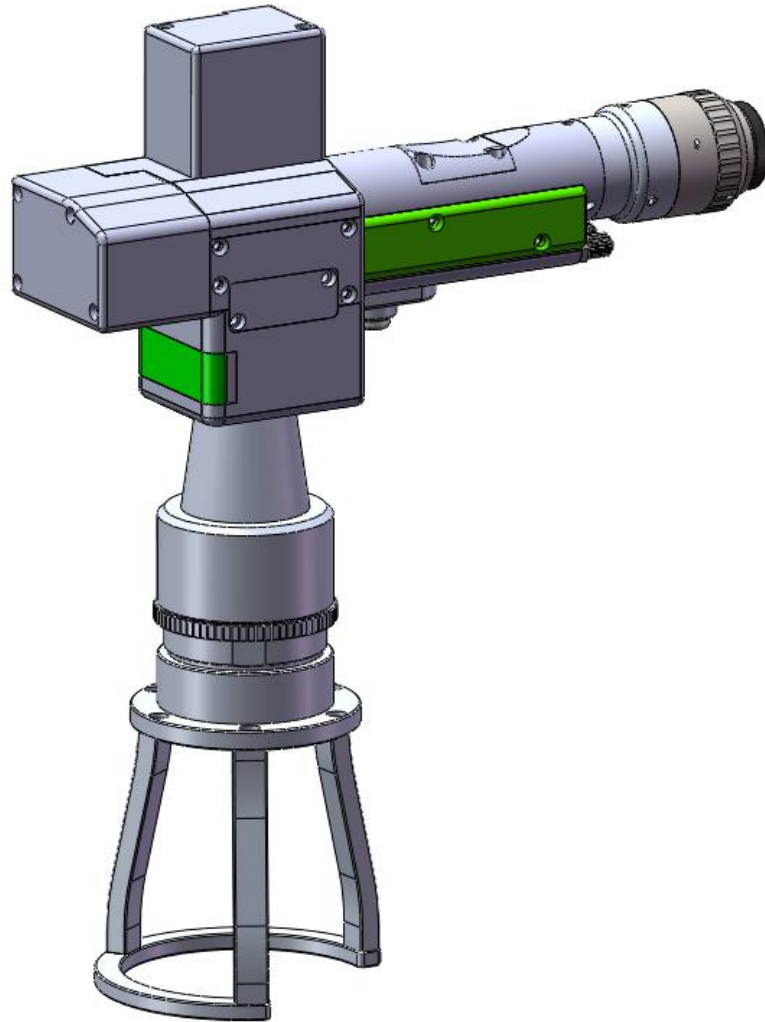


Shenzhen RelFar Intelligent Technology Co., Ltd.
FWH30-TD10A-V4 Intelligent pipe welding
head



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Foreword

Thank you for choosing our products!

To enable you to have an overall understanding of our company, there is a detailed introduction regarding features, structural features, technical parameters, instructions for use and maintenance of the product in the Manual. Before using this product, please read this Manual carefully, which will help you to use it better.

Due to constant update of product functions, the product you received may differ from the description in the Manual. We hereby express our deep sorry for this matter! During use, in case of any question, please timely call us for consultation, and we will offer dedicated service to you wholeheartedly.

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Contents

Chapter I Overview	4
1.1 Product parameter	4
1.2 Precautions	4
Chapter II Structural Characteristics	5
2.1 Product structure	5
Chapter III Product Installation	6
3.1 Pipe connection	6
3.2 Optical fiber input installation	8
Chapter IV Maintenance	10
4.1 Structure of optics lens	10
4.2 Cleaning of optics lens	10
4.3 Disassembly and assembly of optics lens	12
4.3.1 Disassembly and assembly of collimation lens	12
4.3.2 Disassembly and assembly of focus lens	13
4.3.3 Disassembly and assembly of protective glass	15
Chapter V Laser Cleaning System	错误！未定义书签。
5.1 Installation dimension withdrawal for product	错误！未定义书签。
5.1.1 Installation dimension of touch screen	错误！未定义书签。
5.1.2 Installation dimension of main board	错误！未定义书签。
Chapter VI Electrical	16
6.1 Packing list	18
6.2 System wiring	错误！未定义书签。
6.3 CN5 power supply interface	错误！未定义书签。
6.4 CN1 wire feeder interface	错误！未定义书签。
6.5 CN2 laser interface	错误！未定义书签。
6.6 CN3 temperature sensor interface	错误！未定义书签。
6.7 HMI touch screen interface	错误！未定义书签。
6.8 CN4 reserved serial interface	错误！未定义书签。
6.11 CN8 common output interface	错误！未定义书签。
6.12 CN9 common input interface 2	错误！未定义书签。
6.13 Galvanometer interface	错误！未定义书签。
Chapter VII Introduction to HMI Operation	26
7.1 Introduction to HMI function	26
7.2 System parameter setting	错误！未定义书签。
7.3 Equipment parameters	错误！未定义书签。
7.4 Alarm message	错误！未定义书签。
Chapter VIII Monitoring and Protection Device	31
8.1 Temperature parameter setting of protective glass	31
8.2 Bluetooth APP monitoring	32

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Chapter I Overview

1.1 Product parameter

Name	Intelligent pipe welding head		
Type	FWH30-TD10A-V4		
Fiber interface	QBH		
Wavelength scope	1,070±20nm		
Rated Power	≤3,000W		
Collimation focal length	50mm		
Focus focal length	200mm		
Scanning speed	20,000mm/s		
Scanning range	Φ65mm	L 45mm* W 45mm	L 65mm
Scanning type	○	□	—
Auxiliary pressure	≥0.5~0.8Mpa		
Effective clear aperture	Φ22		
Weight	1.26Kg		

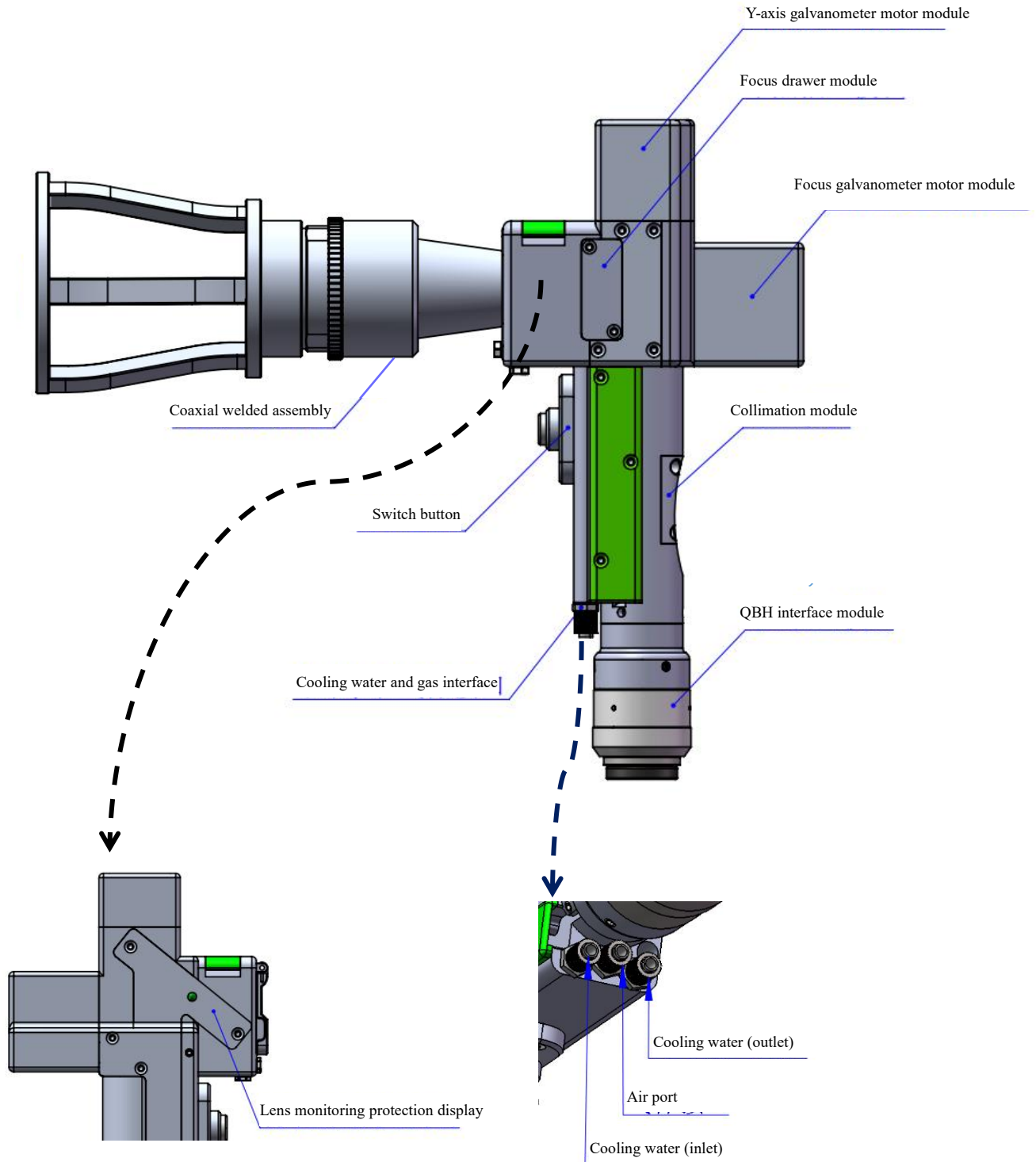
1.2 Precautions

※ To ensure personal safety, wear the special fiber laser protective glasses before operation.

※ It is necessary to keep the product clean and prevent the cooling liquid, condensate water or other foreign matter from intruding into the cavity, or the functional contamination and functional impact of related parts will be incurred.

Chapter II Structural Characteristics

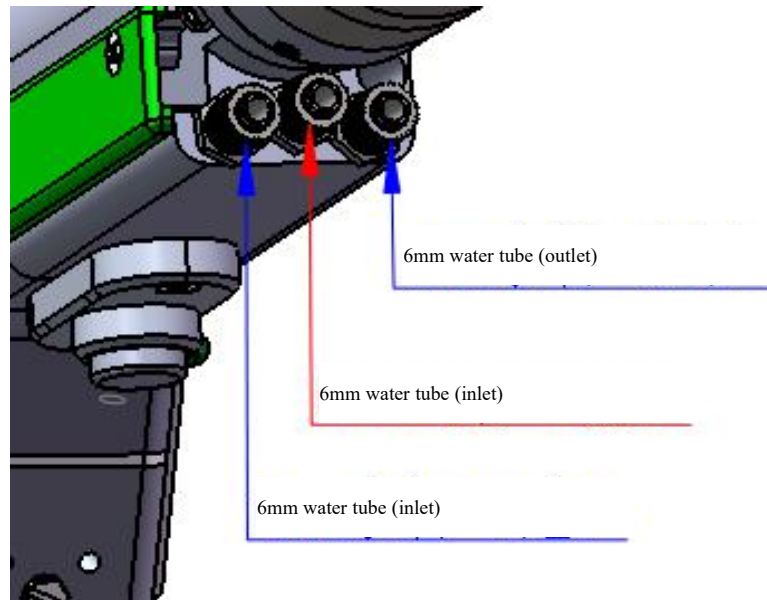
2.1 Product structure



Chapter III Product Installation

3.1 Pipe connection

Cooling water circuit and auxiliary protective gas connection



Connection of cooling water and shielding gas and usage requirements:

Notes: Regularly used gases: Compressed air (oil-water filtration required)

Regularly used gases are: argon, nitrogen and compressed air (oil-water filtration required).

3.1.1 Cooling water: The 6mm air tube is connected. The main function is that the excess heat is taken away by cooling through the internal structural member water route when the heat is produced by the light path in the cavity to ensure the cleaning performance. The series connection of cooling water

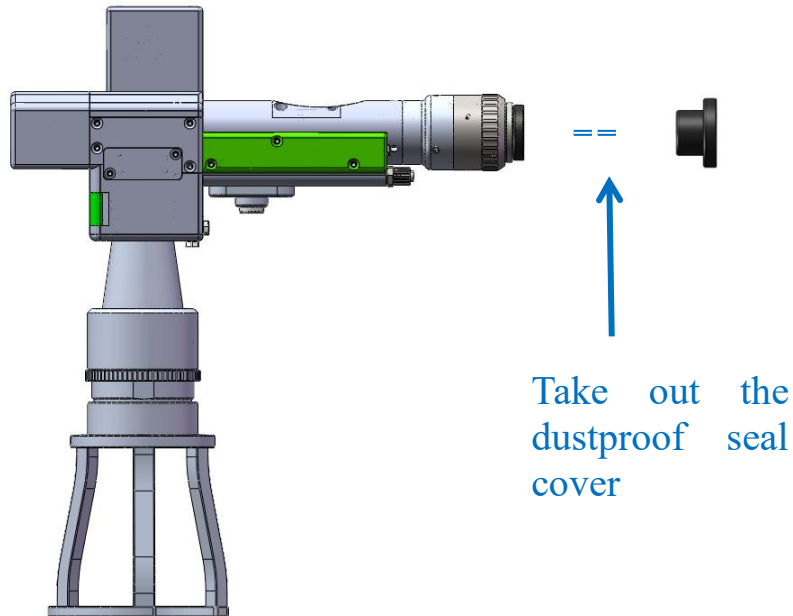
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pipeline is required, with one-in and one-out water circulation connected.

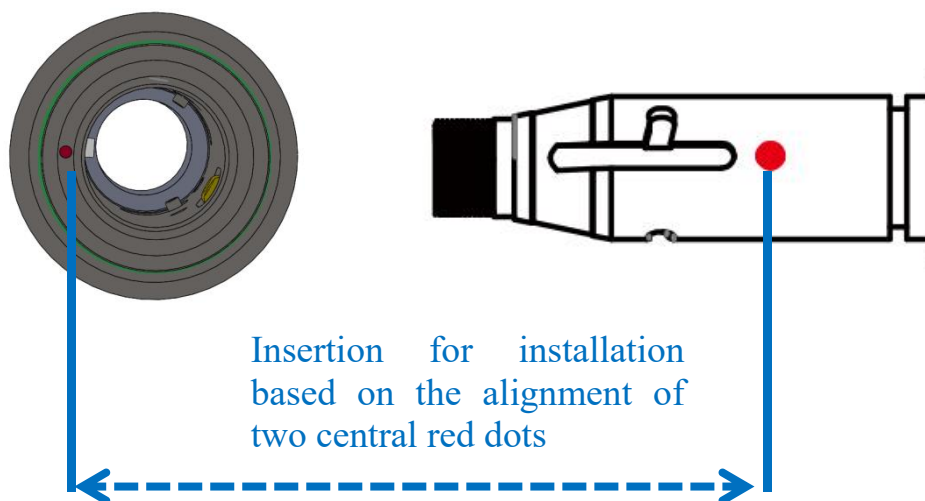
3.1.2 Maintained gas: The 6mm air tube is connected for butt welding gas protection, with input pressure $\geq 0.5 \sim 0.8 \text{MPa}$.

3.2 Optical fiber input installation

※ The QBH is a horizontal arrangement to take out the dustproof seal cover.

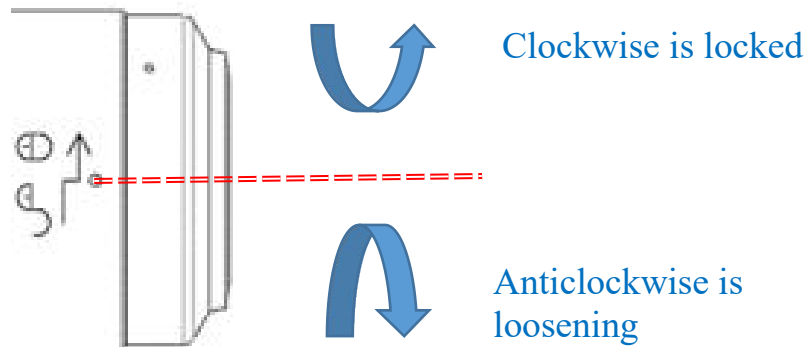


※ Align the red dot on the fiber optic head with the QBH red dot, and slowly insert the fiber optic head into the QBH.



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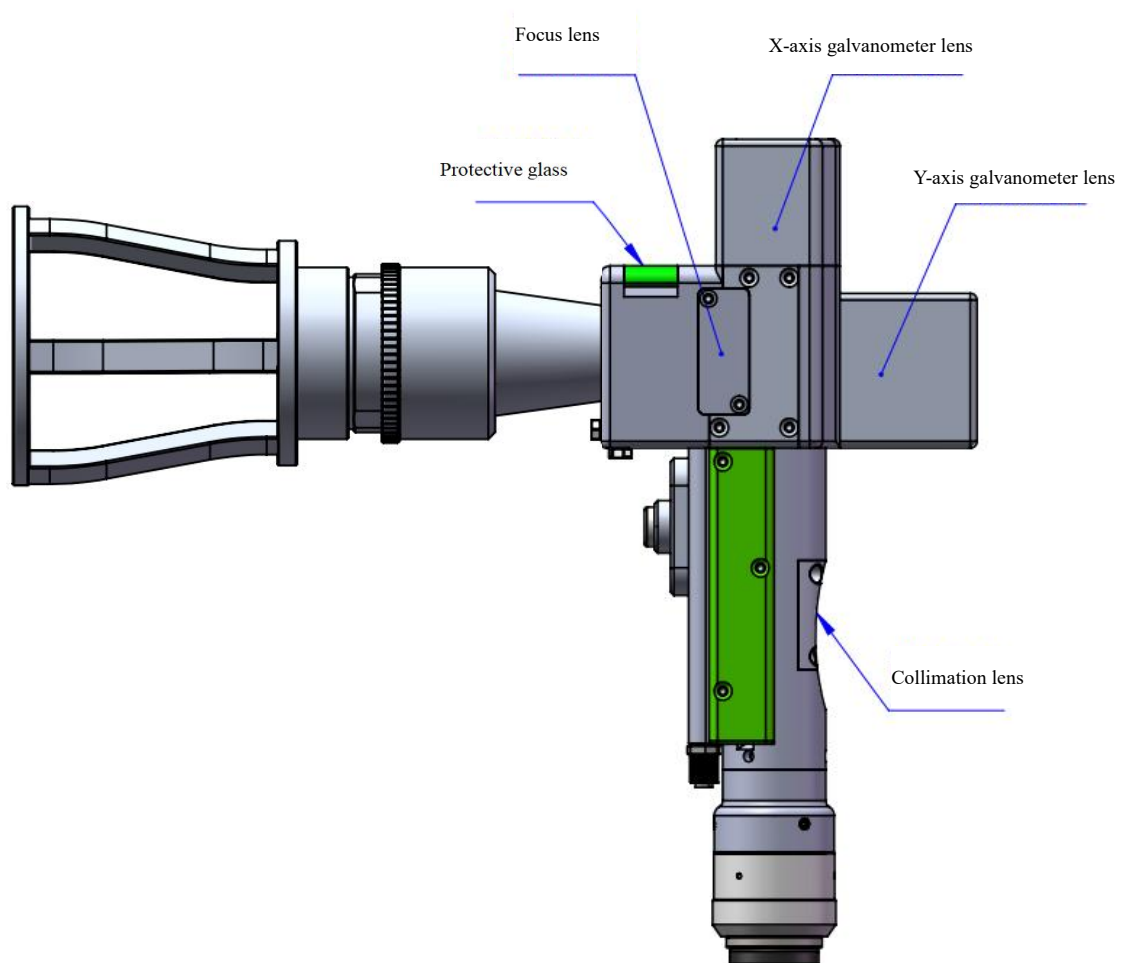
※ The QHB is screwed to the locking state: Rotate it to the limiting position clockwise (hearing the "click"), lift up the rotating mantle, and clockwise rotate the mantle until the head of optical fiber is compressed.



Chapter IV Maintenance

4.1 Structure of optics lens

※ The assembly is completed in the dust-free plant at the time of replacement of parts. In principle, except for the front-end first protective glass can be disassembled and assembled, other modules are forbidden to be dismantled. If it is necessary to check the collimation lens, focus lens and galvanometer lens, the product shall be put into a clean environment for disassembly.



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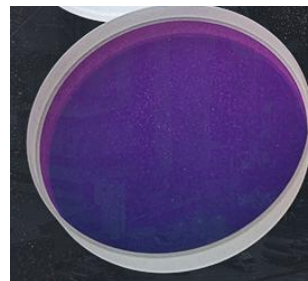
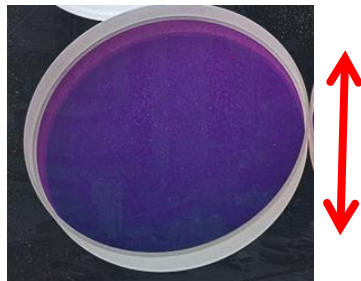
4.2 Cleaning of optics lens

Tool: dust-free gloves or dust-free fingertips, dust-free cotton swab, isopropyl alcohol and canned dry pure compressed air.

Spray the isopropyl alcohol onto the dust-free cotton swab, make the lens face your eyes, gently pinch the side edge of the lens with the thumb and forefinger of your left hand, wipe the front and back of the lens in one direction from left to right or from top to bottom with dust-free cotton swab held in the right hand (remember not to wipe the lens back and forth to avoid the second contamination), and blow the surface of the lens with dry pure compressed air to ensure there is no dust on the lens.

Tool: 2mm inner hexagon wrench, special fixture wrench, clean cotton swab and alcohol.

The disassembly of lens should be operated with hand wearing dust-free gloves or fingertips in clean environment.



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4.3 Disassembly and assembly of optics lens

4.3.1 Disassembly and assembly of collimation lens

Tools: 2mm inner-hexagon wrench, dust-free cotton swab, alcohol.

※ The disassembly and assembly shall be completed in a clean place. When the lens are dismounted, the dust-free gloves or dust-free fingerstall.

※ Disassembly and assembly steps:

Step 1: Clean up all the dust on the surface of the laser head firstly.

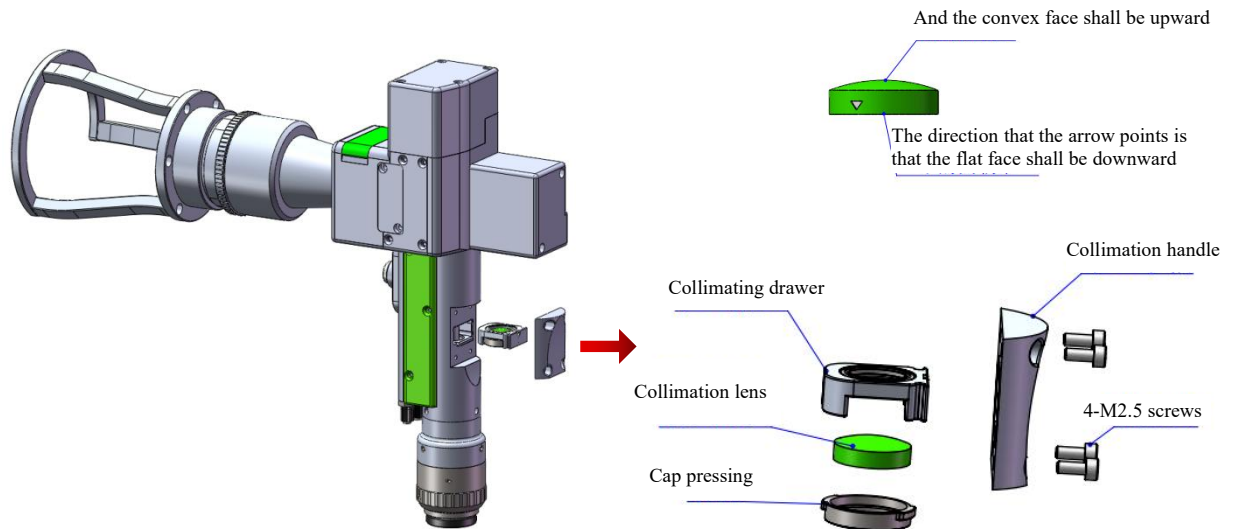
Step 2: Loosen the 4-M2.5*6 screw in the figure with 2mm inner-hexagon wrench.

Step 3: Take out the collimating drawer module and seal the port with textured paper to prevent the dust from entering the cavity.

Step 4: When the two bosses are aligned with the opening slot after the gland is rotated anticlockwise, remove them upward and replace the lens. (Note that the orientation of lens installation can be divided into plane and convex surface. After disassembly, record it; otherwise, the optical path will be affected.)

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Notes: The drawer gap shall be installed upwards.



4.3.2 Disassembly and assembly of focus lens

Tools: 2mm inner-hexagon wrench, dust-free cotton swab, alcohol

※ The disassembly and assembly shall be completed in a clean place. When the lens are dismounted, the dust-free gloves or dust-free fingerstall.

※ Disassembly and assembly steps:

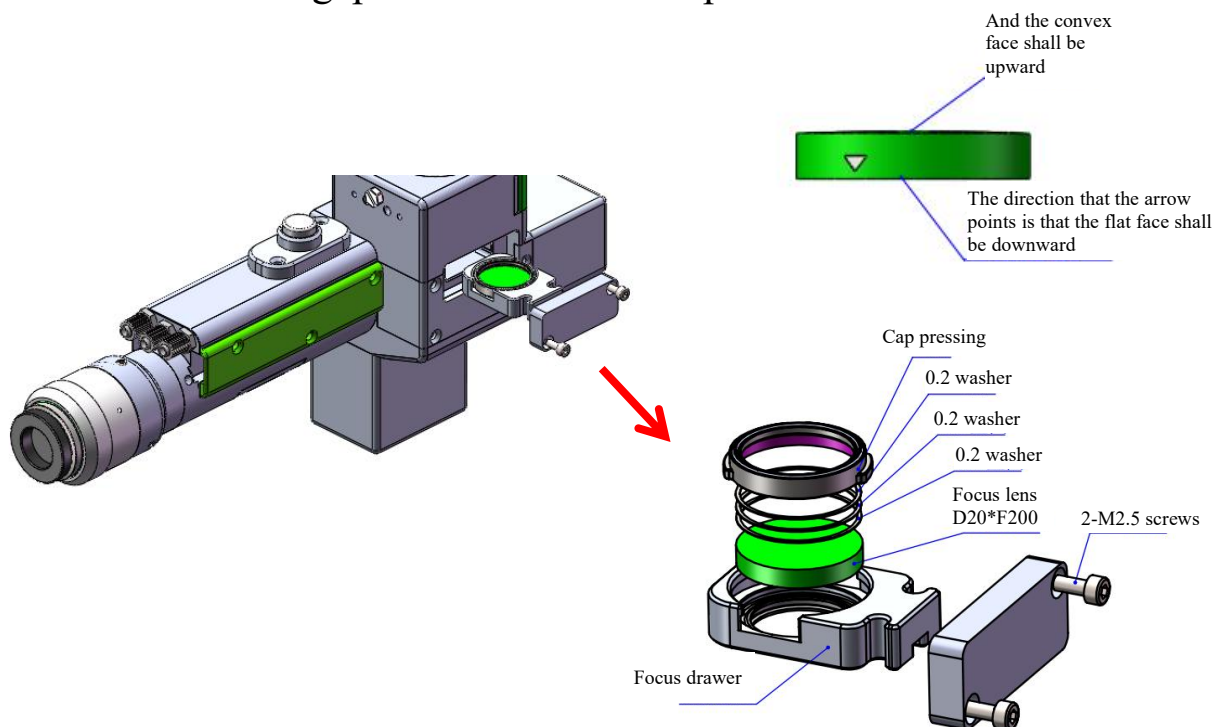
Step 1: Loosen lateral 2-M2.5 screws.

Step 2: Remove the focus drawer assembly horizontally and seal the exposed sealing surface of the cavity with textured paper to prevent dust from entering.

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Step 3: When the two bosses are aligned with the opening slot after the gland is rotated anticlockwise, remove them upward and replace the lens. (Note that the orientation of lens installation can be divided into plane and convex surface. After disassembly, record it; otherwise, the optical path will be affected.)

Notes: The drawer gap shall be installed upwards.



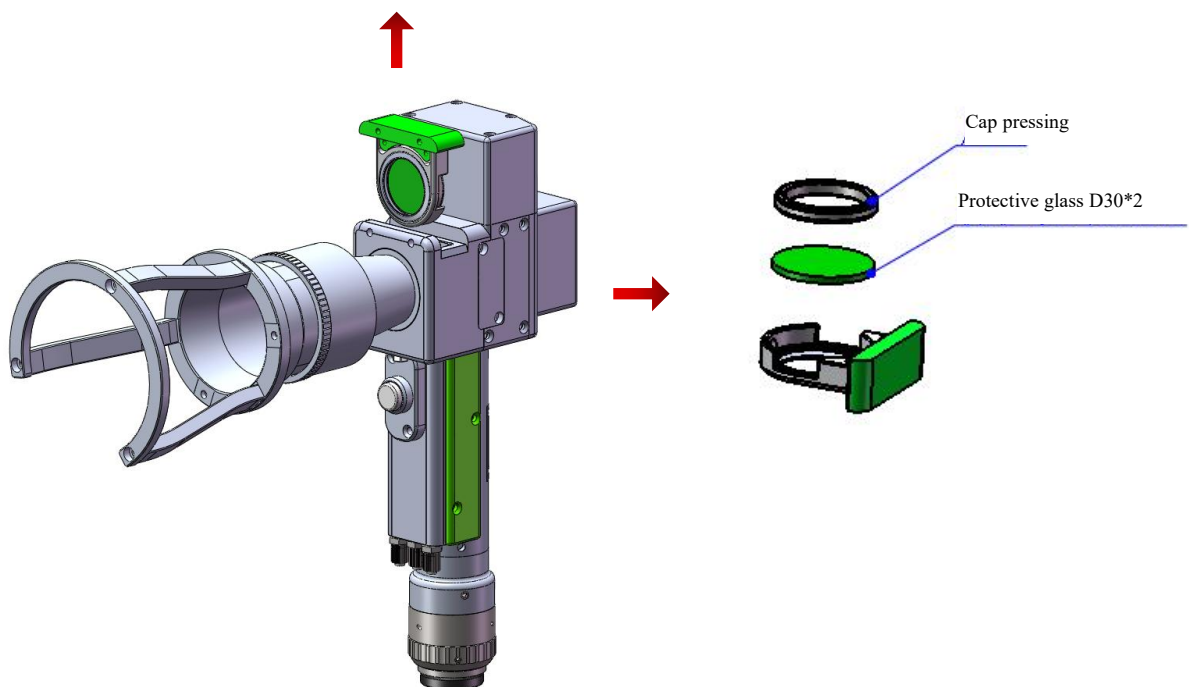
4.3.3 Disassembly and assembly of protective glass

※ The disassembly and assembly shall be completed in a clean place. When the lens are dismounted, the dust-free gloves or dust-free fingerstall.

Change the protective lens

The first step is to take both sides of the drawer in hand and pull out the protective drawer seat upward. After taking it out, seal the window exposed on the cavity with textured paper to prevent dust from entering.

Step II, when the two bosses are aligned with the opening slot after the gland is rotated anticlockwise, remove them upward and replace the lens.



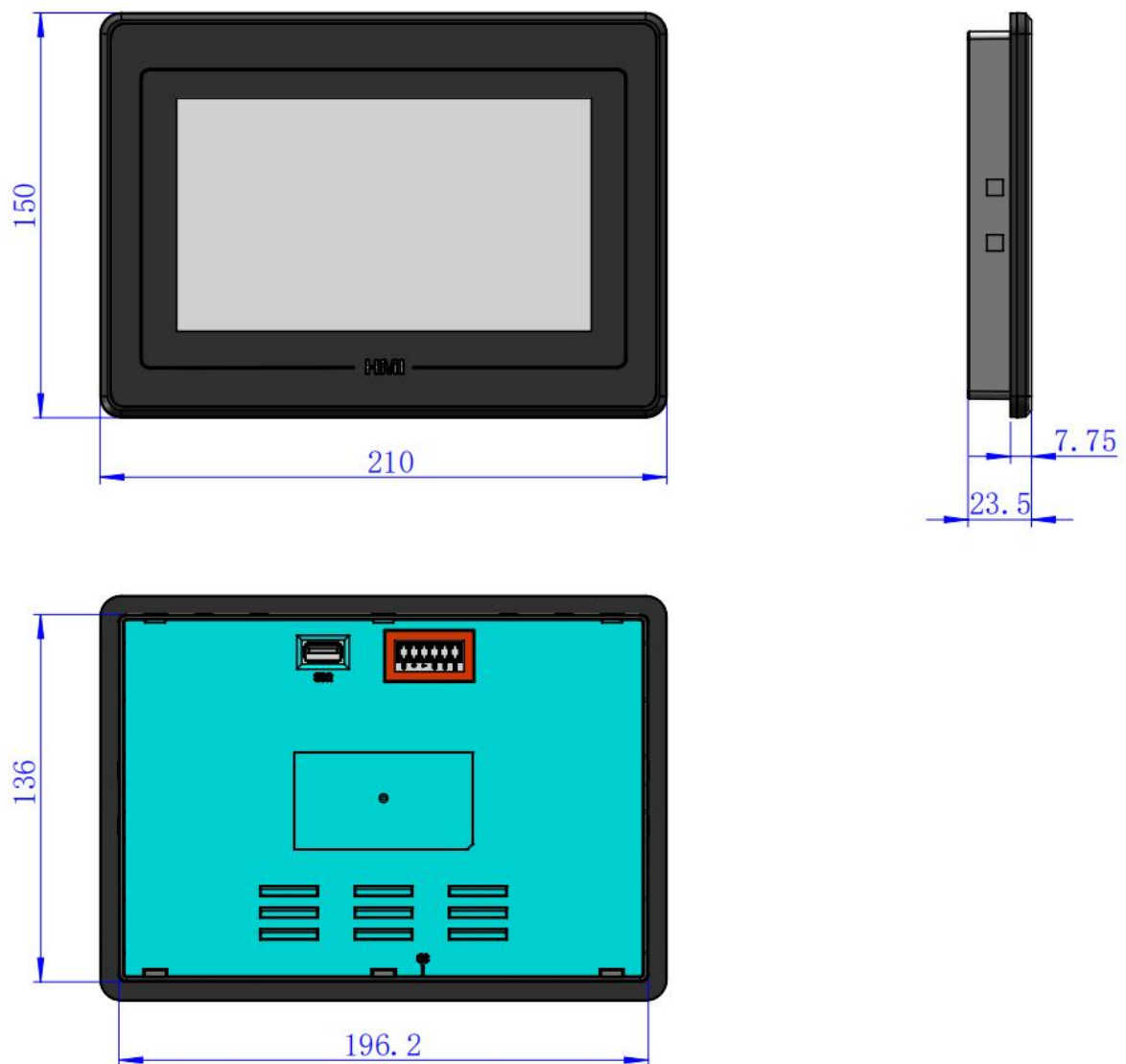
Chapter V Laser Cleaning System

5.1 Product dimension figure

5.1.1 Installation dimension of touch screen

External dimensions: (210*150*23.5) mm

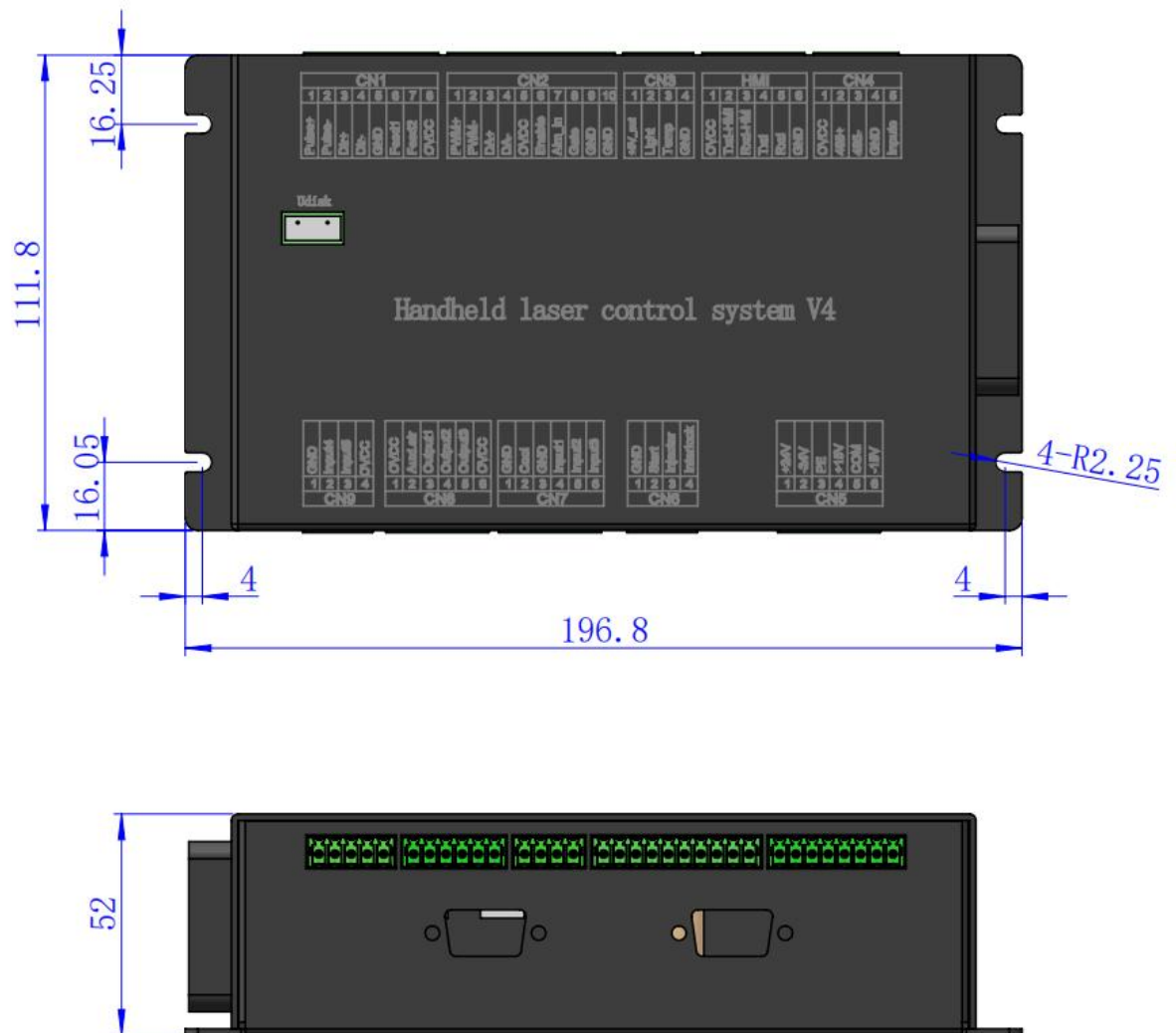
The installation dimensions of the touch screen are as shown in the following figure.:



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5.1.2 Installation dimension of main board

Overall dimensions: (196.8 * 111.8 * 52) mm



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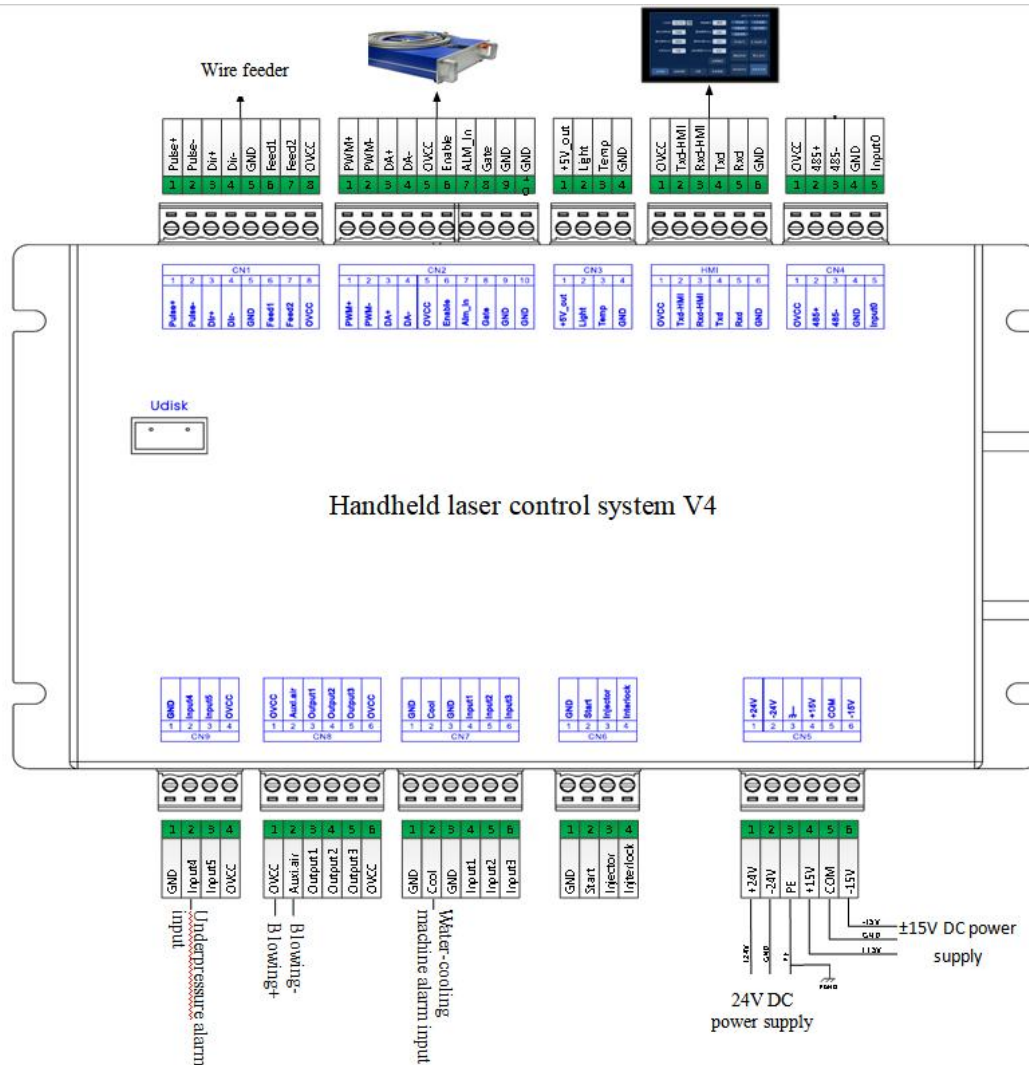
Chapter VI Electrical

6.1 Packing list

List				
Serial Number	Name	Figure	Quantity	Remarks
1	Intelligent pipe welding head		1PCS	
2	24V power pack		1PCS	
3	15V power pack		1PCS	
4	Display screen Display screen connecting wire		1PCS	
			1PCS	
5	Handheld laser welding system V4		1PCS	
6	Bluetooth antenna		1PCS	
7	Protective glass		4PCS	
8	Energy storage guide module		1PCS	

6.2 System wiring

The following figure is a schematic diagram for wiring of the whole system. Refer to the schematic diagram for system wiring. Refer to relevant chapters for detailed interface definition.



Note:
Don't connect the reserved pin in the mainboard.

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6.3 CN5 power supply interface

The power supply interface all into 6 PIN green terminal, providing a power interface for mainboard and galvanometer externally, with voltage: DC 24V (DC 24V) and DC $\pm 15V$ (DC $\pm 15V$).

Table 6.3.1 shows the definition of CN5 power supply interface.

Table 6.3.1

Pin	Signal	Definition	Instruction
1	24V+	Power supply input	+24V external power input and power supply output current: above 2A
2	24V-	Power reference ground	—
3	PGND	External shielding ground	Generally connecting to ground or enclosure
4	+15V	Power supply input	+15V external power input and power supply output current: above 2A
5	GND	Power reference ground	—
6	-15V	Power supply input	-15V external power input and power supply output current: above 2A

6.4 CN1 wire feeder interface

The interface CN1 of the wire feeding machine is an 8-pin green terminal, which supports both motor wire feeding and IO wire feeding. Table 6.4.1 provides the definition of the wire feeding machine interface.

Table 6.4.1

Pin	Signal	Definition	Instruction
1	Pulse+	Motor wire feed pulse + interface	The motor wire feed is used, and the driver PUL+ is connected
2	Pulse-	Motor wire feed pulse - interface	Motor wire use, connected to drive PUL-
3	DIR+	Motor wire feed direction + interface	Motor wire wire, connected to driver Dir +
4	DIR-	Motor wire feed direction - interface	Motor wire used, connected to drive Dir-
5	GND	Reference ground	—

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6	Feed	Wire feed control interface	Used for automatic wire feed of IO control wire feeder
7	Backoff	Wire withdrawal control interface	Used for automatic wire withdrawal of IO control wire feeder
8	OVCC	+24V power output	Power supply, maximum output is 500mA

6.5 CN2 laser interface

The laser interface is a 8PIN green terminal. Table 6.5.1 shows the definition of laser interface.

Table 6.5.1

Pin	Signal	Definition	Instruction
1	PWM+	Modulated signal +	Duty cycle adjustable from 1% to 99%, 24V level
2	PWM-	Modulated signal-	Duty cycle adjustable from 1% to 99%, 24V level
3	DA	Simulated voltage output	0-10V analog voltage, used for adjusting the peak power of the laser
4	GND	Power reference ground	Generally, it connects to the laser control interface DA-
5	OVCC	+24V power output	Power supply, capable of delivering a maximum output of 500mA
6	Enable	Laser enable signal	24V voltage level, with high level as the valid state
7	Alarm_in	Laser failure alarm input	—
8	GATE	Red light indication signal	24V voltage level, with low level as the active state
9	GND	Signal reference ground	—
10	GND	Signal reference ground	—

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6.6 CN3 temperature sensor interface

The temperature sensor interface CN3 is a 4PIN green terminal. Table 6.6.1 shows the definition of temperature sensor. The user directly inserts the supporting connection line with terminal.

Table 6.6.1

Pin	Signal	Definition	Instruction
1	+5V_out	Sensor P interface	+5V power supply, maximum output is 500mA
2	Light	Sensor L interface	—
3	Temp	Sensor T interface	—
4	GND	Sensor G interface	—

6.7 HMI touch screen interface

The HMI interface is a 6PIN green terminal and power supply to and communication with HMI by the mainboard are performed via the port. Table 6.7.1 shows the definition of HMI interface.

Table 6.7.1

Pin	Signal	Definition	Instruction
1	OVCC	+24V power output, 500mA	Panel power supply
2	TXD_HMI	Connecting to the HMI sending end	Serial port communication TXD signal
3	RXD_HMI	Connecting to the HMI receiving end	Serial port communication RXD signal
4	TXD	Reserved communication interface	RS232 reserved communication interface
5	RXD	Reserved communication interface	RS232 reserved communication interface
4	GND	Power reference ground	—

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6.8 CN4 reserved serial port interface

CN4 reserved serial port interface is a 5-pin green terminal without wiring. Chart 6.8.1 shows the definition of CN4 interface.

Table 6.8.1

Pin	Signal	Definition	Description
1	OVCC	+24V power supply, 500mA	Power supply
2	485+	TXD signal	Serial communication TXD signal
3	485-	RXD signal	Serial communication RXD signal
4	GND	GND	—
5	Input0	Reserved input interface	

6.9 CN6 external start and interlock interface

The CN6 interface is a 4PIN green terminal. Table 6.9.1 shows the definition of CN6 interface.

Table 6.9.1

Pin	Signal	Definition	Instruction
1	GND	Reference ground	Generally connecting to the start button switch on the welding head-
2	Start	External start switch input	Generally connecting to the start button switch on the welding head+
3	Injector	Safety clamp signal input	The pin must be connected to the safety clamp and the safety clamp shall be clamped onto the metal material before welding.
4	Interlock	Safety lock signal input	The pin must be connected to the nozzle of the handheld head. The nozzle touches the metal material at the moment of welding.

6.10 CN7 general input interface 1

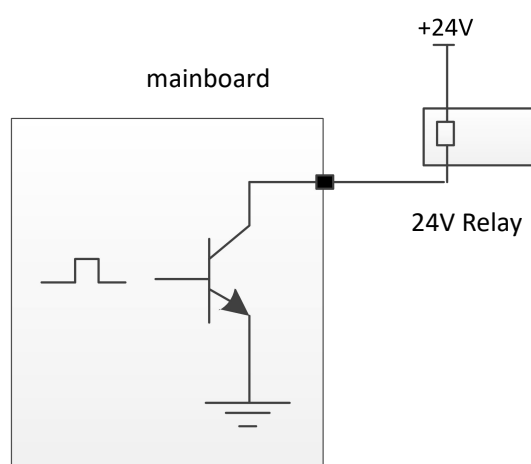
The CN7 interface is a 6PIN green terminal and of NPN type. Table 6.10.1 shows the definition of CN7 interface.

Table 6.10.1

Pin	Signal	Definition	Instruction
1	GND	Reference ground	—
2	Cool	Water-cooling machine alarm input	NPN type input
3	GND	Reference ground	—
4	Input1	Reserved	NPN type input
5	Input2	Reserved	NPN type input
6	Input3	Reserved	NPN type input

6.11 CN8 general output interface

The CN8 interface is a 6-pin green terminal. By using the OC output, it can directly drive relays, with a maximum current of up to 500mA. The wiring diagram is shown in Table 6.11.1.



Output terminal relay wiring diagram

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Table 6.11.1

Pin	Signal	Definition	Instruction
1	OVCC	+24V power output	Power supply, capable of delivering a maximum output of 500mA
2	Auxi.air	shielding gas	Used for gas blowing control protection, it can directly drive the solenoid valve
3	Output1	retain	OC output, capable of driving relays
4	Output2	retain	OC output, capable of driving relays
5	Output3	retain	OC output, capable of driving relays
6	OVCC	+24V power output	Power supply, capable of delivering a maximum output of 500mA

6.12 CN9 common input interface 2

The CN9 interface is a 4-pin green terminal of NPN type. The definition of the CN9 interface is given in Table 6.12.1.

Table 6.12.1

Pin	Signal	Definition	Instruction
1	GND	Reference ground	—
2	Input4	Underpressure alarm input	
3	Input5	Reserved	—
4	OVCC	+24V power output	Power supply, maximum output is 500mA

6.13 Galvanometer interface

The system provides two DB9 galvanometer interfaces, one DB9 male connector and one DB9 female connector.

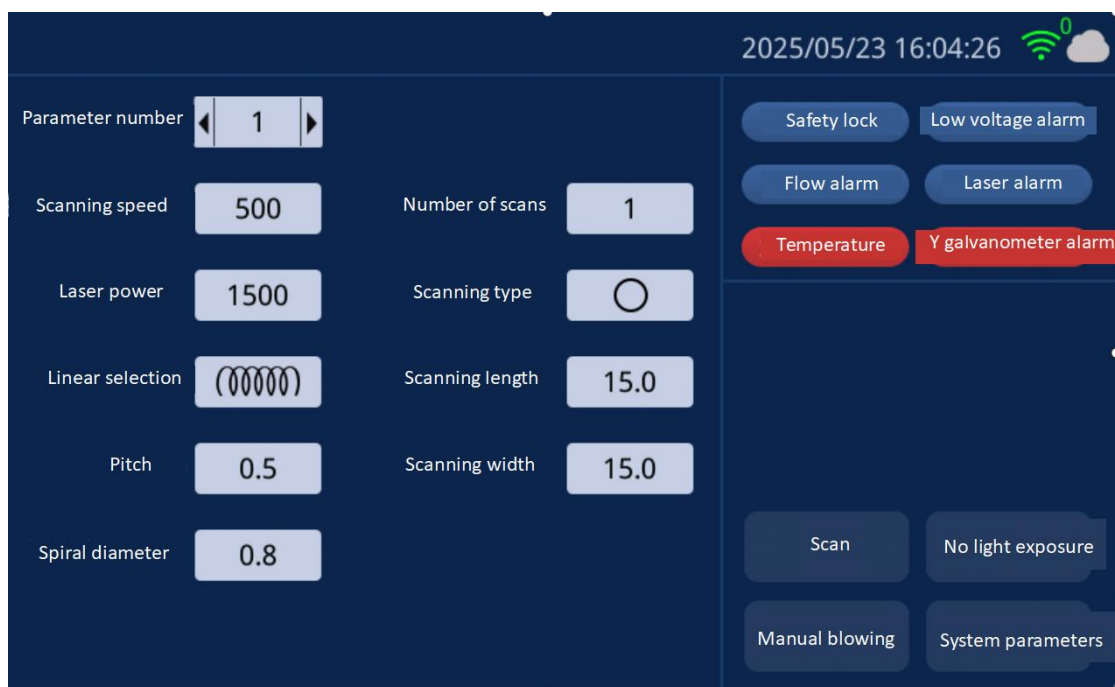
Chapter VII Introduction to HMI Operation

7.1 Introduction to HMI function

As for the handheld laser welding system operation panel (hereinafter referred to as "HMI"), the 7-inch configuration TFT touch screen is used, with beautiful interface and convenient operation. The laser-related parameters can be set, respectively and the real-time display of input/output IO state, alarm information and running state can be realized on the main interface.

Refer to the following figure for the HMI main interface.

Main interface of HMI



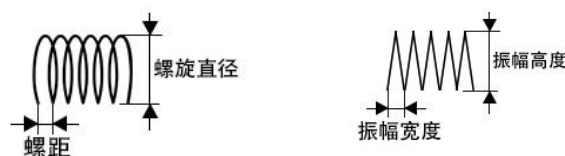
[Scanning parameter]: Used to set the parameters related to the scanning processing of the galvanometer.

Parameter number: The system supports the storage of 9 groups of parameters.

Scanning speed: Used to set the scanning speed of the galvanometer.

Laser power: Set the output light power during welding.

Linear selection: Set the variant linear type, supporting three types of linearity: spiral, sawtooth, and point.



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Pitch: The pitch when the linearity is set to helical. The linearity is a dedicated parameter for the helical mode.

Spiral diameter: The spiral diameter when the linearity is set to spiral, and the linearity is the dedicated parameter for the spiral mode.

The number of scans: When the start button is continuously pressed to emit light, the maximum number of scans before the light emission stops. If it is ∞ times, it will loop infinitely until the start button is released.

Scan type: Set the basic scan shape, supporting three shapes: circle, rectangle, and straight line.

Scanning length: It is used to set the length of the laser scanning in the X direction.

Scanning width: It is used to set the width in the Y direction of the laser scanning.

【 Alarm Status Area 】 : Once the alarm signal is enabled, it will display in real time the low pressure alarm of the protective gas, the cold water flow alarm, the laser alarm, the temperature alarm, and the galvanometer status. When the safety lock is enabled, the safety lock status will be displayed in real time. When the alarm signal is not triggered, the corresponding alarm state is in blue. When an alarm occurs, the corresponding alarm icon will flash alternately in red and blue.

【 System Parameters 】 : Click to enter the system Settings page and modify the system function parameters.

【 Scanning 】 : Scanning can control the on/off of the red light indicator of the laser.

【 Allow/Prohibit | Laser Emission 】 : This button can be used to allow or prohibit laser emission. When light emission is allowed, pressing the start light emission button will emit laser for welding. When the light output is prohibited, pressing the start light output button will not result in laser welding.

【 Manual Blowing 】 : Clicking on the manual blowing area will continue the blowing process. Clicking on it again will turn off the blowing.

7.2 HMI operation introduction

System parameter Settings: After parameter modifications, they need to be saved to take effect.

Early vent time: When starting the processing, a delayed vent can be set. When the external start button is pressed, air is blown and delayed for a period of time, and

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then the laser starts to come out.

Delayed gas shut-off time: When processing stops, a delayed gas shut-off can be set. When processing is stopped, first stop the laser output, delay for a period of time, and then stop the air blowing.

Opening power: It is used to set the initial power of the laser, which is a percentage of the welding power.

Progressive opening time: Controls the time it takes for the laser's output to slowly rise to the set power.

Light-off power: It is used to set the light-off power of the laser, which is a percentage of the welding power.

Progressive turn-off time: The time used to control the slow decrease of the laser's turn-off power.

Language: Used for switching languages.

The length of the early deceleration: Control the distance of the early deceleration in the gradual time of turning off the light.

Laser frequency: Used to set the PWM frequency of the laser.

Duty cycle: Set the duty cycle of the PWM modulation signal, with the setting range being 1% ~ 100%.

(" >>" "<<", switch the parameters within the display interface)

Double-click light output enable: Select the light output mode and whether to double-click the button. If not enabled, click the button

Enable security lock: Select whether to perform security lock protection.

Proportional coefficient: It is used to set the maximum range of the X-axis and Y-axis of the galvanometer. This parameter needs to be consistent with the actual range of the galvanometer; otherwise, the actual light output length and width may not be accurate. The default parameter does not need to be set.

Field lens type: Reserved for switching between different field lenses. Reserved parameters do not need to be set.

【 Device Parameters 】 : It is used to switch to the device parameters page

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and requires entering the password 666888. Pulse on time: the time to start light emission in pulse mode

【 Authorization 】 : Perform the operation of reading and decrypting the authorization code, as well as display the relevant information of the panel and motherboard version number.

【 Center Offset 】 : Used for setting the center offset of red light.

7.3 Equipment Parameters

【 Device Parameters 】 : It is used to set the maximum and minimum values of the restricted parameters. These parameters will restrict the laser parameters. Password input is required to enter. After parameter modification, it needs to be saved to take effect.

Maximum scanning speed: Used to set the maximum galvanometer swing speed

Minimum scanning speed: Used to set the minimum galvanometer swing speed

Maximum scan length: Used to set the maximum scan length allowed by the device

Minimum scan length: Used to set the maximum scan length allowed by the device

Rated power of laser: It is used to set the rated power of the laser

Maximum laser frequency: Used to set the maximum laser frequency

Minimum laser frequency: Used to set the minimum laser frequency

Laser alarm enable: It is used to set whether to enable laser alarm. When enabled, a laser alarm prompt will be generated when the laser alarm input triggers the alarm.

Laser alarm level: Used to set the logic of the laser alarm trigger level.

Water cooling machine alarm enable: It is used to set whether to enable the water cooling machine alarm. When enabled, when the water cooling machine alarm input triggers the alarm, an alarm prompt for the water cooling machine will be generated.

Alarm level of water cooler: It is used to set the logic of the alarm trigger level

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of the water cooler.

Under-voltage alarm enable: It is used to set whether to enable the gas under-voltage alarm. When enabled, a under-voltage alarm prompt will be generated when the under-voltage alarm input triggers the alarm.

Under-voltage alarm level: Used to set the logic of the under-voltage alarm trigger level.

Temperature alarm enable: Enable the lens temperature alarm. When the temperature exceeds the limit value, an alarm signal will be generated.

Temperature alarm limit value: Lens temperature limit value.

7.4 Alarm Information

The alarm information includes: safety clip alarm and machine alarm.

The safety clamp alarm is caused by the safety clamp not being reliably connected to the cleaning head.

The machine alarms include three types: laser alarm, water-cooling machine alarm and low voltage alarm. In the alarm information interface, multiple alarm messages can be displayed, with a maximum of 3 pages. They can be switched between the previous page and the next page.

When the alarm is triggered, the laser output will be stopped at this time, the galvanometer will stop moving, and the corresponding alarm information will be prompted. Users can check the relevant hardware problems and clear the alarm according to the alarm prompt. After the alarm is cleared, the alarm record of the machine's alarm will still exist in the alarm information. At this time, you can manually clear the alarm by entering the alarm information interface. If the alarm is not cleared, it will continue to prompt when the alarm is manually cleared.

(Gun head light emission control logic: Click the switch button to preview the graphic with red light. After clicking, continuously double-click the switch button to emit laser.)

Chapter 8 Monitoring Protection Device

8.1 Temperature parameter setting of Protective Lens

[Home Page]→[System Parameter]→[Equipment Parameter]→[Input Password: 666888] →[next page]→ [lens temperature alarm limit value].

It is suggested to set the set value of lens temperature to 50. After the lens temperature exceeds the set value, the alarm caution will arise on the home page and the display light on the side of the handheld plumb joint will turn to red.

2025/05/23 16:05:00

Lens temperature alarm enabling	Disabling	Laser alarm enabling	Disabling
Lens temperature alarm limit value	50	Laser alarm level	Low level
Cooling-water machine alarm enabling	Disabling	Underpressure alarm enabling	Disabling
Cooling-water machine alarm level	Low level	Underpressure alarm level	Low level
Accumulative time of laser emission	00:00:12	Clear	Restore factory settings
Accumulated boot time	01:44:57	Clear	

Previous page Return

Chapter 9 Introduction to the APP

9.1 Function Introduction

The RDWelder mobile APP is an application suitable for remote control of handheld welding products, supporting various types of product applications such as single pendulum welding, double pendulum welding, single pendulum cleaning, and double pendulum cleaning. Users can connect the board card through this APP to achieve the purpose of wireless connection control. It can effectively solve the problem of the processing station being far from the equipment and constantly traveling back and forth. It supports remote viewing of equipment status and parameter adjustment, facilitating equipment management and maintenance. The APP also has rich technical center resources. It is provided for customers to install and maintain equipment, review process data, assist in troubleshooting, and refer to application cases.

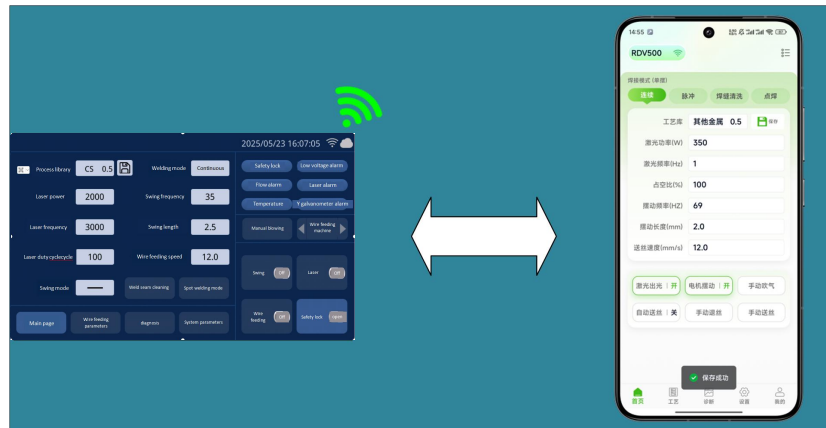
9.2 Equipment connection

9.2.1 Connection mode

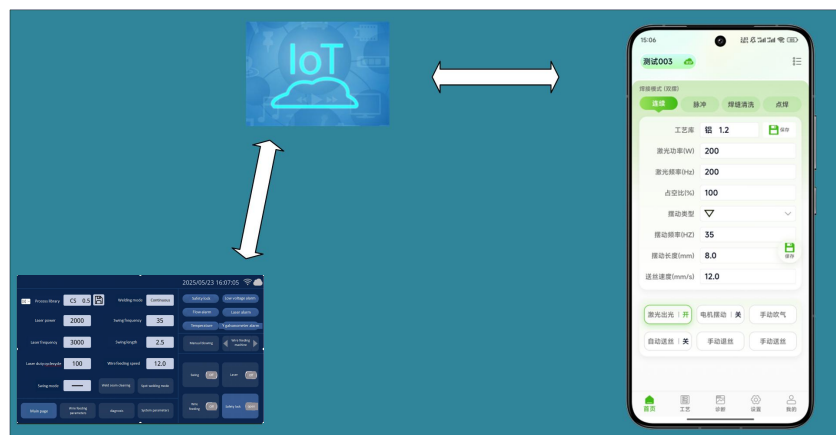
The handheld APP and control card support two connection modes: AP mode and STA mode.

- In AP mode, the APP is directly connected to the control card. The control card emits a WIFI hotspot signal. Customers can use mobile devices such as mobile phones to connect to the WIFI hotspot signal emitted by the control card. After the connection is completed, the board card can be controlled using the APP. Both the touchscreen and the APP use WIFI ICONS for status display.

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- In STA mode, the APP and the control card are connected to the cloud via the Internet. After setting the control card to STA mode, it is necessary to connect to WIFI to access the network. Access the server through traffic data to obtain the device status and perform operation control. Both the touchscreen and the APP use Internet of Things cloud ICONS for status display.



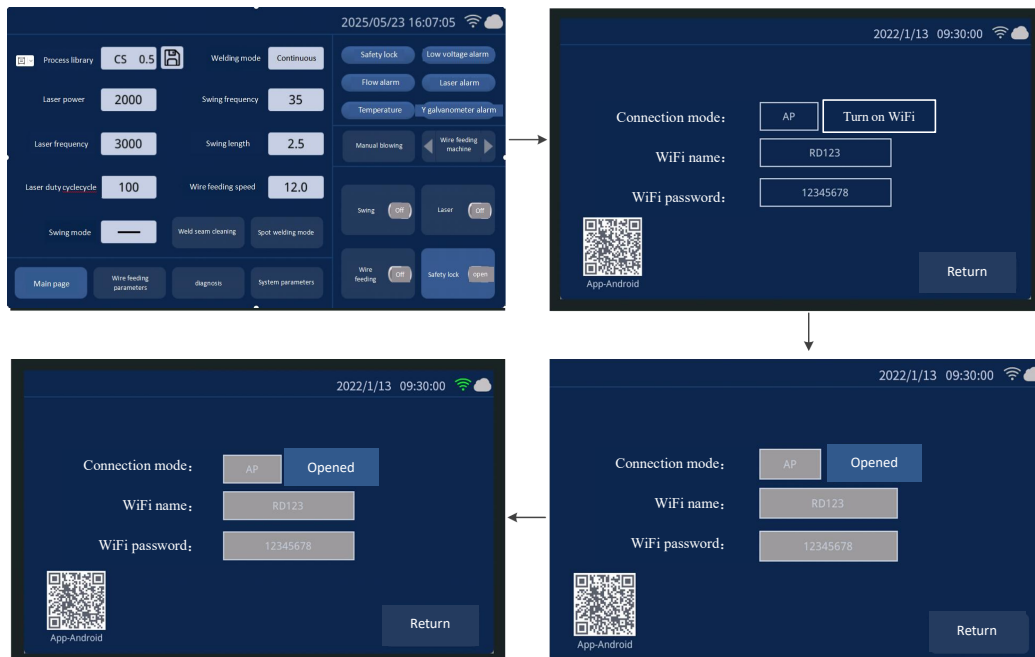
9.2.2 AP mode connection

Board card Settings:

- Click the upper right corner of the touch screen to enter the WIFI configuration page and configure the WIFI hotspot.
- Set the connection mode to AP and set the name and password of the WIFI hotspot. If the WIFI is turned on, you need to first click the < Turned On > button to turn off the WIFI. When the WIFI icon goes off, you will enter the configurable WIFI setting state.
- After the configuration is completed, click the < Turn on WIFI > button, and the system will turn on WIFI again.

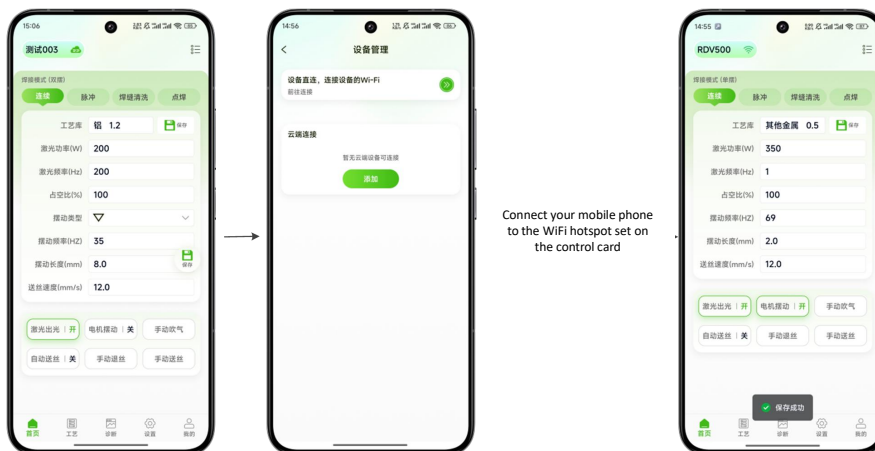
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- After the WIFI hotspot configuration is completed, the WIFI configuration mode will be turned off, the WIFI icon will light up, and the mobile phone APP can connect to the WIFI on the board card.



APP Settings:

- Click the icon on your mobile phone to launch the APP.
- The device connection status in the upper left corner of the motor enters the < Device Management > page.
- Select the direct connection of the device, enter the phone Settings page to set up the WIFI connection, and connect to the WIFI hotspot of the control card.
- After the connection is completed, you can enter the APP to check that the mobile APP has been connected to the device.



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9.2.3 STA mode connection

Board card Settings:

- Click the upper right corner of the touch screen to configure the WIFI hotspot and enter the WIFI configuration page.
- Set the connection mode to STA and connect to an external WIFI. If the WIFI is turned on, you need to first click the < Turned On > button to turn off the WIFI. When the WIFI icon goes off, you will enter the configurable WIFI setting state.
- After the configuration is completed, click the < Turn on WIFI> button, and the system will connect to an external WIFI.
- After the WIFI connection is completed, the WIFI configuration mode will be turned off, the remote icon will light up, and the device will be in an online state.



APP Settings:

Click the icon on your mobile phone to launch the APP.

The device connection status in the upper left corner of the motor enters the < Device Management > page.

You can view the added cloud devices on the device management page. The highlighted cloud logo indicates that the device is online, while the grayish-white status indicates that it is offline.

After selecting the online device, click "Connect" to complete the device connection.

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Note: The STA mode requires users to register an account and then add the device serial number to their personal account before remote management can be carried out.

9.3 APP download method

Android:



https://mantisolo.com/versionQrCode.html?qrform=6a7a10d4f48d72e6e02b0b9af8e3bc10&company_code=003&platform=APP

Apple: Search for "RDWelder" in the App store

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9.4 APP function



The RDWelder mobile APP supports single pendulum welding, single pendulum cleaning, double pendulum welding and double pendulum cleaning. After the APP is connected to the board card, it can automatically adapt to the current processing mode of the control card.

Welding mode:

[Home Page] : Supports management of process parameters, processing status, blowing adjustment, and wire feeding control. The entry to < Technology Center > is located in the upper right corner.

【 Process 】 : Welding process library, where users can manage process parameters.

【 Diagnosis 】 : Manage the status of the equipment, support the query of alarm records, and enable central correction.

【 Settings 】 : Go to the parameter setting page to manage ordinary setting parameters. You can enter the authorization management. After entering the password, you can manage advanced parameters.

[My] : Personal user page for managing personal information.

Cleaning mode:

[Home Page] : Supports management of process parameters, processing status, and blowing adjustment. The entry to < Technology Center > is located in the upper right corner.

【 Diagnosis 】 : Manage the status of the equipment, support the query of alarm records, and enable central correction.

【 Settings 】 : Go to the parameter setting page to manage ordinary setting parameters. You can enter the authorization management. After entering the password, you can manage advanced parameters.

[My] : Personal user page for managing personal information. Style.

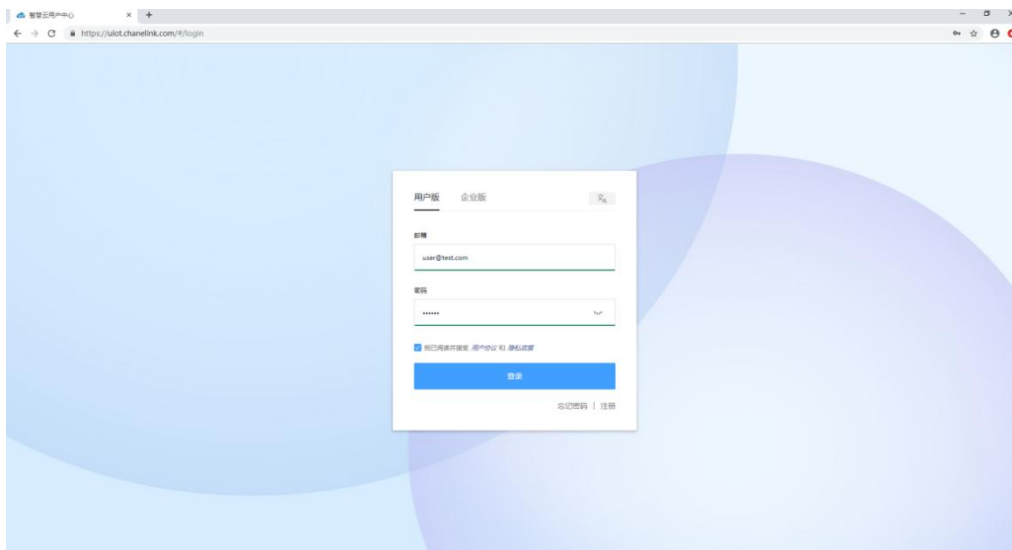
Chapter 10 Introduction to Wisdom Cloud

10.1 Function Introduction

The smart cloud system enables devices to access the Internet, allowing users to view the device status on the web page for remote management.

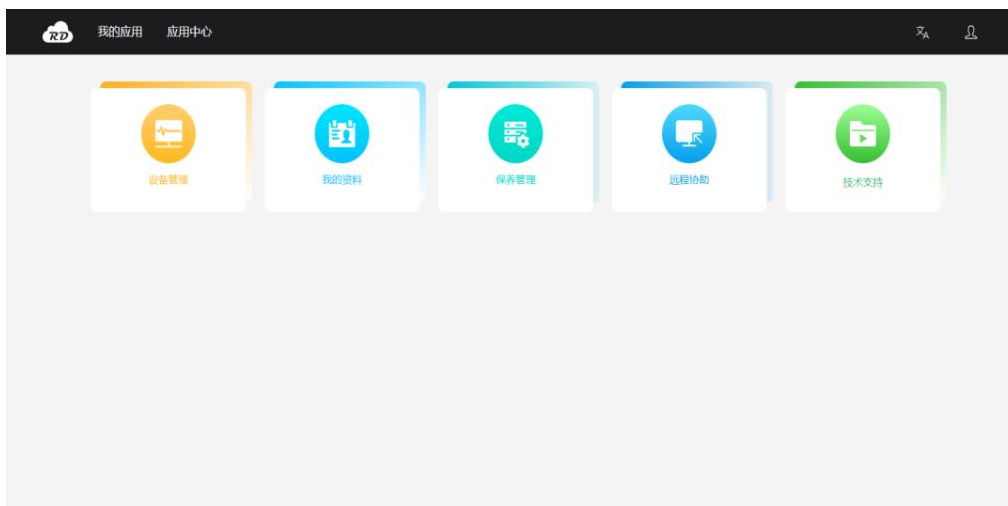
10.2 Smart Cloud Login

By visiting <https://fiot.chanelink.com/> address, see page client login page, the following figure, the user account login, new user registration, password can be recovered, and so on.



10.3 User Center

After successful login, you will be redirected to the home page of the User Center, as shown in the following figure. Users can view the added application functions, such as device management, My Profile, remote assistance, technical support, etc.



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My application, as seen in the above picture, the one added by this user, can manage the added applications.

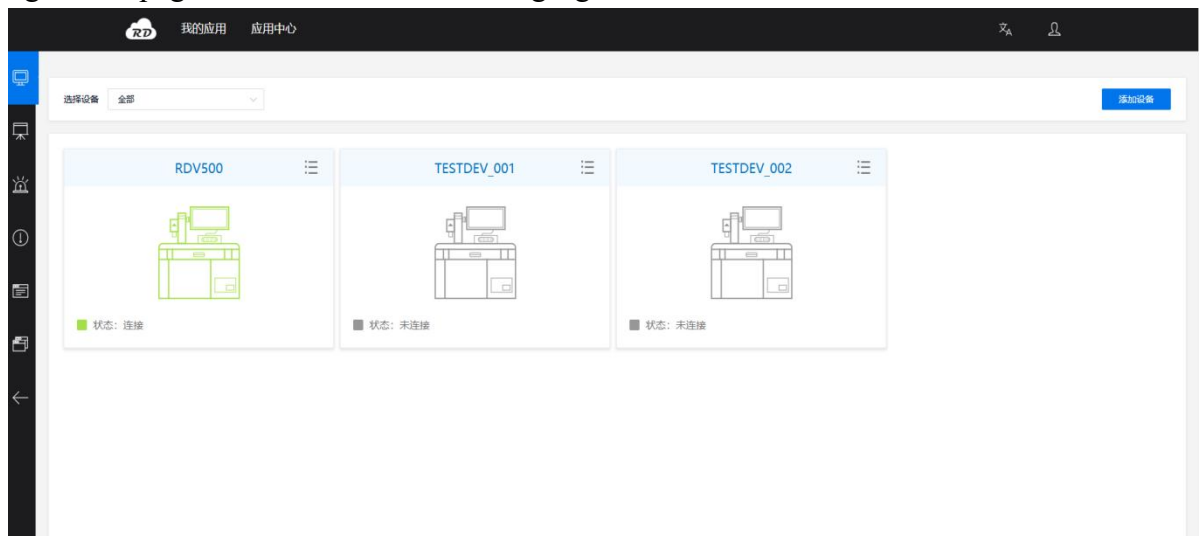
Application Center, where applications can be added.

Personal information, click this button to go to my profile, you can modify person information.

Log out. Click this button to exit to the login page.

10.4 Equipment Management

In "My Applications", click on "Device Management" to jump to the "Device Management" page, as shown in the following figure.



The left side is the menu bar, which opens the device monitoring page by default.

The device nickname entered when adding the device.

The connection status of this device indicates whether the device is connected to the Internet.

Equipment operation list (expands when the mouse hovers).

The equipment operation list has the functions of editing, detailing and unbinding.

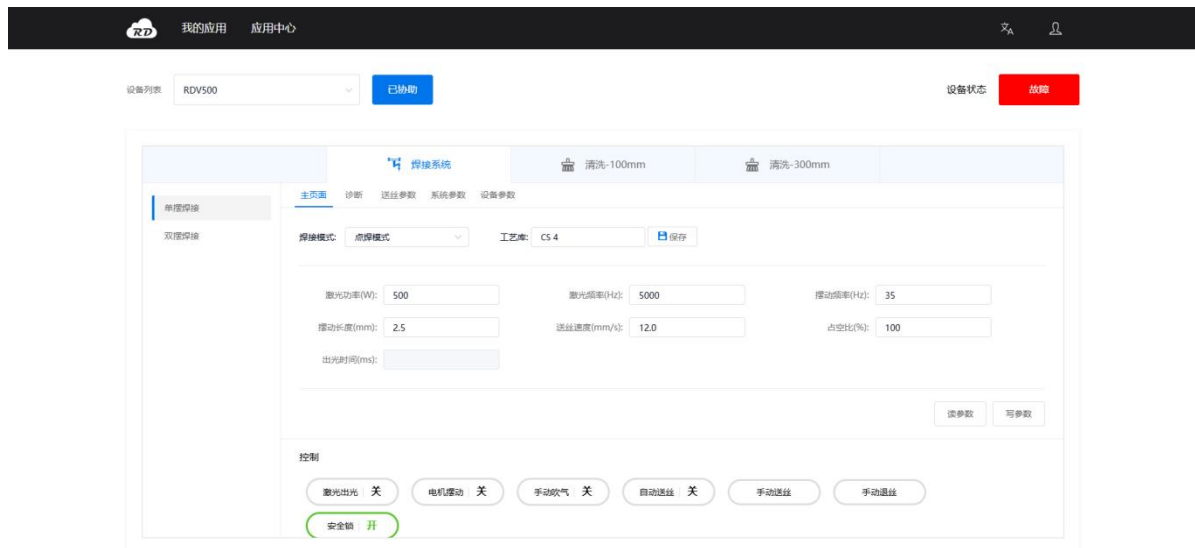
The device can be edited, unbound and details viewed.

The "Add Device" button allows you to add devices to your personal account.

10.5 Remote assistance

In "My Apps", click on "Remote Assistance" to be redirected to the Remote assistance page, as shown in the following figure.

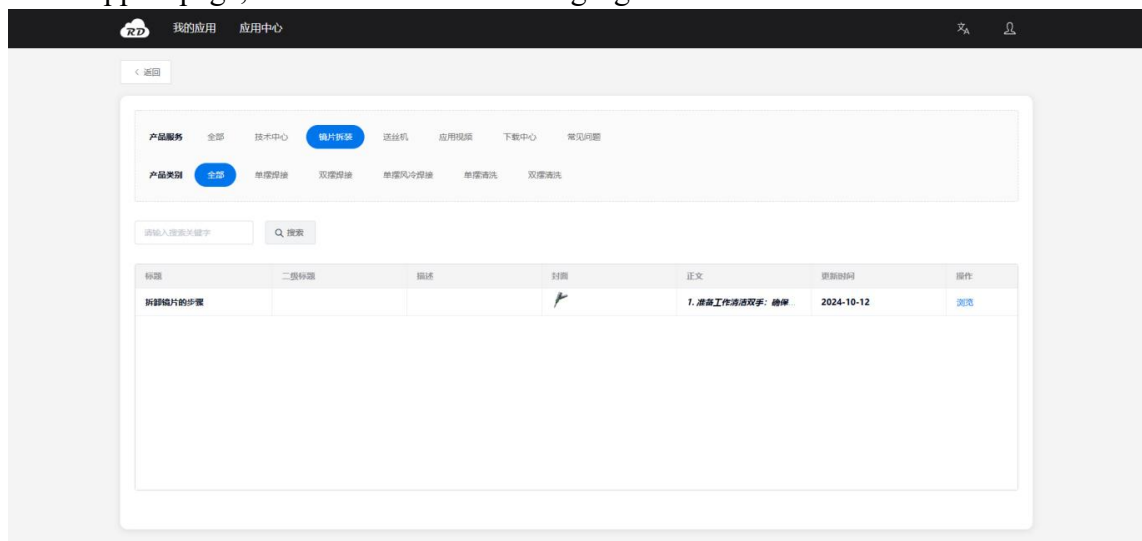
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You can view the devices under the added personal account in the device list. After confirming the need for a remote assistance device, a remote connection can be made to check the device status and manage parameter configuration.

10.6 Technology Center

In "My Applications", click on "Technical Support" to be redirected to the technical support page, as shown in the following figure.



On the technical center page, you can query various product information, including downloading instruction manuals and viewing application videos in the download center.

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Thank you for using the intelligent technology product of Shenzhen RelFar!

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