

H13 Manpack Portable Loitering Munition System



The H13 Loitering Missile is a short-range, lethal/anti-materiel weapon system that meets the complex requirements of the modern battlefield for precision strikes in the harshest environments such as densely populated urban areas, open fields and mountains.

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The H13 hovers over the target in search of it and strikes at the right moment, even if the target appears only momentarily. When the mission is cancelled, H13 will terminate the attack and return to the cruising state, re-attacking the target when the time is right:



Highly Operable Combat System

The H13 incorporates a state-of-the-art lightweight dual-beam optical seeker (visible and infrared) for non-line-of-sight combat day and night. While maintaining accurate tracking of static and moving targets. The H13 employs a sophisticated navigation method that can operate in environments where GPS is blocked. Suitable for deployment from air, land and sea, with the characteristics of high-speed flight and low-speed loitering. The system has the capability of autonomous, semi-autonomous or manual operation (human-in-the-loop attack capability to avoid collateral damage) depending on mission requirements, and is suitable for all military echelons.

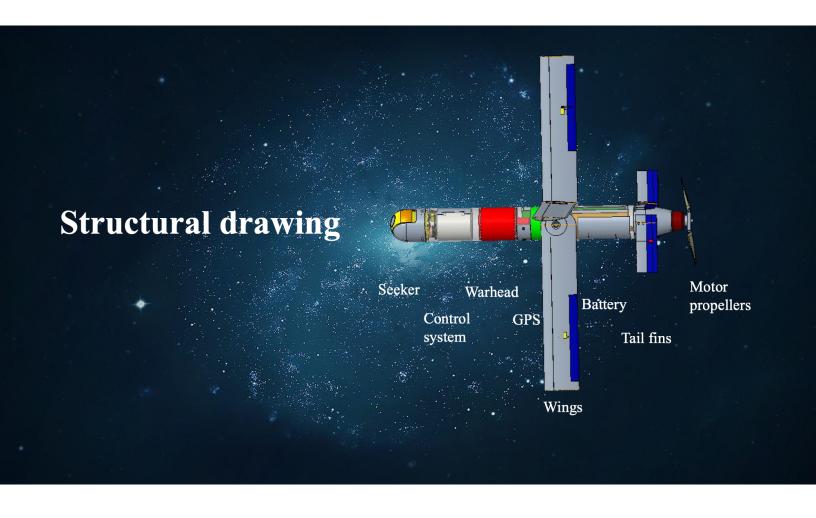
Easy to deploy and operate

The H13 loitering bomb is light in weight, can be carried by a single person, and is easy to deploy. A single person can complete the deployment within 2 minutes.











Parameter System parameters Maximum Azimuth ≥60°/s Rotational Pitch. ≥60°/s **Angular Velocity** Azimuth ≥100°/s2 Maximum rotational angular Pitch ≥60°/ s² acceleration . Rotation range Azimuth $0^{\circ} \sim +360^{\circ}$ Pitch -80° ~ + 50 °(horizontal is zero, up is positive, down is negative) ≤2mrad Angular Accuracy Resolution Stable accuracy ≤1 mrad Infrared **Detector type** VOx detector 640x512 Resolution Pixel pitch 12um NETD ≤30mk Working wavelength 8-14um Focal length 19mm FOV 22.8°x18.3° Image maximum frame rate ≥50fps **CMOS** low light camera Sensor type **CMOS** Resolution 1920x1080 Pixel pitch ≤4um 16mm Lens

26.9°x15.3°

FOV

Video recognition and tracking	ig board	
recognition pattern	automatic	
Recognition rate	94%	
Identification method	Neural Network Deep Learning	
Track window position	Automatically move to any position within the field of vision following the target	
Target selection	manual lock	
Minimum target size	3x3pixels	
Trackable target size	≤3mx4m	
The maximum supported resolution of the camera	1920x1080,30fps	
Minimum SNR	4dB	
Tracking speed	≥80pixels/frame	
Physical properties .		
Dimension *	Φ75x127mm	
Weight	≤500g	
Color	Sky blue	
	IP66	
Peak power consumption	≤ 10W	
	recognition pattern Recognition rate Identification method Track window position Target selection Minimum target size Trackable target size The maximum supported resolution of the camera Minimum SNR Tracking speed Physical properties Dimension Weight Color Environmental indicator Working temperature Storage temperature Protection Power consumption Input voltage Stable power consumption	Recognition rate Identification method Identification Mattematically move to any position within the field of vision following the target Identification method Identification method Identification within the field of vision following the target Identification following the target Identification identification Identification method Identification

Seeker installation drawing

