

UV LED Curing Oven



UVLED Curing Oven HTBX-II User Manual

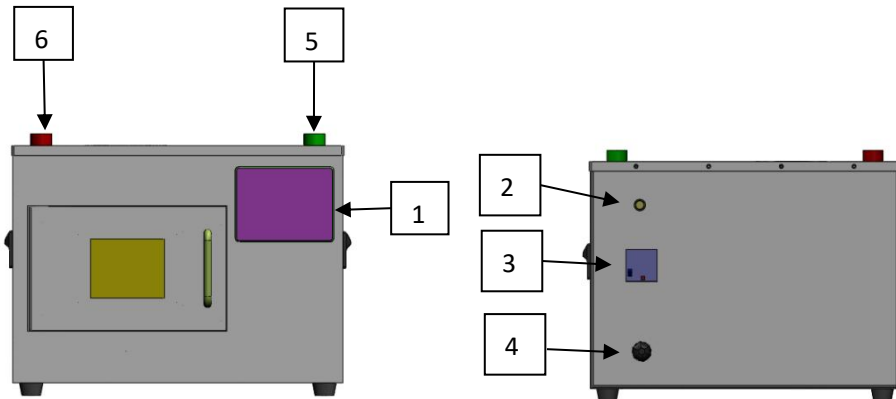
**Thank you very much for buying UV LED Curing Oven HTBX-II.
Please read the product manual before you use it .**

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1. Main structure and working principle

1.1 Main structure



1.Touch screen	Display the current real-time power, temperature, and irradiation time, while starting and stopping the UVLED curing oven operation, parameter setting and alarm information viewing.
2.Pedal connector	Connect the foot pedal signal cable
3.Leakage switch	Main power switch
4.Power cord	External input power cord of oven, connect with European standard plug,230V 50HZ
5.Indicator light	Power on indication
6.Buzzer	Alarm prompt

1.2 Working principle

The first step is power up the oven.

The second step is set the corresponding parameters and set the corresponding functions (Please refer to the operating instructions for details).

The third step is to open the oven door, put in the product, and close the door (in manual mode, click the start button to start the oven, click the stop button or open the door to stop the irradiation; in the automatic mode, the door is closed to start the irradiation and count down, and the irradiation stops when the time is up).

2. Main performance parameters

Dimension	450*380*355mm (L*W*H)
Power supply	120V/60HZ
Control style	PLC control
Wavelength	365nm
Curing area	200*200mm
Optical power adjustment	1-100% adjustable
Life	20000H
Cooling method	Fan cooling
Working environment temperature	-10°C--50°C
Working environment humidity	10%--80%RH No condensation
Power Consumption	600W

3. Installation

Installation precautions: Open the package and check whether the accessories are intact and complete (one oven + pedal + manual).

Installation sequence:

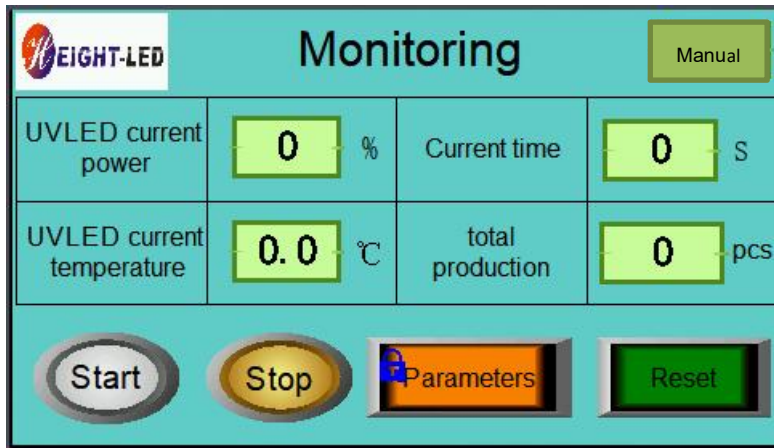
1. Fix the position of the oven.
2. Just plug in the power cord.

4. Operation instructions



Start interface

Click "Click to use" button to enter the monitoring interface.



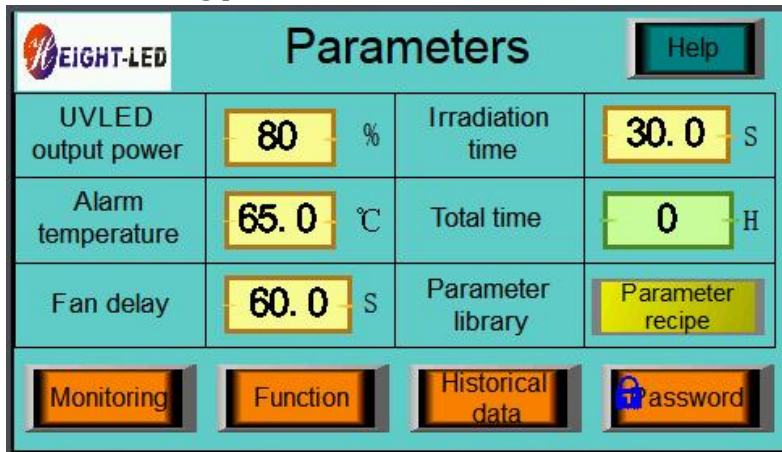
Monitoring interface

UVLED current power	Current UVLED output power display
UVLED current temperature	Current UVLED real-time temperature display
Current time	The current UVLED irradiation time is displayed. Automatic mode, time counts down, it will stop automatically when the time is up, and the light will stop when the door is opened midway. After closing the door in manual mode, click "start" to start the timer, click "stop" or the door opens to stop
Total production	Production quantity statistics
Start	Click the start button in manual mode to turn on the light
Stop	Stop button
Parameters	Click this button to jump to the parameter setting interface
Reset	Click this button to clear the production quantity statistics
Manual/AUTO	Manual/automatic mode display, currently manual mode

Click "Parameter" and the following screen will appear, after inputting "666888", click "Enter".



After obtaining permission, enter "Parameter".

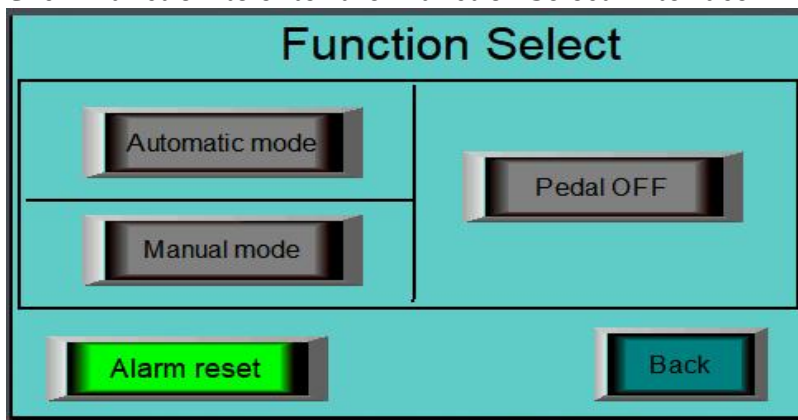


Parameters

UVLED output power	Output power setting:UVLED output power setting (range: 1-100%)
Alarm temperature	Alarm temperature setting:when the real-time temperature is higher than the alarm setting temperature, UVLED will be forcibly closed and an alarm will prompt (the alarm temperature setting range:60°C-65°C)
Irradiation time	Irradiation time:UVLED irradiation time in automatic mode(range: 1-999.9S)
Total time	Total time: cumulative UVLED historical irradiation time
Fan delay	After the UVLED is off, the cooling fan stops with a delay(range:1-999.9S)
Help	Help:basic operation introduction
Monitoring	Click this button to return to the monitoring interface
Function	Click this button to enter the function selection

	interface
Historical data	Historical data: Store the irradiation time of each product, that is, the irradiation power (the maximum storage is 100,000, and the most recent data will be automatically overwritten when it is full)
Password	Click this button to enter the password change interface, you need to enter "891227" to obtain permission
Parameter library	Parameter library, click the "Parameter library" button to enter

Click "Function" to enter the "Function Select" interface.



Function Select interface

Automatic mode	Automatic mode: close the door of the oven , the UVLED will be turn on and start the countdown. Turn off the UVLED when the time is up, open the door halfway or click "stop" to turn off the UVLED
Manual mode	Manual mode: After closing the door of the oven , click the "Start" button, the UVLED will be turn on and start timing (that is, cumulative timing). Open the door or click the "Stop" button to turn off the UVLED
Pedal OFF	Pedal switch: After selecting this function, the start button becomes invalid. This function must be used in conjunction with automatic mode or manual mode, (for example: automatic mode + foot pedal function, close the oven door, step on the pedal once to turn on the UVLED and start the countdown, turn off the UVLED when the time is up, open the door halfway or click stop to turn off the UVLED)
Alarm reset	Reset alarm
Back	Return

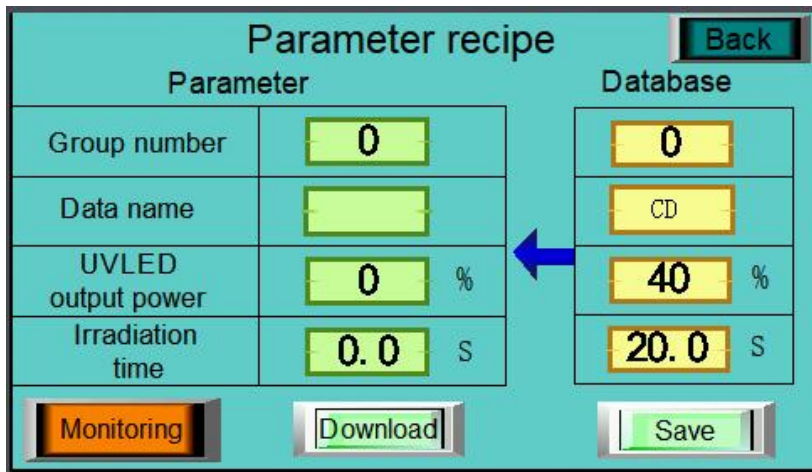
When a temperature alarm occurs, after troubleshooting, click "Alarm reset"



When the UVLED is turned on in the automatic mode, and the irradiation time has not expired, the following alarm prompts will appear. Click "Alarm reset" to restart.



Click the "Parameter library" button to enter the parameter library settings.

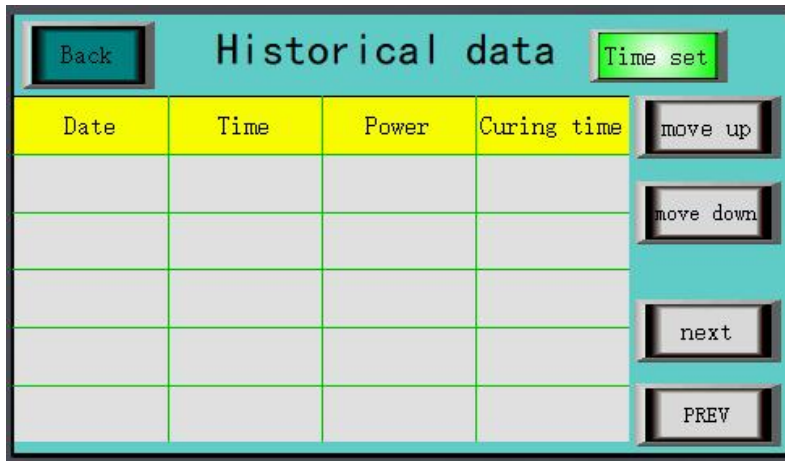


Parameter recipe interface

Group number	Parameter group number.You can click the group number of the parameter library to change the group.
Data name	The name of the data.You can customize the name of each group of parameters, you can enter letters.
UVLED Output power	Set output power
Irradiation time	Set irradiation time
Download	Download the data of the parameter library to the running parameters

Save	The output power and irradiation time in the parameter library can be customized. Click "Save" button to save the set parameters.
Monitoring	Back to "monitoring" interface
Back	Back to "parameter" interface

Click "Historical data" to enter the historical data interface.

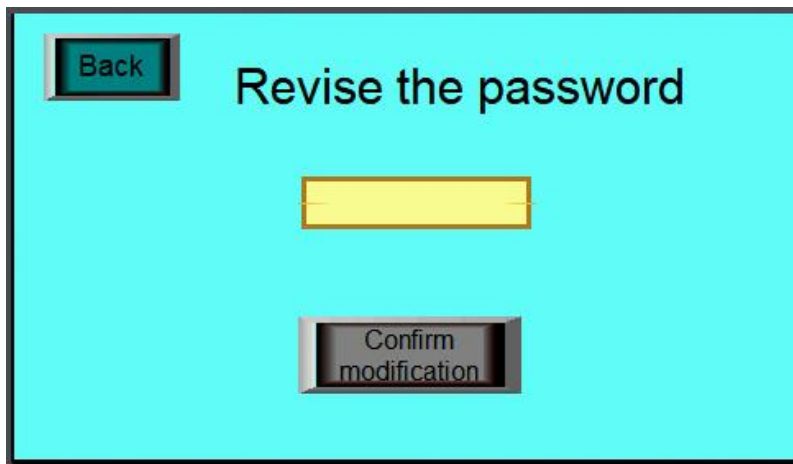


Historical data

Historical data: Store the production date, time, irradiation power, and irradiation time of each product.

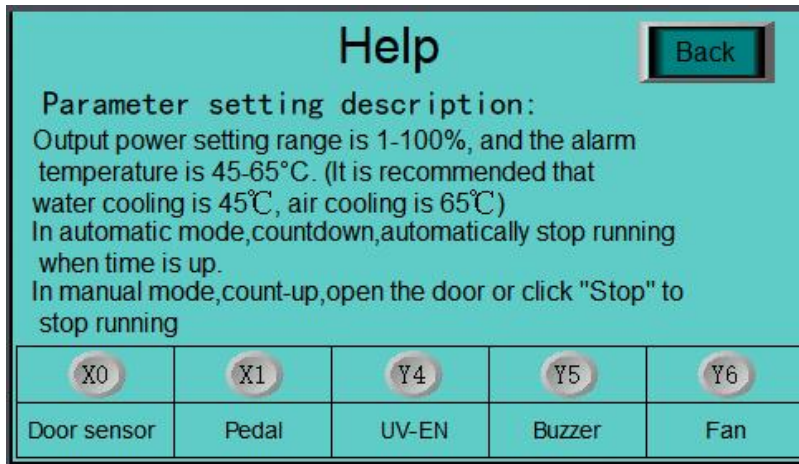
Time Set: When the current time is not accurate, click to change the set time.

Click "Password" to enter the "Revise the password" interface, where the engineer password can be changed.



Engineer password	Default "666888"
Administrator password	"891227" Unchangeable

Click "Help" to enter the help interface.



















Help

Help:basic operation instructions

Indicator light: Check the input and output signals to judge the fault.

Quick operation example:

Automatic mode	<p>1. Click , click ,</p> <p style="text-align: center;">  </p> <p>entering password "666888" to enter the parameter interface</p>												
	<p>2. Enter the parameters as shown in the figure</p> <table border="1" data-bbox="608 1335 1311 1570"> <tr> <td>UVLED output power</td> <td>80 %</td> <td>Irradiation time</td> <td>30.0 S</td> </tr> <tr> <td>Alarm temperature</td> <td>65.0 °C</td> <td>Total time</td> <td>0 H</td> </tr> <tr> <td>Fan delay</td> <td>60.0 S</td> <td>Parameter library</td> <td>Parameter recipe</td> </tr> </table> <p>click , enter the "Function select" interface.</p>	UVLED output power	80 %	Irradiation time	30.0 S	Alarm temperature	65.0 °C	Total time	0 H	Fan delay	60.0 S	Parameter library	Parameter recipe
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<p>3. Choose , turn off pedal</p> <p>, click ,</p> <p>back to monitoring interface.</p>													

	<p>4. Open the door of the oven to put in the product, then close the door, the UVLED will be light up. After 30 seconds, the UVLED will be automatically turn off (or open the door and click to stop), take out the product. Repeat this.</p>												
Manual mode	<p>1. Click , click ,</p> <p>entering password "666888"  to enter the parameter interface</p> <p>2. Enter the parameters as shown in the figure</p> <table border="1" data-bbox="608 792 1310 1028"> <tr> <td>UVLED output power</td> <td><input type="text" value="80"/> %</td> <td>Irradiation time</td> <td><input type="text" value="30.0"/> S</td> </tr> <tr> <td>Alarm temperature</td> <td><input type="text" value="65.0"/> °C</td> <td>Total time</td> <td><input type="text" value="0"/> H</td> </tr> <tr> <td>Fan delay</td> <td><input type="text" value="60.0"/> S</td> <td>Parameter library</td> <td><input type="text" value="Parameter recipe"/></td> </tr> </table> <p>click , enter the "Function select" interface.</p> <p>3. Choose , turn off pedal</p> <p>, click ,</p> <p>back to monitoring interface.</p> <p>4. Open the door of oven to put in the product, then close the door, click , the UVLED will be light up. When the timer starts, click , the UVLED will be turn off and take out the product. Do this repeatedly.</p>	UVLED output power	<input type="text" value="80"/> %	Irradiation time	<input type="text" value="30.0"/> S	Alarm temperature	<input type="text" value="65.0"/> °C	Total time	<input type="text" value="0"/> H	Fan delay	<input type="text" value="60.0"/> S	Parameter library	<input type="text" value="Parameter recipe"/>
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Fan delay	<input type="text" value="60.0"/> S	Parameter library	<input type="text" value="Parameter recipe"/>										

5. Common faults and solutions

Failure phenomenon	Cause of issue	Approach
No power on	Poor contact of the power cord	Check the power interface, whether the power cord plug is in good contact.
	Leakage protection tripped or fuse blown	Open the electric control cabinet of the machine and check whether the leakage protector and the fuse are normal and whether they are in good contact.
High temperature alarm	<ol style="list-style-type: none"> 1. The alarm temperature setting is too low. 2. The temperature sensor is faulty. 	<ol style="list-style-type: none"> 1. Set the alarm temperature :65°C. 2. Enable the spare temperature sensor. (Contact manufacturer)
UV LED lamp does not light up	<ol style="list-style-type: none"> 1. The control line is loose or the wrong line is connected. 2. An alarm occurs. 3. Door sensing sensor failure 4. other reasons 	<ol style="list-style-type: none"> 1. Wiring strictly according to the wire number, and tighten the screws. 2. Eliminate the alarm according to the touch screen prompts. 3. Repair or replace the door sensor. 4. Contact the manufacturer to provide fault analysis.

6. Equipment service

1. Clean the surface dust every day, keep the body clean, regularly clean the dust on the cooling fan port, and keep the cooling channel normal (normally clean once a month, depending on the environment).
2. Turn on the light to check whether the UVLED lamp is irradiated according to the set power, if it is abnormal, stop working, contact the staff for inspection, or contact the manufacturer.
3. The equipment should be maintained for one month, and the glass of UVLED lamp should be inspected to check whether it is polluted, whether the UV LED lamp is aging, etc.

7. Precautions

1. Please make sure that the power cord is in good contact and the ground wire is reliably grounded!
2. Please ensure that the working voltage of the oven is stable and normal!
3. Mismatched power frequency will cause damage to the machine!
4. This product is industrial equipment, non-professional people do not disassemble the machine!



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