MEDUSA SENSING · ISR

A camera that never has to search.

360° radar payload with a gimbal camera, for drones.



1 **Three nodes at 120°**
They detect and track everything that moves, across 360° at once.

2 **Gimbal camera**
It doesn't search: it points at what the radar is already tracking.

3 **Through the dust**
The radar keeps tracking the column where the camera is blinded.

4 **Tracks to C4I**
Kilobits per second: they get through even when the link can't carry video.

THE PROBLEM

A gimbal camera covers 3 to 5°: sweeping 360° takes about 100 positions and minutes per turn. Whatever it is not looking at does not exist.

In armoured manoeuvres, the column raises its own dust and blinds the optics; while the camera looks ahead, the flank goes unwatched. At night, around a bivouac or a halted convoy, the lookout sees little.

MATURITY

No range has been measured yet. Hover drift, telling swaying vegetation from a person, and the heat of the pod still need to be measured. In the mountains, the platform is chosen by altitude.

PAYLOAD AND ESTIMATED RANGES

Parameter	Estimated value
Payload mass	2.3 – 4.7 kg
Power draw	100 – 150 W
Person walking	330 – 400 m
Armoured vehicle	1,050 – 1,480 m
Patrol of 8 at 800 m	8 separate tracks (1.4°)

How it is estimated: the manufacturer measures its four-chip radar against a car at 150–350 m. Slow targets can be observed for longer, which increases range, and the result is then scaled to each target's size.

THE ASK

A technical counterpart with a forward-observation requirement and a test range with people and vehicles to measure against.

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