

# Research on anti UAV swarm system in prevention of the important place

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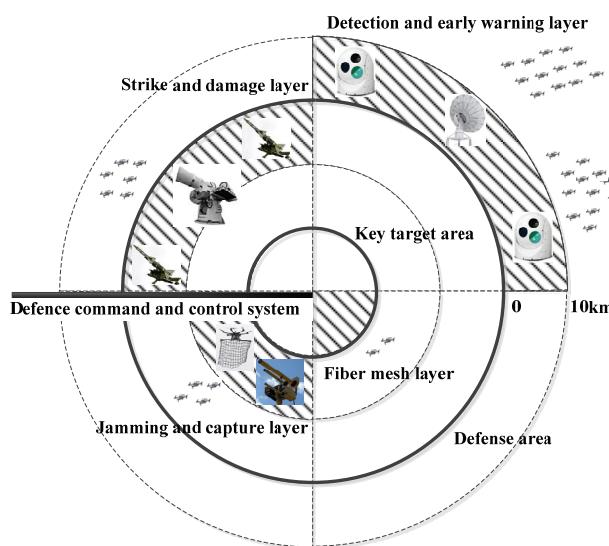
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With the rapid development of artificial intelligence (AI) technology, UAV swarm has become possible. It has become an urgent problem that how to realize the effective counteraction to the UAV swarm in the important target security defence, or in the important place prevention in the war. In this paper, by analysing the development status and combat characteristics of UAV swarm, as well as existing anti-UAV technology, the countermeasures and technologies applicable to UAV swarm is combed. Then the further construction of anti UAV swarm control system is built to realize the effective anti UAV swarm in the key prevention and control.

**Table** The effect of different method in anti UAV swarm

Method	Percentage of successful defense
GPS decoy	1%
air defense fire	2%
laser weapons	4%
microwave damage	24%
Data link interference	0%
Net gun hunting	0%
Fiber mesh	2%

In this paper, the main purpose is to construct the anti UAV swarm system in prevention of the important place. By combing the concept, development and operational characteristics of the UAV swarm, the applicability of different UAV countermeasures to the UAV swarm is analyzed. Then the anti UAV swarm defense system with complex structure, perfect function and full coverage is further constructed. The detection system is comprehensively applied with early warning, prediction and tracking, decoy and jamming, capture and damage, anti reconnaissance and camouflage, and other technical means, to realize the efficient counter control of UAV swarm.



**Figure** Schematic diagram of UAV swarm defence command and control system