



## WEICAI LCD/LED Laser Machine

AN-512DQ-20 hz



### Product application

Mainly in the mirror through the high frequency pulse laser beam of the LCD internal semiconductor circuit of the micron size of cutting and trim especially passivation layer (silicon oxide / nitride) and metal interconnection to achieve the role of line maintenance, the device can adjust the laser pulse energy and wavelength for different target materials.

## Equipment use

It is mainly caused by the internal line defects of the LCD screen, including LCD screen highlights, vertical line, horizontal line, cross line, half line, black screen, gray screen, screen thickness, picture jitter, uneven display, and a series of screen and internal line problems of the screen substrate.

- **Laser Type:** Single channel modulation Q (crystal 6MM) semiconductor laser ND-YAG, specific parameters are as follows:

<b>Laser Current</b>	≤20A	lasing mode	Multi-mode
<b>Laser Voltage</b>	AC220V 50HZ	output energy	1064nm@100-500mJ 532nm@50-250mJ
<b>The Power of the Machine</b>	Less than =1,000 W	Energy Stability	Less than =3%@1064nm /532nm
<b>Laser Lamp</b>	F7-85-155	Operate Mode	Work intermittently, continuous working time maximum 50min and stop minimum 10min.
<b>Wavelength</b>	1064NM 532NM	Cooling-Down Method	Hydrocooling
<b>Repeat Frequency Rate</b>	1-20HZ	Water Flow	5L/Min
<b>Pulse Length</b>	8-15NS	Water pressure	Less than =0.1Pa
<b>Tune Q Way</b>	Active Q	Water Tank Capacity	6L

**Overall Specification: 190CN-203CN-175CN**

<b>X Axis Itinerary</b>	800MM	Y Axis Itinerary	1400MM
<b>The X Manually</b>	800MM	Z Axis Focuses	230MM
<b>Moves the Trip</b>		On the Itinerary	
<b>Packing Specifications</b>	1900-1800 1800MM	Weight	850KG

- Applicable LCD panel size 85 inches and below.
- Point (3um X 3um), horizontal and vertical lines (50um X 3um long), block (50um X 50um).
- Digital spot, electronic light brake red light can remember 5 kinds of spot specifications.
- **Spot system:** Weicai is developed from the 3rd generation.

- **Light source:** Red light (laser spot labeling) upper light source (cold white light irradiation) lower light source (58-inch backlight, highlighted LED light bar).

## Optical Imaging System

- **Type:** Microscopy imaging module XF-VM 3-1 XCV 6.3.
- **Objective lens switching system:** precision 4-hole / electric switching type (linear).
- **Precision objective lens group:** 5 times, 10 times, and 20 times.
- Enpiece type M Plan APO 5X 10X observation (visible).
- Eye type M Plan NIR 20X laser processing (NIR).
- **CCD:** BNG connector 1200lines / colors
- **Monitor Display:** 17inches (4:3) LCD

## Processing and Loading Stage and Drive System.

- **Size of working platform:** 1800 mm-1530 mm
- **Table carrier material:** Precision grinding optical glass platform
- **Platform base:** Precision steel structure

**Sports system: private service control + precision linear wire guide rail module box | Motion control: set 4-gear conversion (super low speed, medium speed, high speed, super high speed) Focus system.**

- **Focus Type:** Electric point control / knob control focus focus
- The shock absorber system.
- **Form of Shock Absorber:** the vibration transmitted by 4 air bags
- **Natural frequency (vertical / horizontal):** 2~2.3 Hz
- **(Equipment level: B)**

### Supply Electricity

- AC 220 V  $\pm$  10%, 50 HZ / 60HZ 20A power supply connector M6 terminal table  
Ground wire JIS grade 1,8 mm sq.

**Solid warranty period of equipment: One year (calculated from the next day after acceptance).**

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