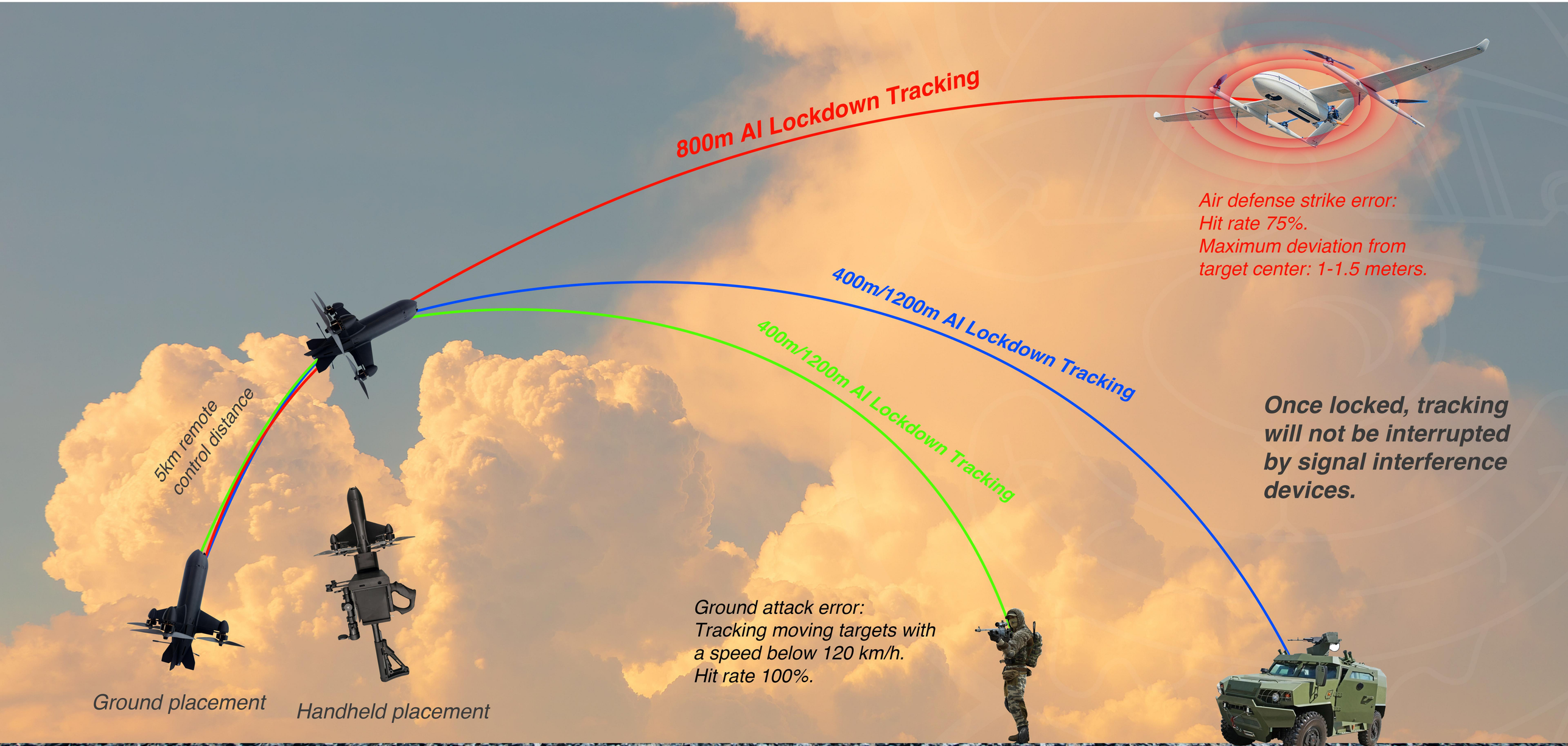
High-Speed FPV Racing Drone | Rocket Type Racing Quadcopter | Interceptor Drone with 350-400km/h Max Speed

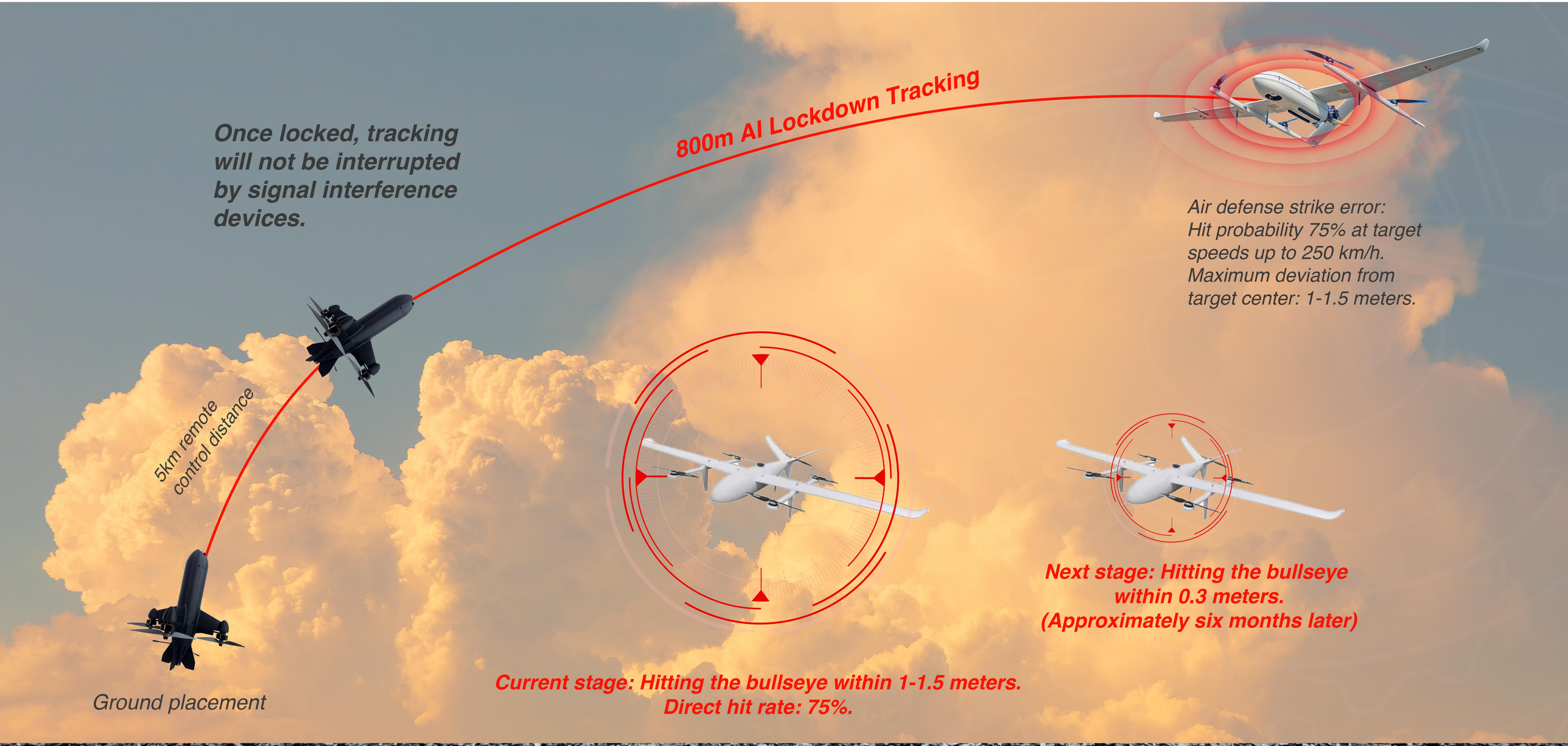
High-speed quadcopter AI-guided drone

Independent air defense drones, specifically designed to intercept drones with a speed of less than 250 km/h.

AI guidance system principle



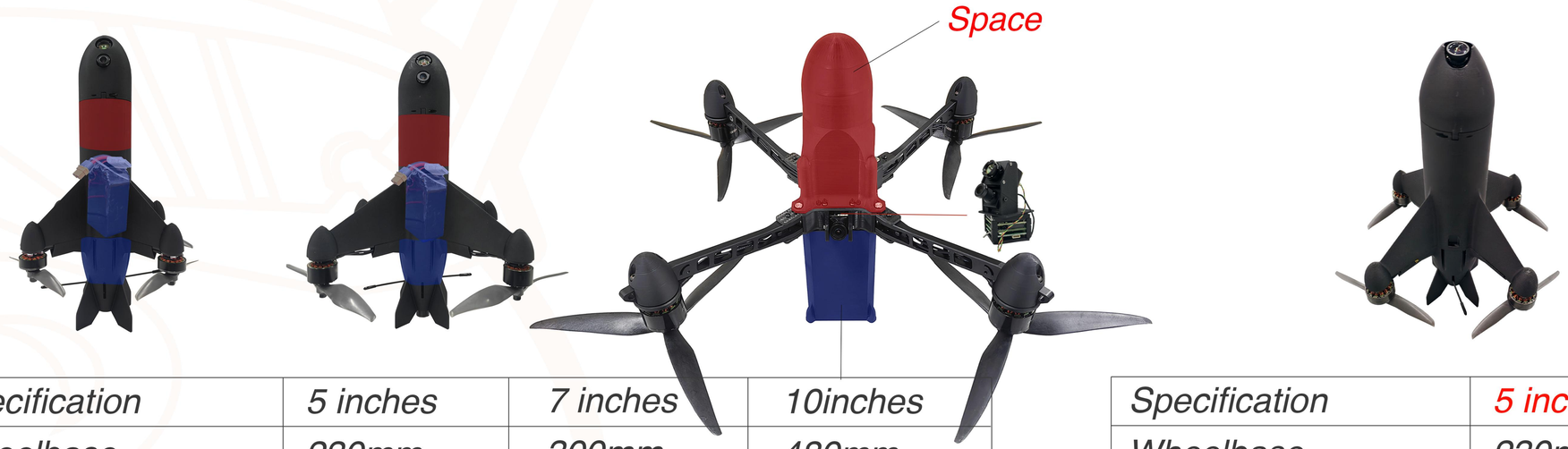
AI guidance system principle



Product Parameters

AI guidance Working principle

Drone parameters



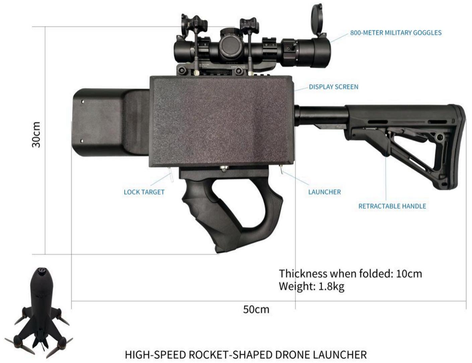
Specification	5 inches	7 inches	10inches
Wheelbase	230mm	300mm	480mm
Load	350g	550g	1500g
Recommended load	300g	450g	1300g
Control radius	10-15km	10-15km	10-15km
Maximum speed	400km/h	350km/h	300km/h
Maximum height	5km	5km	5km
Average speed	111m/s	97m/s	83m/s
Battery life	6min	6min	10min
Target speed	≤120km/h	≤120km/h	≤100km/h

Ground takeoff: Striking ground targets from the air.

Specification	5 inches
Wheelbase	230mm
Load	350g
Recommended load	200g
Control radius	10-15km
Maximum speed	380km/h
Maximum height	5km
Average speed	105m/s
Battery life	5min
Target speed	≤ 250km/h

Engaging aerial targets: Only one type of drone.

AI ground-to-air target tracking camera parameters



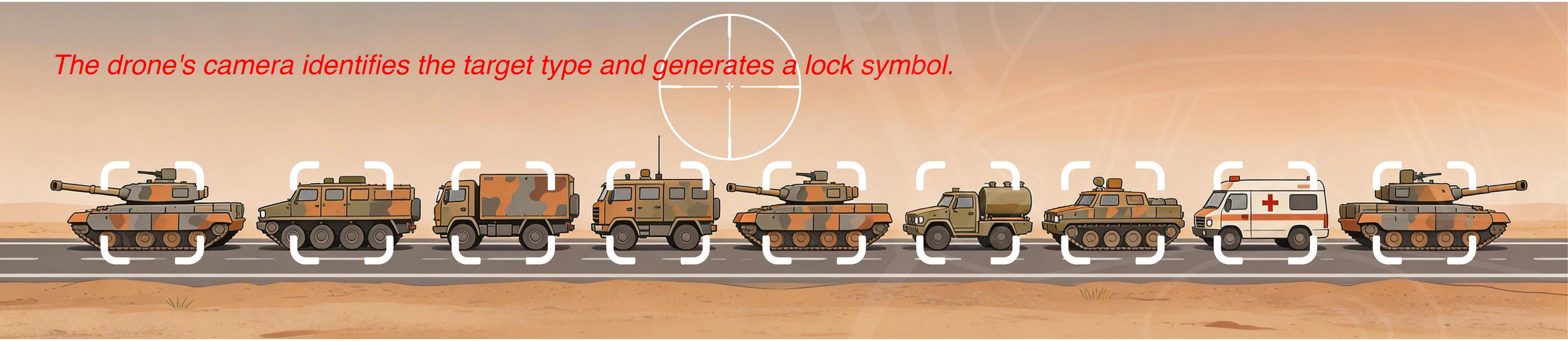
Specification	Single visible light
AI Computing Power (TOPS)	N
Recognition Distance	800m
Target Tracking Speed	≤ 250 km/h
Visible Light Lens	1 unit
Sensor Size	1/2.8 inch
FOV (Field of View)	69°(H)*42°(V)
Low Light Sensitivity	7341 mV/lux·s
Thermal Imaging Lens	Optional
Thermal Imaging FOV	Optional

AI tracking parameters for aerial targets

Specification	Parameters
Weight	1.8 kg
Overall length	50 cm
Maximum width	30 cm
Maximum folded	10 cm
Top eyepiece	Aids human eye in identifying targets up to 800 meters away
Body display screen	Foldable
Tail handle	Retractable

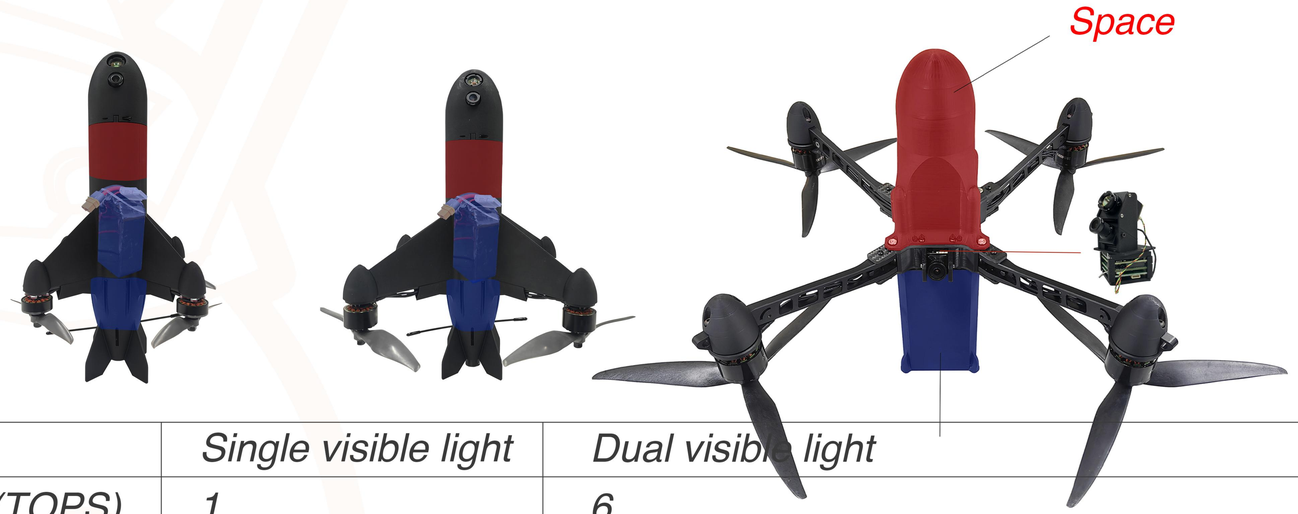
Launcher parameters

AI guidance system principle



Identify > Aim > Confirm with remote control lever > AI tracking and strike

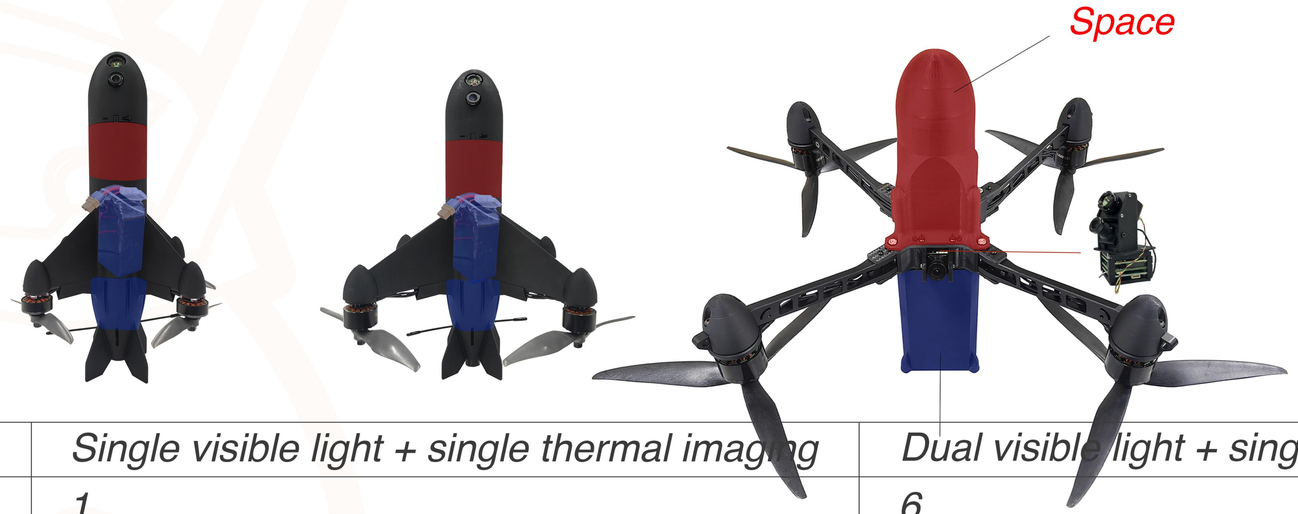
Air-to-ground AI camera configuration selection



Specification	Single visible light	Dual visible light
AI Computing Power (TOPS)	1	6
Recognition Distance	450m / 170m	1200m / 500m
Target Tracking Speed	≤ 120 km/h	≤ 120 km/h
Visible Light Lens	1 unit	2 (wide-angle + telephoto)
Sensor Size	1/2.8 inch	1/2.6 inch
FOV (Field of View)	69°(H)*42°(V)	72°(H)*45°(V) / 26°(H)*15°(V)
Low Light Sensitivity	7341 mV/lux·s	9650 mV/lux·s
Thermal Imaging Lens	None	None
Thermal Imaging FOV	None	None

Ground takeoff: In-flight AI chases moving targets on the ground. Camera configuration can be selected.

Air-to-ground AI camera configuration selection



Specification	Single visible light + single thermal imaging	Dual visible light + single thermal imaging
AI Computing Power (TOPS)	1	6
Recognition Distance	450m / 170m (visible light)	1200m / 500m
Target Tracking Speed	≤ 120 km/h	≤ 120 km/h
Visible Light Lens	1 unit	2 (wide-angle + telephoto)
Sensor Size	1/2.8 inch	1/2.6 inch
FOV (Field of View)	69°(H)*42°(V)	72°(H)*45°(V) / 26°(H)*15°(V)
Low Light Sensitivity	7341 mV/lux·s	9650 mV/lux·s
Thermal Imaging Lens	Yes	Yes
Thermal Imaging FOV	20.3°(H)*15.2°(V)	20.3°(H)*15.2°(V)

Ground takeoff: In-flight AI chases moving targets on the ground. Camera configuration can be selected.