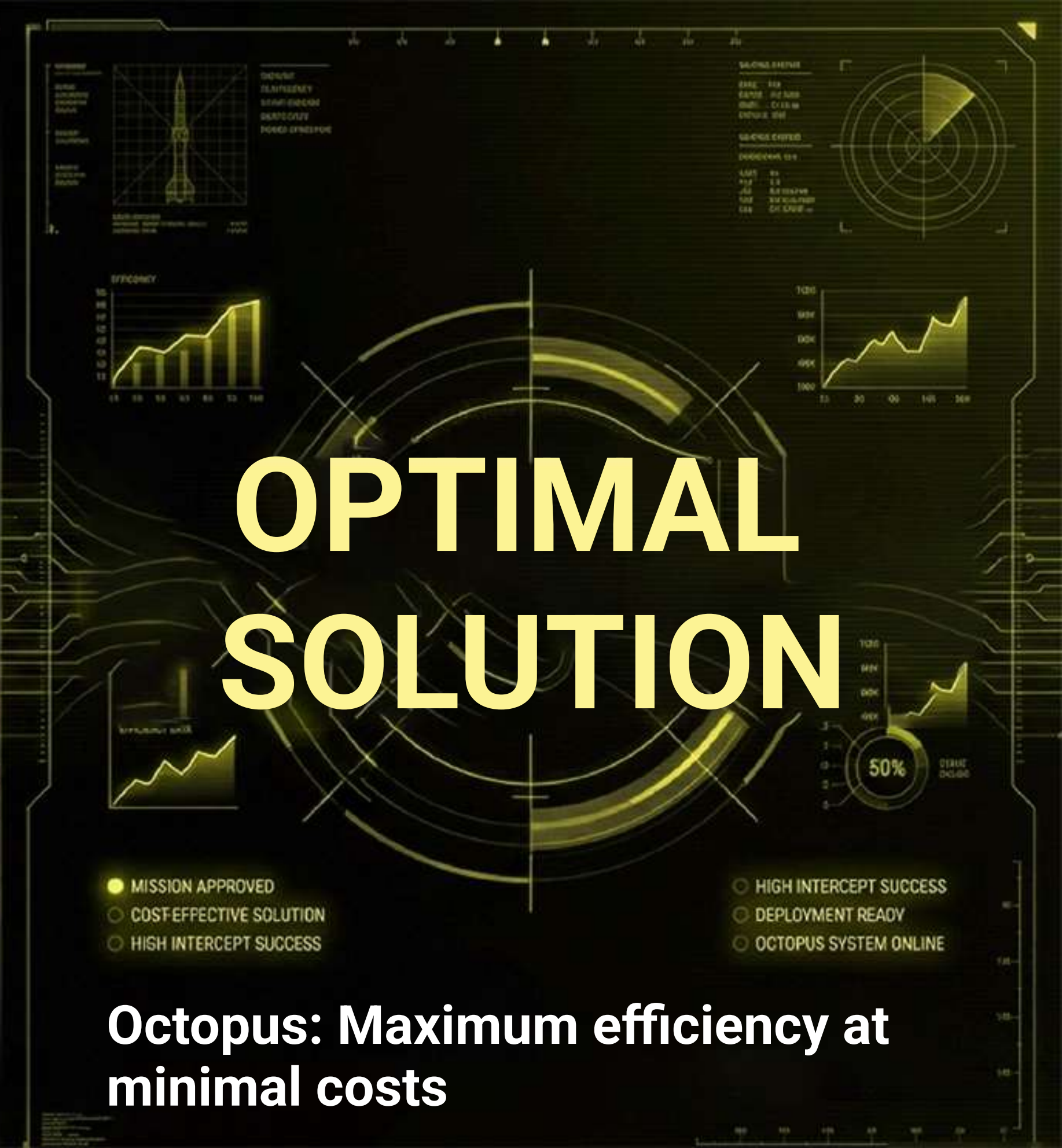
TELEMETRY DATA

DEFS 4.006

LLC «INSTITUTE OF JET AVIATION»



Stinger and Patriot missiles are too expensive for shooting down drones.



Octopus: Maximum efficiency at minimal costs

[SPEED]

>300 km/h

Intercept any kamikaze UAV

[ALTITUDE]

up to 4500 m

[ENGAGEMENT RANGE]

30 km

[WARHEAD]

1,2 kg

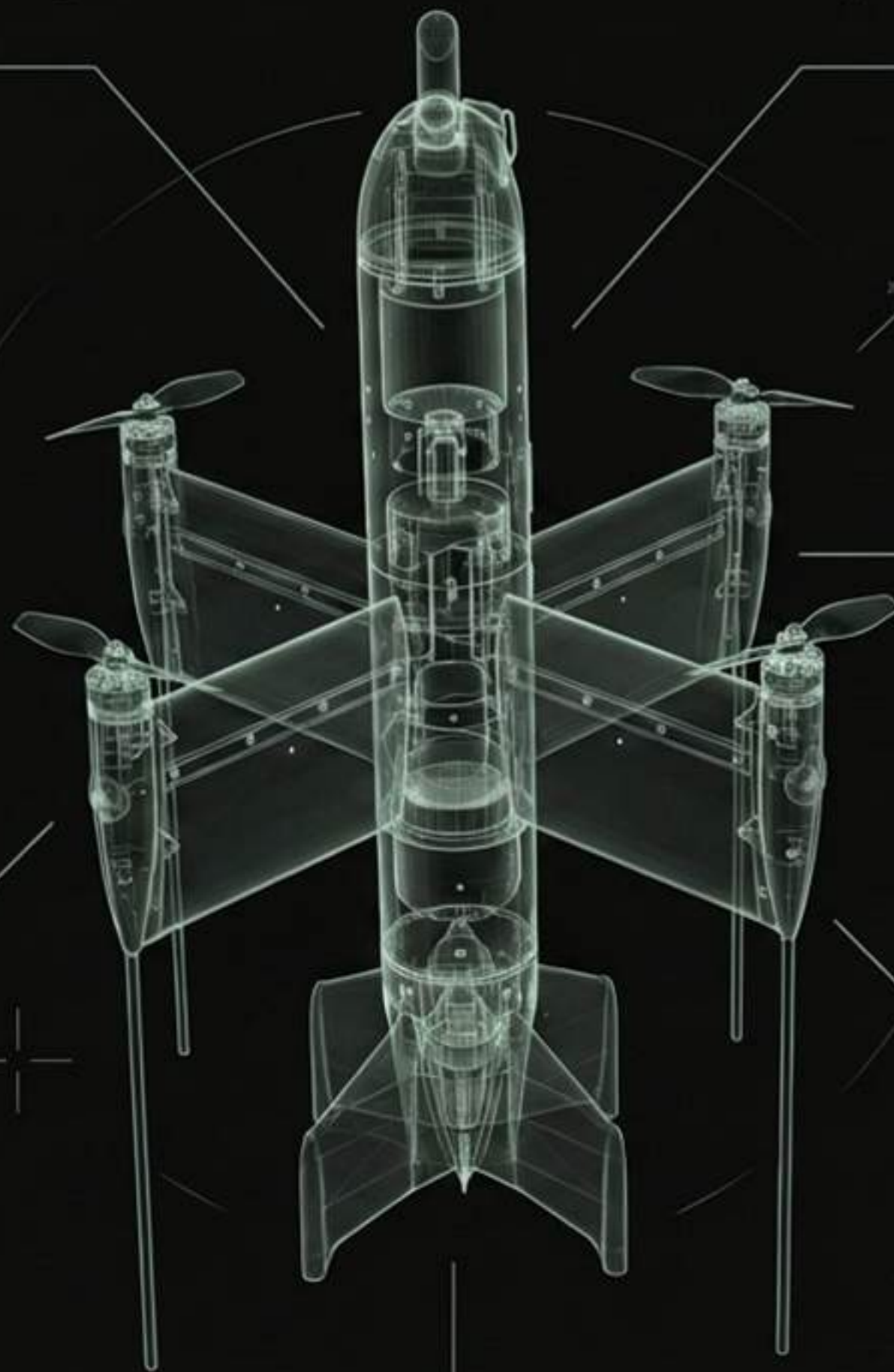
Non-contact initiation /
blast wave damage



[LAUNCH TYPE]

VTOL

Vertical takeoff
without catapult





TELEMETRY

Machine Vision:

Target recognition against the ground during low-altitude flight.

Automatic Guidance (Last Mile Autonomy):

Independent target acquisition and tracking.

Zero Human Factor:

Guaranteed interception at the terminal stage even with video link loss.

TARGET LOCKED //
AI GUIDANCE ACTIVE



2.128

1.7000



EW RESISTANCE.

Absolute resilience. Secure control channels and an inertial guidance system nullify the effects of hostile jamming.

GENERAL	
TYPE	5TH GEN
LENGTH	31.4m
WINGSPAN	10.7m
HEIGHT	4.3m
WEIGHT	13,500kg
MAX SPEED	2,600km/h
MAX ALTITUDE	15,000m
MAX G	9G

TECHNICAL	
ENGINE	2x F414
THRUST	117,000lb
CLIMB RATE	200m/s
TURN RATE	12°/s



NIGHT HUNTER.

24/7 integration into the general radar and acoustic field. Full adaptation for operation in total darkness.



**ABSOLUTE
ENDURANCE**

+55°C

Operation in extreme temperature
conditions and in conditions of critically
low air humidity.

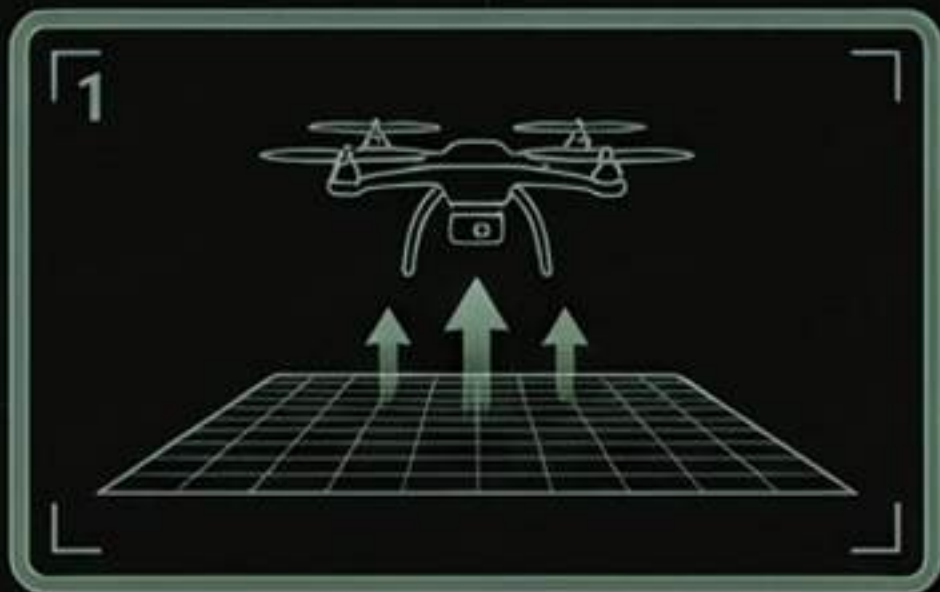
SYSTEM STATUS: ACTIVE



ALTITUDE:
150m

GPS:
LOCKED

ALTITUDE: 158m
FUEL: 85%
GPS: LOCKED



VERTICAL TAKEOFF.
Rapid start from any point
without preparation.



PATROL
Integration with radar, search or
interception of enemy UAV.



RETURN TO BASE
If the target is canceled or not found,
the drone performs a vertical landing,
saving the budget.



X: 045933.1
Y: 40.1798 N

Z: 85.384
+60 E

X: 0.8890.87 X: -83.227
Y: 0.3526.89 Y: -487.180

REUSABLE MUNITION – MAXIMUM COST OPTIMIZATION.



Classic Air Defense (MANPADS)

Conventional FPV Interceptors

Octopus-100

Launch Cost:

High
(\$50k+)

Medium

Low

Guidance:

Radar /
Thermal

Manual
(Operator)

AI-Machine Vision

EW
Resistance:

High

Vulnerable

**Absolute
(Last Mile AI)**

Reusability:

No

No

**Yes
(Return)**

From Innovation to Serial Production



PROJECT DEVELOPER

Ministry of Defence of Ukraine.

(Guarantee of compliance with the highest military standards and front-line needs).

LICENSED MANUFACTURER

LLC «INSTITUTE OF JET AVIATION»

(Licensed by the Ministry of Defence of Ukraine manufacturer)



www.ra.institute



OCTOPUS-100

THE MATHEMATICS OF WAR CHANGED FOREVER.

LLC «INSTITUTE OF JET AVIATION»