



LBC500

Fiber Laser Obstacle Remover

The Next Generation of Drainage & Blasting Guardians



High portability



High efficiency in
obstacle removal



High security level



Low maintenance cost

LBC500

Fiber Laser Obstacle Remover



Trees and wooden products



plastic cement products



plastic products



metal casings for explosives



textiles

The LBC500 Fiber Laser Obstacle Remover adopts high-energy laser beam, which can be used for remote operation such as grid clearance and blasting project ignition, and can be applied to many fields such as military and civil use.

The overall control of the LBC500 is concentrated on a tablet computer, which can set the target point and adjust the laser power. LBC500 can aim at the target at a long distance. It uses a precision steering pan/tilt to precisely control the direction of the pan/tilt. Through a special optical system, it uses high energy and high heat to break down the target, so as to remove faulty objects or leave marks.

Key Features & Advantages

High portability

► Lightweight, small size, capable of being carried by a single soldier for field operations.

High security level

► The LBC500 has dump protection, biometric security protection, peripheral device security protection, authorization control, night vision, and GPS positioning functions.

High efficiency in obstacle removal

► Target positioning is stable and fast, aiming time being less than or equal to 60 seconds; light spot size extremely small, penetration speed fast.

Low maintenance cost

► The Fiber laser has low power consumption, long service life, and maintenance-free.

Application Scope

Grid clearance

Remove twigs and other debris from near wires.

Mine EOD

Detonate the mine bomb.

Airport clearance

Police clearance drones.

Military EOD

Detonate training duds.

Other areas of obstacle clearance or detonation

Other fields that can be used for clearing or detonating wood products, plastic products, textiles, plastic cement products, metal casings of explosives, etc.

Configurations



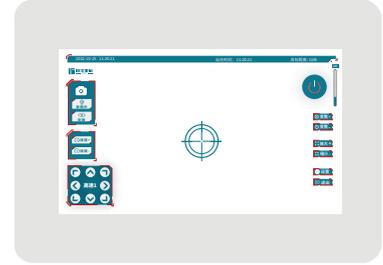
Laser host

- Equipped with a set of 500W laser
- Main host weight 13.5kg
- Host size 380*340*150mm



Emitter

- Equipped with 1 set of Emitter.
- Equipped with a set of electronic telescopic aiming system, which can be electrically adjusted to zoom and focus.
- Equipped with 1 set of recording system, which can record and take pictures of remote targets, and has the function of recording the whole process.
- *In the aimable state, the aiming time of any target within the azimuth is ≤ 60 seconds.



PTZ system

- Equipped with a high-precision electronically controlled steering system for precise aiming.
- Built-in WIFI module, which can be controlled wirelessly.



Battery power

- Equipped with 2 sets of portable ternary lithium batteries, the weight of a single battery is 13.5kg, and the working time at full load is ≥ 90 minutes.



Control terminal

- Equipped 1 tablet PC.
- Equipped with a set of obstacle removal system control software to realize the function of automatic cutting at fixed points for small floating objects.

Technical Specification

Host weight:

$\leq 13.5\text{kg}$

Host size:

380×340×150mm

Length of fibre-optical cable:

$\geq 2\text{m}$ can be customized (Customizable)

Power output voltage:

48V

Laser output power:

500W

Clear time:

$\leq 600\text{S}$ (Take a typical foreign body 120 meters away and 10 cm wide as a reference)

The furthest obstacle clearing distance:

240 meters

Communication method:

WIFI

Cooling method:

Air cooled

Focus spot size:

$\leq 6\text{mm}$ @100m

Action light peak wavelength:

1080±3nm

Rotation angle of Pan/Tilt/Zoom motion system:

Horizontal 360°; Vertical 360; Accuracy 0.625 arc seconds

Telescope zoom:

1x-500x adjustable zoom

Zoom mode:

Electric mode controlled by software

Targeted Video Image Resolution:

1920*1080 pixels

Operating temperature:

-15°C~+50°C

Operating humidity:

10%RH~90%RH

Storage temperature:

-5°C~70°C

Altitude:

4000m and belowed altitude

Security function:

Tip-over protection

Biometric security features

Peripheral equipment security protection function

Night vision

Authorization control function

Partners



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