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MEDUZA X

Tactical Optical Drone Detection System

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Discover the

MEDUZA X

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Counter UAV Systems
Challenges

Common Systems **Challenges**

Survivability

Emission Disclose Forces' Location

SWAP²

Non-man-portable
High power consumption

Effectiveness

Mitigate self-guided loitering threats

Respond time

Need for visual verification

Meduza X

Solutions

Meduza X **Solutions**

Survivability

Optical-based solution
No emission

SWAP²

Backpack size - less than 12kg, 24h operation on batteries, Cost-effective

Effectiveness

Detects all threats: stationary, stealth, GPS & manually guided

Respond time

AI visual-based detection and recognition

Meduza X **Advantages**

Fast Scanning | Covers 360° in seconds. Rotated by a unique mirror technique

Man Portable | 12 kg in a portable bag enabling **fast deployment**

Supreme Sensors & Edge Computing | Requires minimal pixels for detection. Delivers precise results with minimal FAR

Cost Effective | Designed for easy field maintenance during tactical operations

Meduza X **Advantages**

Edge Computing

Sensor Fusion

C2

Field Proven Technology

Edge Computing

Running our Deep Neural Network on rich raw data yields high PD (>92%) and low FAR (<4%). Distinguishes between drones, birds and other UFOs

Sensor Optical Fusion

High-rate detection in a single frame. VMD combined with ATR for precise recognition in complex environments and backgrounds, including stealth drones

C2

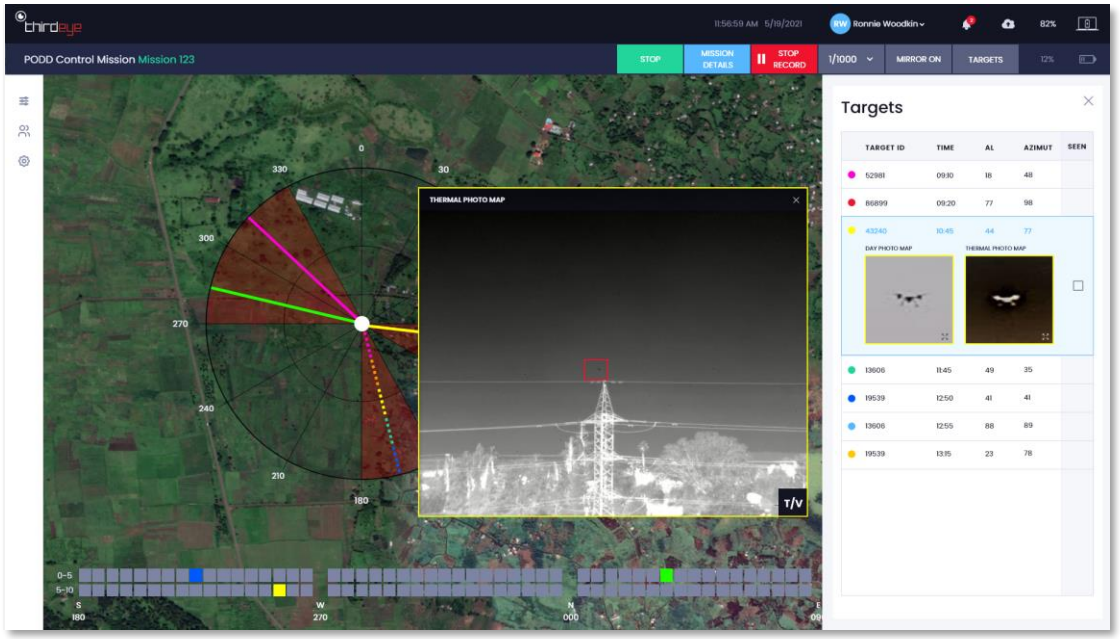
Dedicated C&C to enhance situational awareness for ground forces. Created to support growth and counter measures integration

Field Proven Technology

Operated by organizations and government agencies worldwide to provide security and deal with future swarm threat

Meduza X **Use Cases**

- Special Forces
- Convoys
- Headquarters / C&C
- VIP protection
- Counter-Espionage
- Strategic sites



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Meduza X **Spec**

Specification	Description
Sensor technology	cooled MWIR
Pixel size	10µm
Array format	1280X1024
Effective frame rate	60Hz
Target Recognition	drone
PD (Positive Detection)	97%
Far (False Alarm Rate)	1 per hour
Power Consumption	40w/h
Number of objects	Unlimited
Main Battery	40Ah @ 25.2V, Lithium-Ion Polymer
Operating Temperature	-10°C - +40°C
Weight	12.5 KG

THANK YOU

thirdeye-systems.com

Annex

Industry challenges | **components & methodology**

Radar | Lower belt, proximity, expensive, urban environment

RF Detector | Pre-programmed drones, broken antenna, synchronized frequency, accuracy

EO-IR | Narrow FOV, tracker logicS, multiple targets

Extend Target Affirmative Longevity