

# Instruction Manual



**FY-1WH**

Our equipment is approved by the following car manufacturers (China)



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# 1. Precaution

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1. Read this manual carefully before installing or servicing this equipment.
2. This equipment is designed for paint drying applications. Adjust to correct temperature and check minimum safe distance from heat source when using. Improper servicing can cause paint surface damage.
3. Installation and servicing must be performed by a qualified installer or service agency.
4. The system has been designed for easy installation, low operating costs and minimal maintenance. The warranty does not cover lamp tube defects resulting from misuse or improper operation.
5. Disconnect power source when the equipment is not in use for a long period.
6. The lamp tube should not be perpendicular to the ground when the equipment is operating. Otherwise, it will shorten the life of the lamp tube.

## 2. Specifications

Model	FY-1WH
Input Power Source	Single Phase 220V 50/60Hz
Input Power (W)	1000
Curing Area (mm)	800 × 450
Temperature (°C)	35 - 100
Time Setting	0 - 60 mins Adjustable
Light Intensity (%)	10 - 100

### 3. Installation

The shortwave infrared curing lamp is divided into 3 parts (a base, a frame and a cassette)

1) Installation of the base:

- a. Open the packing of the base.
- b. Install the four wheels on the base and tighten up the screws.

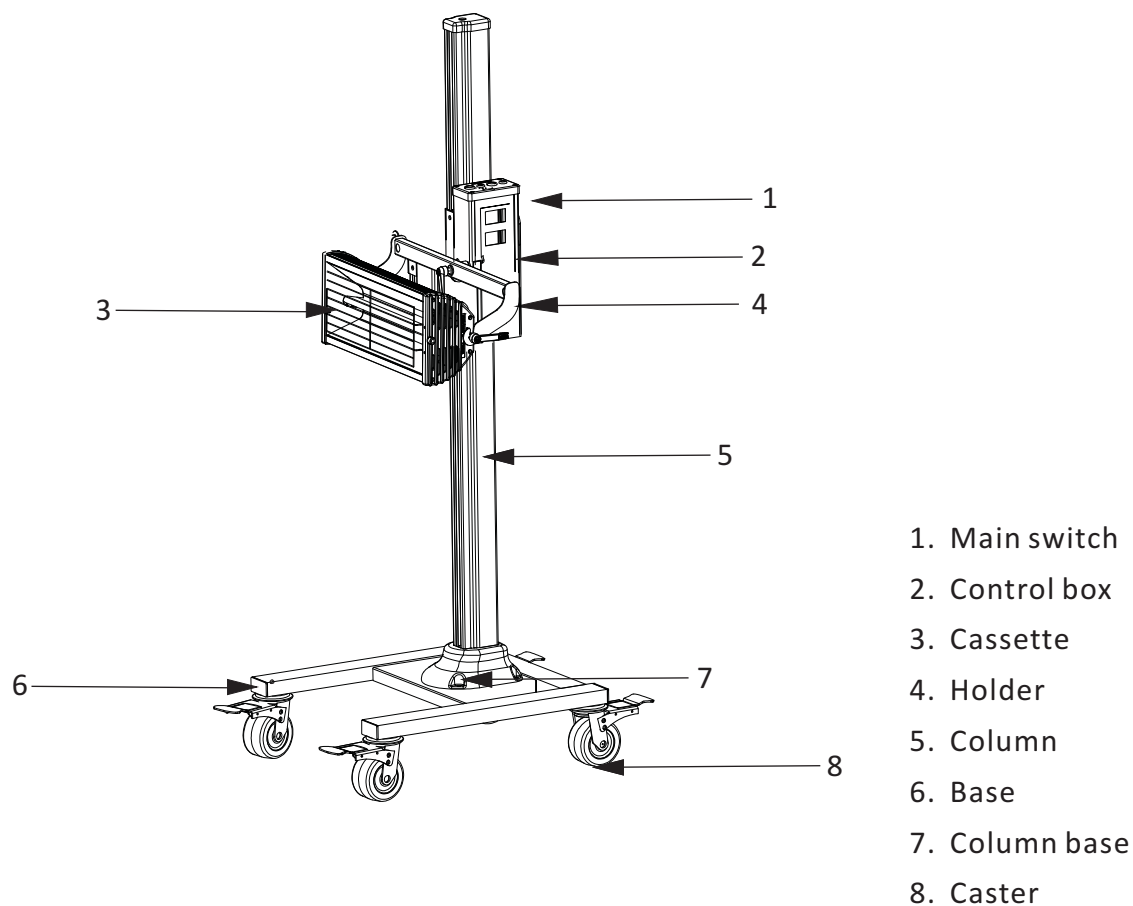
Usually, the wheels with brakes are mounted on the rear of the base.

2) Installation of the frame:

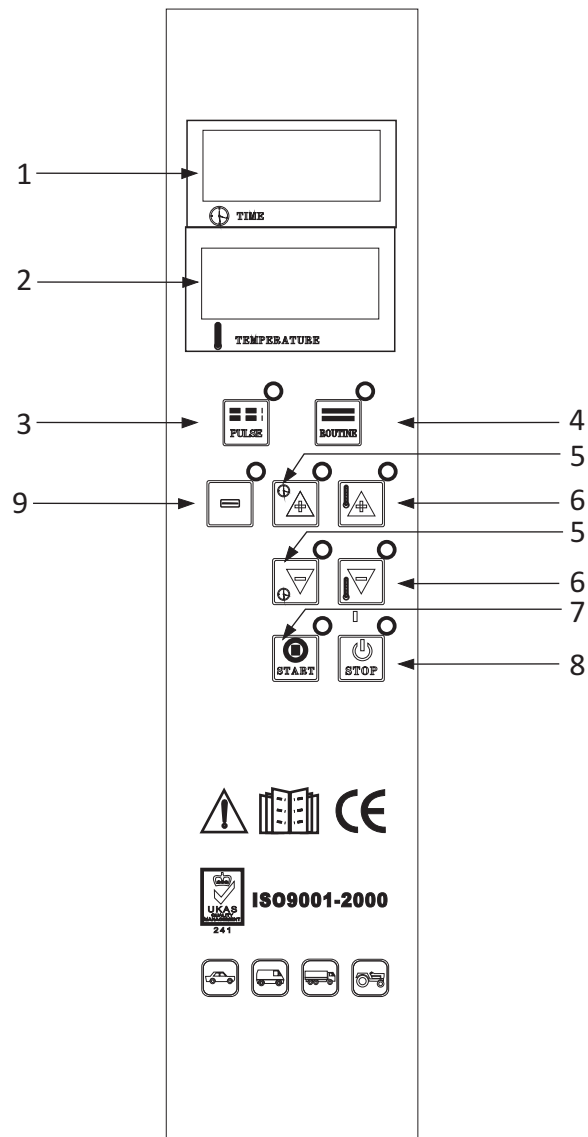
- a. Open the packing of the frame.
- b. Put the column onto the top of the base, line up the screw holes and tighten up with screws.

3) Installation of the cassette:

- a. Open the packaging of cassette with care.
- b. Connect cassette with holder and tighten up by screws.
- c. Connect control wires and adjust the angle of the lamps.



## 4. Controls

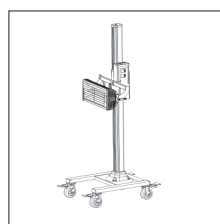


1. Time display
2. Temperature display
3. Pulse paint curing
4. Routine paint curing
5. Time adjustment
6. Temperature adjustment
7. Start
8. Stop
9. Lamp selector

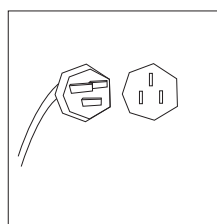
Circuit breaker must be installed

## 5. Operation

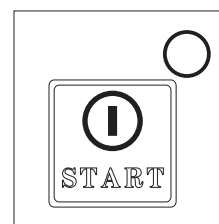
1. Connect electricity supply. Make sure that the supply cable is at least 4mm<sup>2</sup> at 220V  
Note: Make sure that the facility supply voltage and frequency are the same as shown on the equipment name plate.
2. Connect to power supply AC 220V. Switch on the equipment. Select "Pulse" or "Routine". Pulse curing helps to achieve more lustrous results.
3. Set time and power according to the requirements of paint used for curing to achieve the best curing result (usually, the values are set at 15 mins in time and 70% in power).
4. Adjust the distance from heat source to paint surface (usually, keeping a distance of 45cm from the paint surface is the best). The lamp should also be kept parallel to the paint surface.
5. Protect the lamp against shocks and vibrations even when it is cold.
6. During the curing process, the paint surface must be clean without water and impurities.
7. Preferably do not touch quartz with bare hands. If grease or chemical compound have been deposited on quartz, simply clean before lighting with cloth moistened with alcohol.



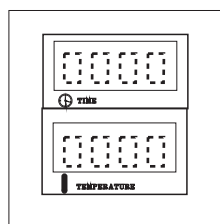
Install machine



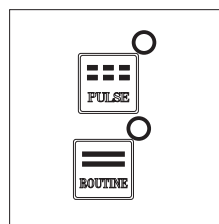
Connect input power



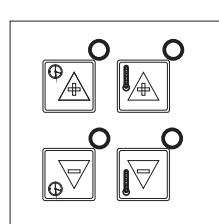
Switch on



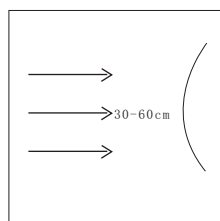
Digital display data



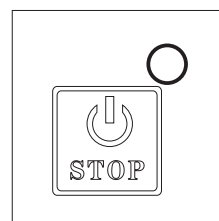
Select "Pulse" or "Routine"



Set temperature and time



Keep heat source parallel to paint surface a distance of 30-60cm



Switch off the machine after curing

## 6. Troubleshooting

### 1) Troubleshooting

PROBLEM	CAUSE	SOLUTION
Lamp tube does not work	1) Lamp tube damaged 2) Lamp not plugged in 3) SCR damaged	1) Check lamp tube 2) Check connections 3) Check SCR
Lamp tube lights all the time	1) SRC damaged	1) Check SCR
Digital display does not work or is incomplete	1) Flat wire unplugged in circuit board 2) Digital display damaged	1) Check flat wire 2) Check digital display
Can not adjust temperature and time switches	1) Potentiometer damaged 2) Timer damaged	1) Check whether the potentiometer is in proper working condition 2) Check whether the timer is in proper working condition



## 6. Troubleshooting

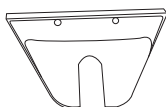
### 2) Lamp Tube Replacement



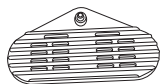
(1)



(2)



(3)



(4)



(5)



(6)

1. Prepare cassette for replacement.

2. Remove the grille of cassette.

3. Remove the plates on both ends of the cassette.

4. Remove the fixed plates from both ends of the cassette.

5. Loosen fixed screws and remove connections. The lamp can now be replaced.

6. Repeat the above steps in reverse order to install the new lamp.

7. Circuit Diagram

