



TACTICAL
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LONG SWORD LASER DEFENSE SYSTEM



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“LONG SWORD”-X LASER DEFENSE SYSTEM

Main Mission

- It's designed for occasions where security and anti-terrorism are needed such as core departments (head of governor), airports, oil depots, nuclear power plants, important military targets, VIP security, major events and so on. It can be rapidly disassembled, loaded for mechanical defense or fixed defense, and used to prevent invasion, attack, investigation, photographing, smuggling and aviation hazards of "low altitude, slow speed and small size" aircraft.

Items	Standard Indexes
Laser Power	3kW~4kW
Maximum Attack Time	120s/Battery Power(according to need), Continuous/Urban Power
Airspace Working Range	Pitch Angle:-20°~60°;Azimuth Angle:±170°
Maximum Attack Distance	1.0km~1.2km

“LONG SWORD”-Q LASER DEFENSE SYSTEM

Main Mission

- Used to counterattack of "low altitude, slow speed and small size" aircraft, it can meets the short-range defense requirements of police, security and anti-terrorist, and has the capabilities of rapid mobility, self-defense system, detection and attack during moving.

Items	Standard Indexes
Laser Power	3kW~10kW
Maximum Attack Time	120s/Battery Power
Airspace Working Range	Pitch Angle:-15°~70°;Azimuth Angle:N x 360°
Maximum Attack Distance	1.0km~2.0km



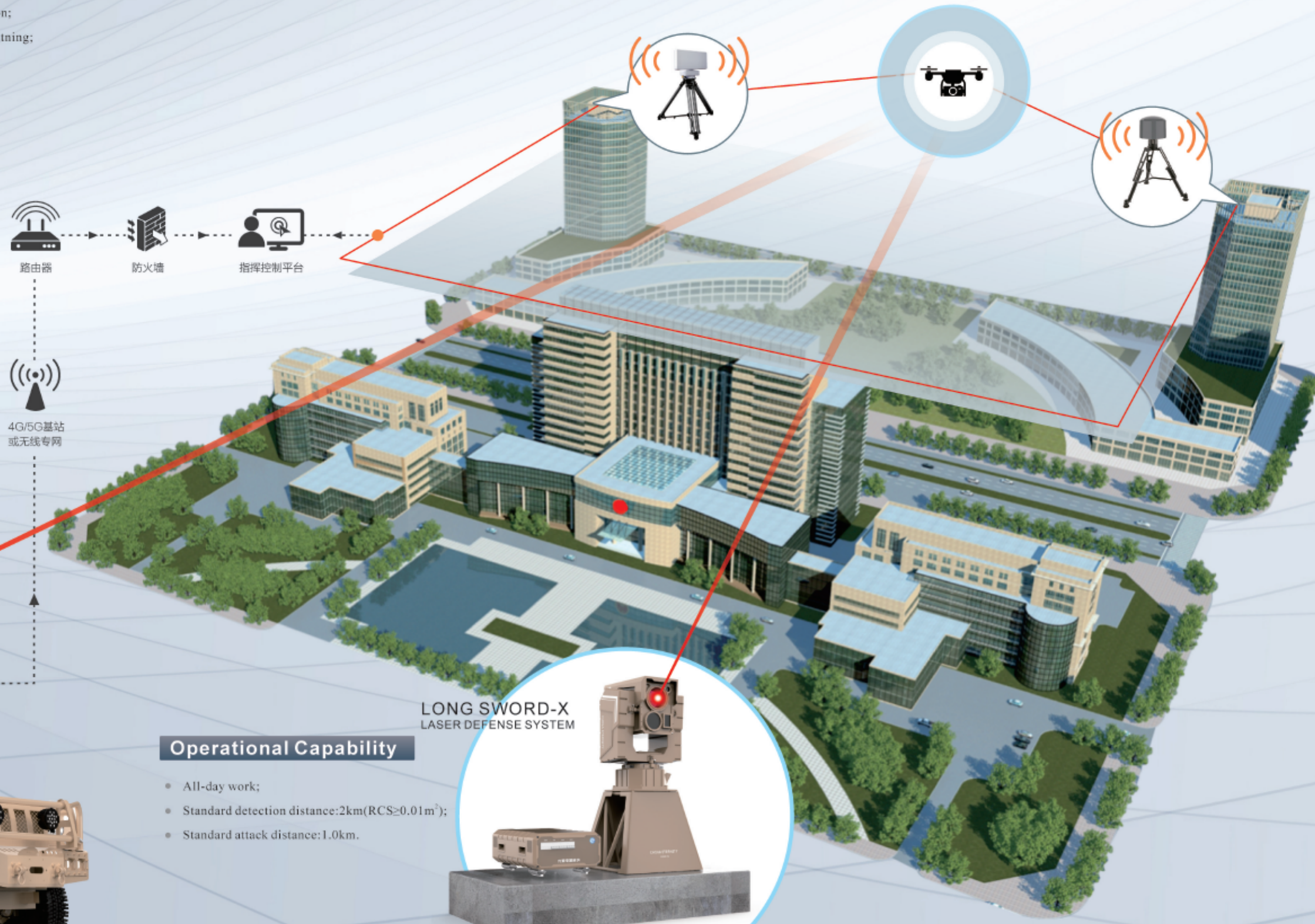
• Applicable Environment

- Eligible to the city's complex electromagnetic and illumination condition;
- Eligible to extreme weather such as snow, sand, mould, thunder and lightning;
- Eligible to 3000m altitude;
- Working environment temperature: $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$;
- Storage environment temperature: $-20^{\circ}\text{C} \sim 55^{\circ}\text{C}$;
- Solar irradiance $1120\text{W}/\text{m}^2$ (4h at least);
- Wind resistance level: $\geq$ level 5;
- Protection level: IP65.

Operational Capability

- Can capture the target independently without radar;
- Quick power on self test;
- All-day work;
- Supply different laser power according to different attack distances' needs.

LONG SWORD-Q
LASER DEFENSE SYSTEM



Operational Capability

- All-day work;
- Standard detection distance: 2km ($\text{RCS} \geq 0.01\text{m}^2$);
- Standard attack distance: 1.0km .



Schematic Diagram of System Construction Scenario

Application Scenarios of Laser Defense System



Head of Governor



Airport



Dam



Oil Depot



Nuclear Power Plant



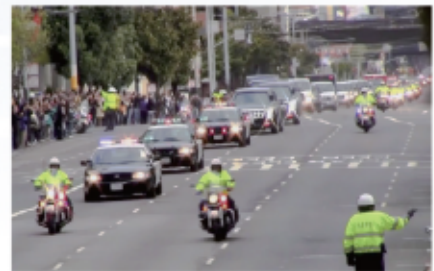
Important Military Objective

Main Mission

- Combat operations centers
- Weapon positions
- Ammunition depots
- Army camps
- Field training camps

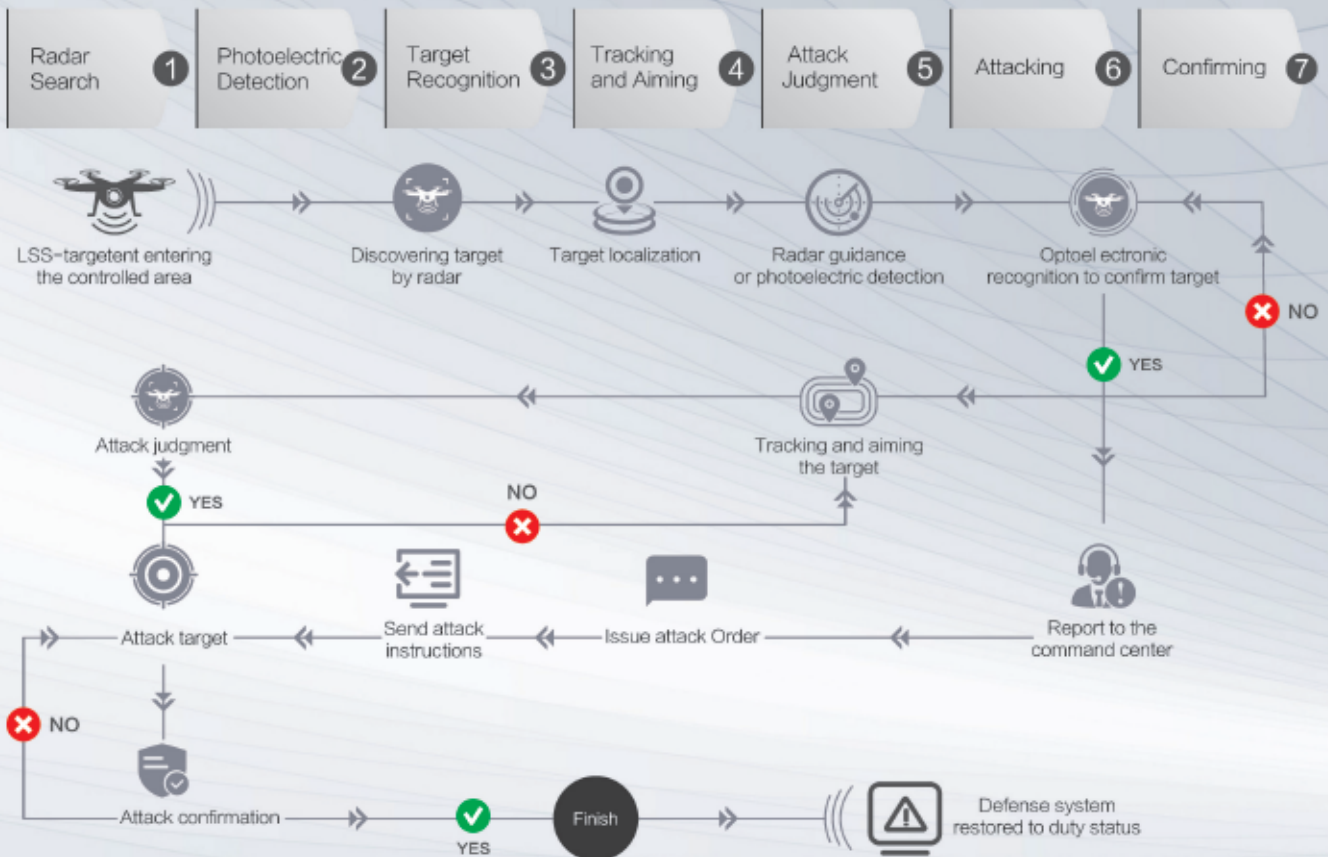


Border Defense



Vip Security

Workflow of Laser Defense System



Operation of Laser Defense System

- It's easy to be operated by one person;
- It's safe and reliable through manual control;
- Various counter-measures are available;
- Low maintenance with durability.

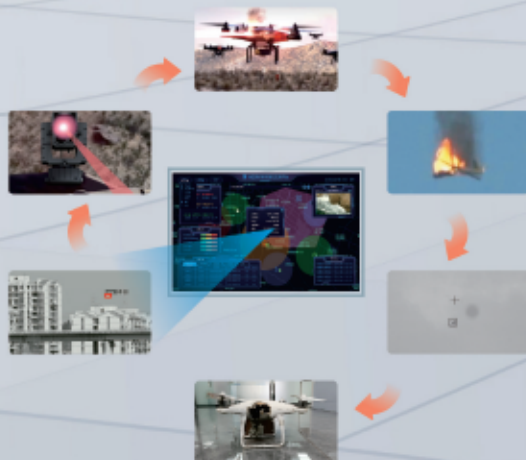


Diagram of Operation Process