

3 Kw Power 500m Laser Anti Drone Multi-Spectral Sensor And Fiber Laser Integrated Anti Drone System For Quick Neutralization And Response

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: MYT
- Certification: CNAS、CMA、CAL、ILAC-MRA
- Model Number: DD-L3
- Minimum Order Quantity: 1
- Price: Pricing is negotiable based on order quantity
- Delivery Time: 10 work days
- Payment Terms: TT, LC
- Supply Ability: 1000units per month



Product Specification

- Strike Distance: $\leq 500\text{m}$
- Damage Time: $\leq 15\text{s}$
- Laser Power: 3kw
- Continuous Working Time: Standby For 4 Hours With 15 Seconds Of Continuous Strike Time And 200 Seconds Of Total Strike Time
- Highlight: **3 Kw Power Laser Anti Drone System, Multi Spectral Anti Drone System, 500m Laser Anti Drone System**


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Product Description

Single Module Ytterbium-doped Fiber Laser solution

1, Product Introduction

DR-L3 is an AI-powered 3kW laser system engineered for rapid deployment and precision neutralization of low-altitude drone threats. This integrated platform combines an indigenous high-power single-mode fiber laser with multi-spectral (visible/IR) sensors and AI-driven autonomy. It delivers swift target neutralization ($\leq 15s$) with pinpoint accuracy (beam deviation $\leq 3cm$ at 500m), effectively engaging even high-speed, maneuverable targets at ranges up to $\geq 800m$ acquisition / $\leq 500m$ strike. Designed for exceptional operational efficiency, it boasts an extremely low cost-per-intercept (≈ 1 kWh electricity) and near-infinite "magazine depth" under sustained power and cooling. It offers superior stealth (silent, invisible strikes) and resilience in complex electromagnetic environments. With 4 hours standby, 15s continuous lasing bursts, and 200s total engagement capacity.



DR-L3
Single Module Ytterbium-doped
Fiber Laser solution

Integrated Detection
& Strike

Low Operational Cost

High Strike Precision

Rapid Target
Neutralization

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PRODUCT HIGHLIGHTS

1 Integrated Detection & Strike

AI-fused multi-spectral sensors + fiber laser enable instant "strike-on-detection," shortening kill chains for rapid response.

2 Rapid Target Neutralization

High-energy laser destroys low-altitude drone critical components in ≤ 8 seconds.

3 High Strike Precision

Pinpoint accuracy ("see it, hit it") - $\leq 3cm$ beam deviation @ 500m; effective against fast, maneuverable threats.

4 Low Operational Cost

Neutralization via "light energy" costs ≈ 1 kWh per shot - exceptional cost-effectiveness vs. kinetic weapons.

5 High Sustainability

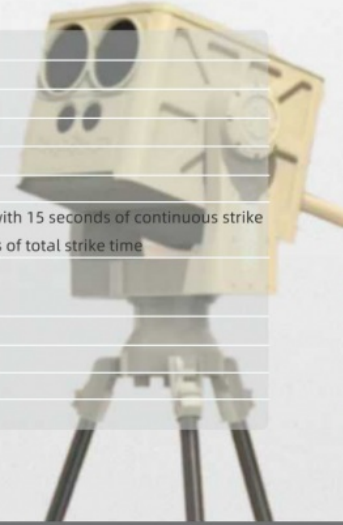
Near-infinite "magazine depth" with stable power/cooling; ideal for persistent defense & drone swarms.

6 Superior Stealth

Noise-free, invisible, directional strikes; hard to detect/counter in complex EM environments.

KEY PERFORMANCE

Properties	Parameters
Maximum acquisition distance	≥800m
Strike distance	≤500m
Damage time	≤15s
Laser power	3kw
Aiming accuracy	≤30urad
Continuous working time	Standby for 4 hours with 15 seconds of continuous strike time and 200 seconds of total strike time
Capture mode	Manual/Auto
Strike mode	
Number of operators	1 to 2 operators
Deployment time	≤10min
Weight of optical turret	≤16kg
Weight of Laser device	≤18kg



DR-L10

Ultra Power Ytterbium-doped Fiber Laser

High precision

Fast Launch

Low cost

Strong firepower



DR-L10 is a cutting-edge high-energy laser system designed to rapidly neutralize airborne threats. The formidable system boasts an exceptional 10 kW laser output, enabling target acquisition at distances beyond 800 meters and delivering devastating strikes within 500 meters. Engineered for speed and efficiency, it achieves target damage in just 15 seconds or less. Uncompromising accuracy (≤ 7 urad) ensures pinpoint targeting even on fast-moving objects. Offering maximum flexibility, it supports both Manual and Auto modes for seamless capture and strike operations. Designed for rapid field deployment within 10 minutes.

PRODUCT HIGHLIGHTS

- **Fast Launch:** Launched at the speed of light, it can hit the target in a very short time.
- **High precision:** The laser beam is focused to coin size to improve the efficiency of strike.
- **Strong firepower:** 10kW power ensures lethal damage to target.
- **Low cost:** With long-term, continuous, repeatable launch.
- **Light weight:** Easy to deploy.
- **Intelligent:** Support automatic strike.

KEY PARAMETER

Key Parameter	Unit	Specification
Operating Mode	/	CW (Continuous Wave)
Polarization State	/	Random
Center Wavelength	nm	1080 ± 1
Spectral Width (@3dB)	nm	± 5
Max. Output Power	W	10000
Power Adjustment Range	%	5 ~ 100
Power Stability	rms %	± 3%
Beam Quality M ²	/	≤ 3.8
Output Connector	/	QBH
Core Diameter	μm	50
Output Fiber Length	m	2
Input Voltage	VAC	DC (400V ± 10%, Customizable)
Max. Power Consumption	W	30000
Weight	kg	≤60
Cooling Method	/	Water Cooling (22°C ~ 25°C)
Operating Temperature	°C	-5 ~ +40
Storage Temperature	°C	-20 ~ +60

Properties	Parameters
Maximum acquisition distance	≥ 3000m
Strike distance	≤850m
Damage time	≤15s
Laser power	10kW
Aiming accuracy	≤7 urad
Continuous operating time	Standby for 4 hours with 15 seconds of contin200 seconds of total strike time
Capture mode	Manual/Auto
Strike mode	Manual/Auto
Number of operators	2-3 operators
Deployment time	≤10min
Weight of optical turret	≤180kg
Weight of Laser device	≤60kg

2, Product Highlights

1). Integrated Detection & Strike

AI-fused multi-spectral sensors + fiber laser enable instant "strike-on-detection," shortening kill chains for rapid response.

2). Rapid Target Neutralization

High-energy laser destroys low-altitude drone critical components in ≤8 seconds.

3). High Strike Precision

Pinpoint accuracy ("see it, hit it") - ≤3cm beam deviation @ 500m; effective against fast, maneuverable threats.

4). Low Operational Cost

Neutralization via "light energy" costs ≈1 kWh per shot - exceptional cost-effectiveness vs. kinetic weapons.

5). High Sustainability

Near-infinite "magazine depth" with stable power/cooling; ideal for persistent defense & drone swarms.

6). Superior Stealth

Noise-free, invisible, directional strikes; hard to detect/counter in complex EM environments.

3, Key Performance

Properties	Parameters
Maximum acquisition distance	≥800m
Strike distance	≤500m
Damage time	≤15s
Laser power	3kw
Aiming accuracy	≤30urad
Continuous working time	Standby for 4 hours with 15 seconds of continuous strike time and 200 seconds of total strike time
Capture mode	Manual/Auto
Strike mode	
Number of operators	1 to 2 operators
Deployment time	≤10min

Properties	Parameters
Weight of optical turret	≤16kg
Weight of Laser device	≤18kg

4, Application Scenarios



5, Certification Certificate





6, Company profile

Chongqing Miao Yitang Technology Co., Ltd. is a specialized company engaged in anti-drone and unmanned intelligent defense management.

With the technical support from the AI Internet of Things Research Institute of the Chinese Academy of Sciences and collaborations with multiple intelligent AI companies, the company has established research laboratories for AI unmanned field products, accumulating a variety of technical patents.

The company's products are widely applied to unmanned automatic management solutions for various defense and perimeter areas, including AI anti-drone systems and AI unmanned vehicle patrol systems. These systems integrate with multiple technologies such as optoelectronics, radar, vibration, thermal imaging, facial recognition, and radio frequency management, truly achieving a 24-hour uninterrupted anti-drone defense and ground perimeter defense warning system. This allows for cost savings for clients, reduction in human resource allocation, and ensures the safety of clients' lives and property. The outstanding security system has won the company an excellent reputation and created higher value for its partners.



7, Customer Service

1). We offer 24 hours service after sales

2). If there are any usage or quality issues with the product, we provide online technical support to diagnose the cause of the problem.

3). Should you find the products unsatisfactory, kindly return it to us within a period of 3 months from the date of dispatch. Upon receipt and inspection, should the products be found to be free from any damage attributable to human factors, a full refund will be granted. Alternatively, we can engage in discussions to amend the product and subsequently reship the product to you.

CUSTOMER SERVICE

- * Fast and patient communication: professional sales reply immediately
- * Fast delivery: usually 2-7 days
- * Flexible Safe shipping: fast by air or sea with cheap freight
- * Customer-friendly: complete user manual and exact video training provided
- * After sales service: one year warranty and life time technical support



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