



## WEICAI LCD/LED Laser Machine

### CR-512 DQ-30 Mzh



### Product Application

Mainly under the mirror through the high frequency (30 HZ) pulse laser beam on the LCD screen inside the micron size of the semiconductor circuit components cutting and trim especially passivation layer (silicon oxide / nitride) and metal interconnect to the role of line maintenance, the device can be used for different target material design digital display adjustment laser pulse energy and interface optional wavelength.

## Use Range of the Equipment

Scope, (TV, PC, touch teaching machine, splicing, notebook, digital, car display products) LCD internal line defects caused LCD screen window, vertical line, line, cross, half line, the size of the head line or LCD screen built-in GOA structure caused by black screen, gray screen, net coarse, picture jitter, level uneven display, and a series of screen substrate internal line problems caused by fault phenomenon.

**Scope 2.** Abnormal vertical line, no display, and other adverse faults occurred in TFT \ OLED mobile phone screen and wearable products.

● **Laser type:** single modulation Q (crystal 5MM) 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@80-350mJ 532nm@60-280mJ
<b>The power of the machine</b>	Less than = 2,500 W	Energy stability	Less than =1%@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>	1-30HZ	Water flow	5L/Min
<b>Pulse Length</b>	0.1-1.0NS	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 Moves the Trip</b>	800MM	Z axis focuses on the itinerary	230MM
<b>Packing Specifications</b>	1900-1800-1800MM	Weight	835KG

- Applicable LCD panel size 85 inches and below
- Point (2um X 2um), 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 developed from the 4th 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 (ultra low speed, medium speed, high speed, super high speed) Focus system.**

**Focus type:** Electric point control / knob control 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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