



Instructions

SIRUI IHS-X Series Intelligent Humidity Control and Safety Cabinet with Fingerprint Scanner

201809

Thank you for purchasing SIRUI Intelligent Humidity Control and Safety Cabinets.

Please read this manual before using.

Please check and confirm the following, before purchasing:

The four serial numbers on the main body of the cabinet, back of the cabinet, carton label and key identification card must be the same.

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1 Features

(1) Introduction of Product Use

The SIRUI Intelligent Humidity Control Cabinet can effectively prevent mildew, fogging, oxidation, corrosion, material deformation, and can reduce the possibility of fracture and failure of electronic devices, etc. The regulated environment of the SIRUI Cabinet helps extend the life and value of your most precious possessions.

- ※ Ideal for storing paintings and papers, including calligraphy, antiques, paper currencies, ancient books, fax paper, copy paper, printing paper, etc.
- ※ Ideal for storing optical & electronic devices, such as advanced lenses, photographic equipment, camcorders, computer items, cameras, lenses, microscopes, CDs, telescopes, film, videotapes, microfilms, Slides, etc.
- ※ Ideal for storing precision materials, such as gold/silver and other precious metals, non-metals, metal powder products, electrical equipment, semiconductors, condensers, printed circuit boards, tungsten wires, IC, batteries, etc.
- ※ Ideal for precision machinery equipment products such as crystals, precision measuring tools, optical lenses, optical scanners, spectrometers, etc.

(2) Features

- ※ Using the touch input method to enter your password or the fingerprint scanner makes operations quick, accurate and convenient.
- ※ Opening the door with a password or fingerprint avoids the inconvenience of a traditional key.
- ※ The humidity control and safety cabinet uses high precision temperature and humidity reading sensors.
- ※ Password and Fingerprint memory: Your password and fingerprint do not need to be reset if power is lost.
- ※ Loud Alarm Warning signal (>90dB).
- ※ Additional backup batteries are included in the cabinet. If there is a power outage, the batteries can supply enough power to open the door with the correct password or fingerprint. It can also power the Alarm System. When the internal batteries are getting weak, the yellow "low power" warning light will activate.
- ※ The cabinet has an LCD display and numeric control that connects to a precise, automatic electronic humidity control system, designed for long-term storage.
- ※ The high performance dehumidifying system is quick, high-efficiency, energy saving and non-polluting.
- ※ The internal design of the humidity control elements protects the components from damage and people from inadvertently touching it.
- ※ The cabinet door is made with 6mm high strength steel that is precision welded with high frequency argon arc equipment.
- ※ The SIRUI Intelligent Humidity Control Cabinet is not only moisture-proof but also anti-theft.
- ※ All the SIRUI Electronic Humidity Control Cabinets incorporate a Photocatalyst - a safe, powerful bacteriostatic antiseptic with antifungal, purifier and cleaning functions.
- ※ The SIRUI Intelligent Electronic Humidity Control Cabinet can be remote-controlled via SIRUI APP or SIRUI Official Account on Wechat.

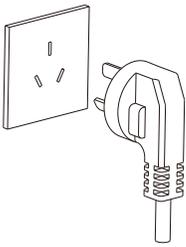
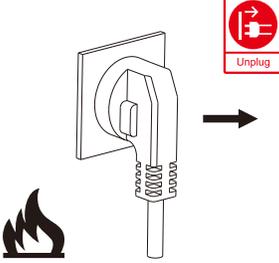
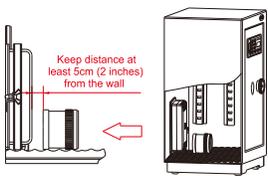
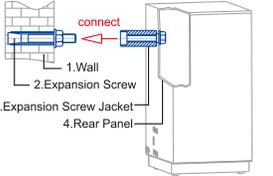
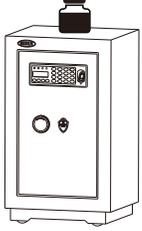
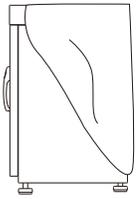
2 Safety Instructions

- ※ Please confirm the power supply is AC 110V~240V 50/60Hz before using.
- ※ Do not put your finger or stick anything into the grill on the back of the Cabinet.
- ※ Inexperienced people and children must use the cabinet under safe supervision and guidance.
- ※ Children should be supervised and should not play with or near the cabinet.
- ※ If the power cord is damaged, it must be replaced with an equivalent power cord. Contact the selling dealer or SIRUI for replacement parts.
- ※ The Intelligent Humidity Control and Safety Cabinet should be used near a good and safe WIFI network.
- ※ Do not damage the QR Code on the cabinet.

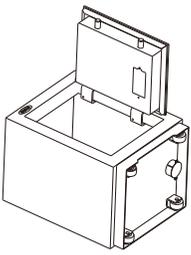
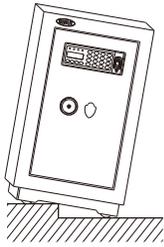
3 Safe Operation

Please use the cabinet correctly, to prevent damage to the product or harm to yourself.

! Operating Instructions (Please follow the instructions to prevent damage to the product or harm to yourself.)

 <p>Power Indicator</p> <p>AC 110V~240V 50/60Hz</p> <p>Humidity control cabinet uses single phase alternating current AC 110V~240V 50/60Hz power source.</p> <p>Improper use of power source may cause fire or high temperature.</p>	 <p>Mounting Instructions</p> <p>The cabinet must be attached to the wall or a sturdy object if the cabinet will be placed on a high surface.</p> <p>To prevent the cabinet from falling and causing damage or personal injury.</p>	 <p>Unplug</p> <p>If there is any abnormal running or smell, please pull out the power plug immediately.</p> <p>Fire or electric shock may occur.</p>
 <p>Instruction</p> <p>Use of excessive force on the shelves may cause the shelves and stored objects to fall and possibly become damaged.</p>	 <p>Instruction</p> <p>Keep the goods inside the cabinet at least 5cm (2 inches) away from the Humidity Control Component.</p> <p>For proper air circulation and heat release.</p>	 <p>Instruction</p> <p>Attach the cabinet onto the wall with Expansion Screw.</p> <p>To prevent the cabinet from tipping over.</p> <p>1.Wall 2.Expansion Screw 3.Expansion Screw Jacket 4.Rear Panel</p>
<p>Warning! (Follow the instructions to prevent serious harm or damage.)</p>		
 <p>Warning</p> <p>Do not place containers with liquid on top of the cabinet.</p> <p>Condensation or spills may cause a short circuit, fire or electrical shock.</p>	 <p>Warning</p> <p>Do not put flammable and explosive things into the cabinet.</p> <p>This may cause a fire or personal injury.</p>	 <p>Warning</p> <p>Do not cover the vents behind the cabinet.</p> <p>Which may cause heat buildup and possible product failure.</p>

Warning! (Follow the instructions to prevent serious harm or damage.)

 	 	 
<p>Do not place cabinet upside down.</p>	<p>Do not put the cabinet on an unsteady or uneven place.</p>	<p>Do not put objects on top of the cabinet or step on the cabinet.</p>
<p>This may cause damage to the cabinet or personal injury.</p>	<p>This may weaken the cabinet dehumidifying function or cause personal injury.</p>	<p>This may damage the cabinet and/or cause personal injury.</p>

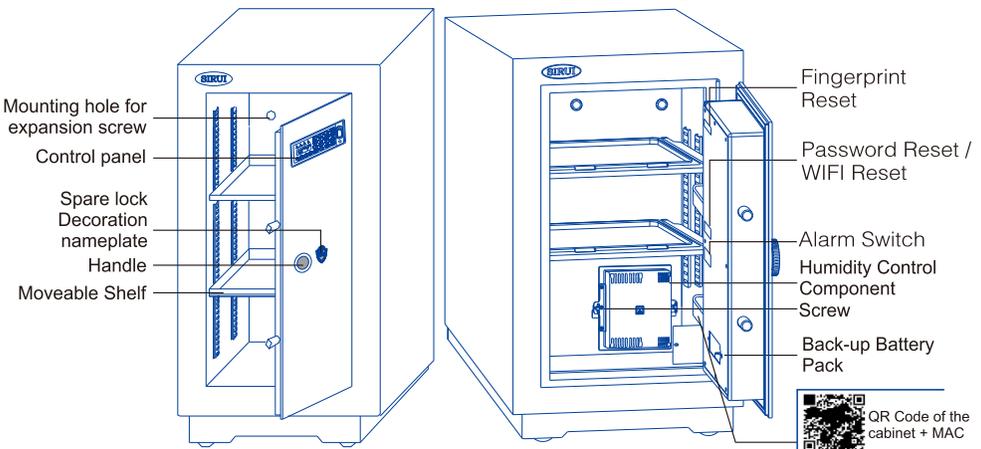
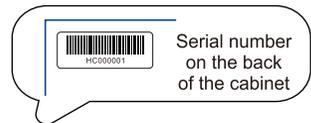
4 Operation

(1) Appearance

The following picture is only an example for instructional purposes. The actual appearance of your cabinet may be different from the picture.

Caution

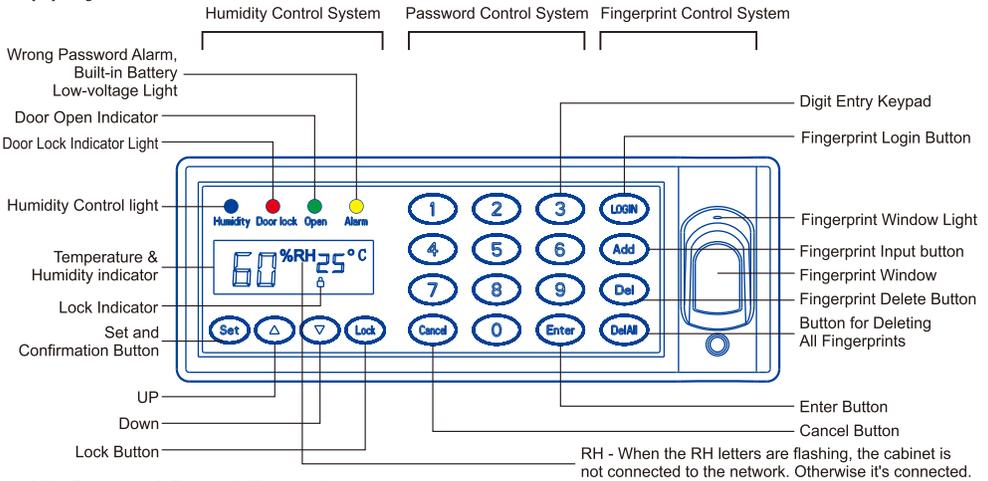
Start and Run the cabinet for 4 hours before placing items in the cabinet.
Accuracy of the humidity control is +/- 5% RH
Factory pre-set of the cabinet internal humidity is 25%RH



Caution

The QR code of the cabinet is very important, keep it properly and do not disclose to any other person.

(2) System Control



(3) Control Panel Functions

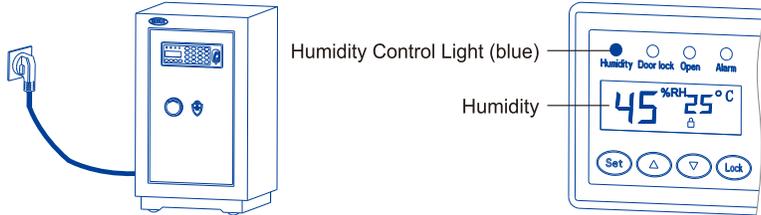
Name	Function Descriptions
Humidity Control Light	Humidity Control Light (Blue) will flash when the Humidity Cabinet is working.
Door Lock Indicator Light	The Lock Indicator Light (Red) will flash when the cabinet door is open or unlocked.
Door Open Indicator Light	Door Open Indicator Light (Green) will flash when you enter the right password or login with the right fingerprint.
Password Error Alarm/ Low Voltage Battery Warning Indicator	If you enter the wrong password three times, login with the wrong fingerprint or the internal battery voltage is low, the Indicator Light (Yellow) will flash.
Humidity and Temperature display	Shows % of humidity and temperature in °C or °F
SET/Confirm Button	Push to view the current humidity setting, adjust the setting and confirm operating status.
▲or▼button	To adjust the humidity setting, press ▲ or ▼ to increase or decrease. (1) Press ▲ button and hold over 5 seconds, the cabinet will beep and C3 will appear on the LCD, the cabinet enters into Humidity Adjusting Mode. Press digital 1 to enter into Network Intensity Testing Mode: The left big digitals are from 1-6, suggest to set above 4. The right is the compatible actual strength - db value, suggest to set during 40-70, less value would be better. Press digital 2 to enter the cabinet Network Status Display Mode: C1-6, E1-6 (please check the instructions for cabinet network status). Press digital 3, reset WIFI mode. When the network is abnormal, it should be reset by manual. (2) Press ▲ button again for exiting the adjusting mode. Normally the modes are set and don't need to adjust as the steps (1) and (2).
Lock button	Pressing LOCK for 2 seconds will unlock the humidity setting.
Digit Entry Keypad	6-12 digits can be entered as a password.
Enter Button	After you input the password, press this button to confirm the password and the system will automatically save the password.
Cancel Button	When you input the wrong password, please press the Cancel Button and input the correct password.
Fingerprint Login Button	Press this Keypad with your saved fingerprint to unlock the door.
Fingerprint Window Light	When you Login, add or delete a fingerprint, the light (Blue) will turn on.
Fingerprint Input Button	You can add a new fingerprint by pressing this button.
Fingerprint Delete Button	You can delete a fingerprint by putting the fingerprint that you want to delete on the Fingerprint Window and pressing the Fingerprint Delete Button.
Delete All Button	Press the Fingerprint Reset Button that is on the inside of the door, then press the Delete All Button to delete all of the saved fingerprints.
Photocatalyst Indicator Light	The Photocatalyst Indicator Light is inside the dehumidifying main engine. The blue light will be appeared when the power is on. It will be off after 1 hour and on again after 11 hour as a circulation.

5 Operation Method

(1) Operation method for Humidity Control System

① Humidity setting

When you use the equipped power cord with 110V~220V, the system will scan automatically. After 30 seconds, the system will go into Power Saving Mode. Please refer to "Object Storage Humidity Reference Table"(Page 11) to find the corresponding humidity you want (the factory setting of the cabinet is 25% RH).



Unlock the display by pressing any button on the control panel and pressing the "LOCK" button for 2 seconds. Set your desired humidity by pressing the "SET" button first (the current humidity number will be flashing), then press the "▲" / "▼" button to make this number increase/decrease. (The number will keep increasing/decreasing until you release the "▲" / "▼" button). Press "SET" again, when you have the number you want. Now the humidity you set is recorded and the system is automatically back to normal operational mode.

Note: humidity control range is 25%RH~65%RH; humidity display range is 20%RH~99%RH; humidity metering error range is $\pm 5\%$ RH.

② Keypad Lockout Function

The system will become self-locking if there's no activity on the keyboard for 10 seconds ( signs appear). This means that any operation (like pressing "▲" or "▼", "SET")will not function.

③ Unlock the keypad

Press the "LOCK" button for 2 seconds and the  sign disappears. You can then control the "▲" or "▼", "SET" buttons.

④ Internal lighting and door locking indication

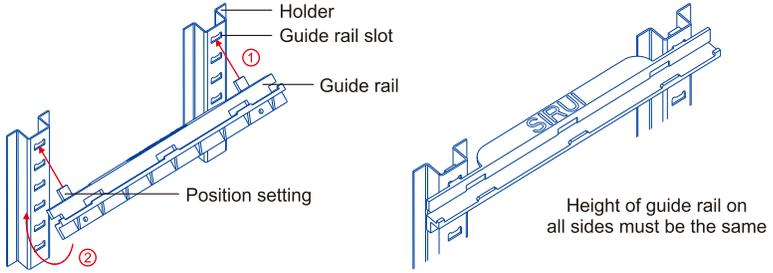
When you open the door, the interior cabinet light will go on and the Lock Indicator Light on the Control Panel will light to indicate that the door is open. When closed, the Lock Indicator Light will go off and the door will lock.

⑤ Activate the LCD's backlight

The LCD screen backlight and keypad illumination function turns on when you press any button on control panel in normal working mode. The light will turn off after 30 seconds.

⑥ Shelf setting

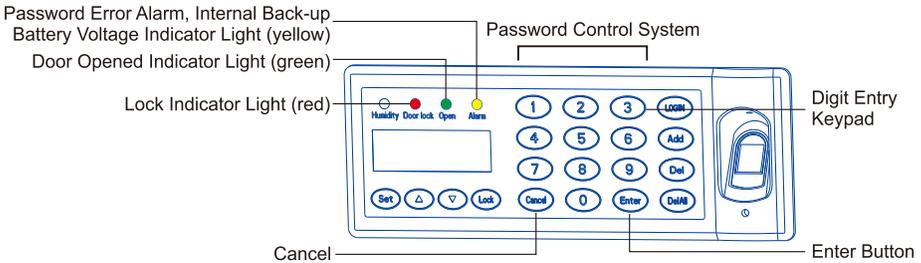
- ✗ Please do not touch the internal humidity control component when setting up the shelf and guide rail system.
- ✗ The guide rail must be set on the same slot height to ensure that the shelf is horizontal.



(2) Security with Electronic Password and Door Operation

① Setup - first use

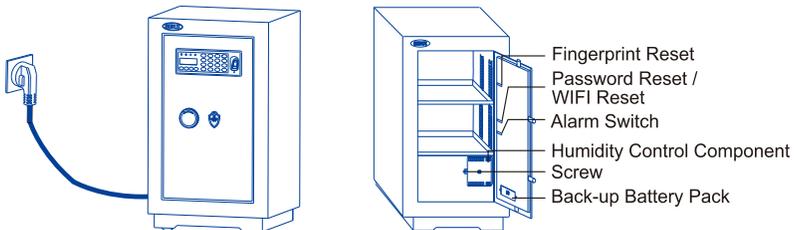
- ※ Please plug the equipped power cord into a power source with voltage of 110V to 220V to provide power for operating the panel and security system when you try to open the door for the first time. The system will scan automatically and 30 seconds later, convert to the power saving mode.
- ※ Press any key on the operation panel to activate the screen. Input the initial password 000000, then press "Enter" for confirmation. The indicator light (green light) will flash and beep twice. Next, the green light will light up for only 4 seconds. You should open the door by turning the handle clockwise within this 4 second time period.



② Set or Revise Password

With the door open, press the "Password Reset / WIFI Reset" button on the side plate on the back of the door and release. The green light will flash and beep once. Next reset the password by inputting your own password on the operation panel (from 6 to 12 digits). When you press "ENTER", the green light will flash and beep once. Then, the green light will light up again. Now, input your password again. If the two passwords are the same, the green light will flash and beep twice. Your password is now set. If they are different, the red light will flash, the password is not set. (Re-enter your password again)

Note: When you press the "Password Reset / WIFI Reset" button 1~2 seconds and release, the cabinet will beep and enter Password Reset mode. When you press and hold the "Password Reset / WIFI Reset" button over 5 seconds, the cabinet will beep and enter WIFI connecting mode.



③ Normal operation

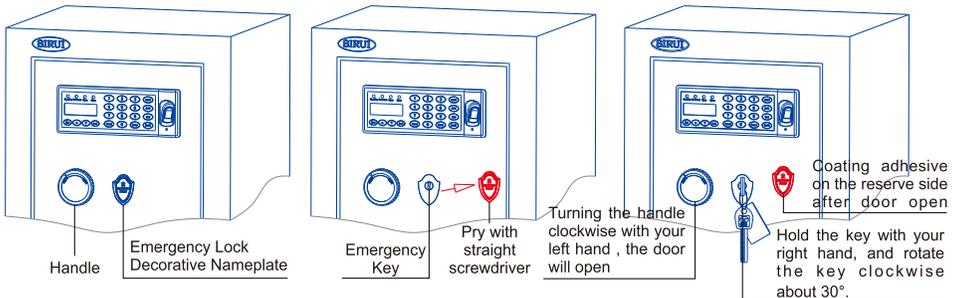
Open the door: Press any key to activate the screen. Input your password and press "Enter" (if you make any entry error, press "Cancel" to delete the wrong password and input the right one). The green light will flash and beep twice. Next, the green light will be shining for 4 seconds only. Open the door by turning the handle clockwise within this 4 seconds period.

Finally, close the door by turning the handle counter-clockwise to its limit.

④ Open the door for emergency

Open the door with the emergency key if you forget the password or cannot open it due to improper use. The emergency lock is hidden behind the decorative nameplate. Pry the nameplate off and take the key. Insert the key with your right hand and turn clockwise about 30° while turning the handle clockwise about 1/4 turn with your left hand. Now the door is open. After you have reset the password, replace the key behind the decorative nameplate and press the nameplate back into position.

As shown in the photo below

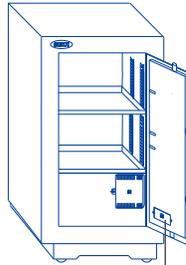


⑤ Alarm Function

- ✗ The alarm will sound if any bump or movement happens to the cabinet after the door is closed for more than 1 minute.
- ✗ The alarm will sound if the wrong password or login fingerprint is entered 3 successive times.
- ✗ An extremely loud alarm ($\geq 90\text{dB}$) will sound for 1 minute. Re-enter the right password and the alarm will stop.
- ✗ Turn off the alarm by turning down the " Alarm Switch " that is on the side plate behind the door.

⑥ Using the Inner Back-up Battery Box During Power Outage (If the power is restored, the Inner Back-up Battery Box will automatically turn off)

- ✗ Open the door, put the batteries (4pcs 2# C type batteries) into the Internal Battery Pack on the door according to the anode and cathode mark. If there is a power outage, the system will automatically use the Internal Battery Pack to supply the required power that will allow you to input the password, fingerprint login or alarm . At this time, the dehumidifying system will not work.



Back-up Battery Box

✘ If there is no electrical power supply, the Internal Backup Battery will provide power for you to open the door by entering your password or login with your fingerprint. If you see a green and yellow light, this means that the Internal Backup Battery has insufficient power to open the door. You should open the cabinet and replace the internal battery(2# C type) for future usage.

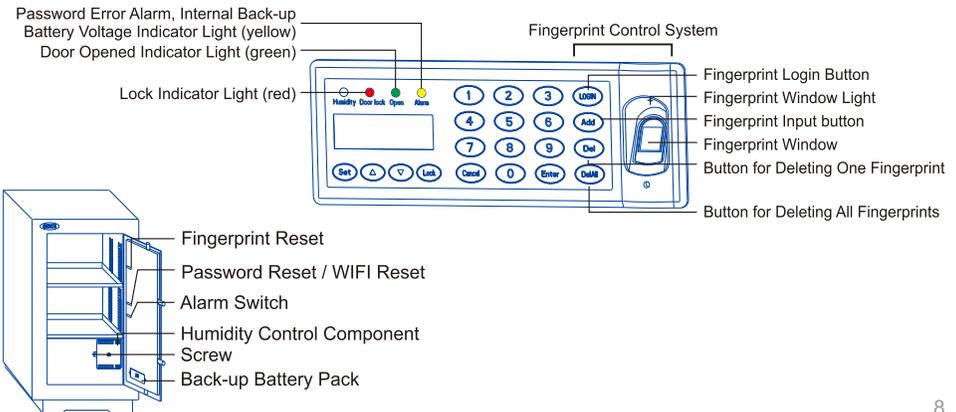
- ⑦ Please properly keep the emergency key in a safe place. Never put into the cabinet for storage.

⚠ Attention Never put the emergency key into the cabinet for storage.

(3) Operation Method for Fingerprint Scanner System to Open the Door

① Delete the Fingerprint Set

When the door is open (please refer to 5.2 for opening the door with digital passwords), press the Finger Reset button once at the back of the door on the side, the green light will flash for 4 seconds and make a sound "bi". Press the Del All button on the Control Panel, the green light will flash twice after 3-5 seconds, and make two sounds "bi, bi", the Fingerprint Set is deleted. If the red light flashes, the Fingerprint set is not deleted, and need to re-operate as mentioned above.



② Add Fingerprint

When the door is open, press “Add” on the back of the door and it will beep once. Put the finger on the window and press it within 4 seconds. Now, the green light will flash once, which means the fingerprint identification is successful for the first time. Then raise your finger immediately and quickly return to the same position with the same strength. During the second fingerprint scan the green light will flash again. You can then move your finger away. (Notice: if the fingerprint identification is made 2 times, the identification accuracy of the fingerprint will improve). The green light will flash and beep twice. Now, the first fingerprint is added. If not, the red light will flash twice. Repeat this procedure when you want to add additional fingerprints, up to a maximum of 128.

③ Open or Close the Door with Fingerprint

To Open the door: Press any key to activate the screen. After pressing “LOGIN”, put your finger on the window within 4 seconds. The position and strength should be the same as when you stored the fingerprint. Now, the green light will flash and beep twice, which means successful. Then the green light will shine 4 seconds. Open the door by turning the handle clockwise within this 4 seconds period.

Finally, close the door by turning the handle counter-clockwise to its limit.

④ Delete Fingerprint

※ Delete a fingerprint: When the door is open, press “Del” on the Fingerprint Control Panel. Put the finger you want to delete on the window. The position and strength should be the same as when you stored the fingerprint. Now, the green light will flash and beep twice, which means successful. If not, the red light will shine.



Attention

Water and oil are not allowed on the window when adding or logging in with your fingerprint.

Duplicate fingerprints couldn't be added.

(4) Operation for Remote Control

SIRUI APP and SIRUI Wechat Public Account are optional for operation.



Caution

The IHS-X Serial Intelligent Humidity Control and Safety Cabinet has built-in wireless capability, the working frequency is 2.4GHz. Please set up the IHS-X Serial Intelligent Humidity Control and Safety Cabinet in an area where there is a strong wireless signal for proper functionality.

① Remote Control with SIRUI APP.

a. Download the SIRUI APP for the first use.

Please scan the QR Code or go to the website below to download the SIRUI APP.
<https://device.sirui.com/app/download.html>

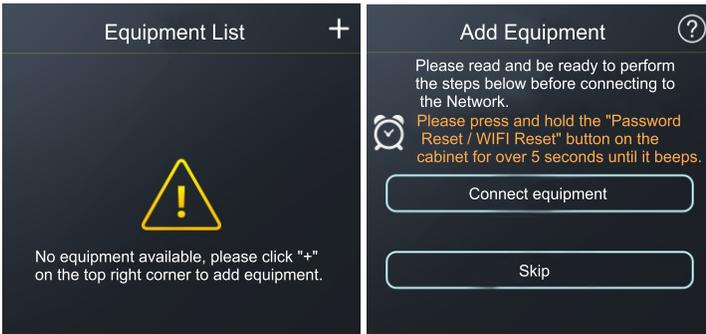
(Note: Please register a new account before logging into the APP for the first time.)



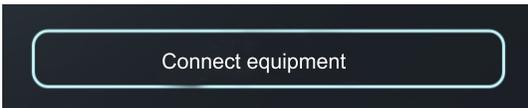
Note: The QR Code and APP will be updated according to different versions of the product, please use the proper one for your cabinet.

② Operation of SIRUI APP.

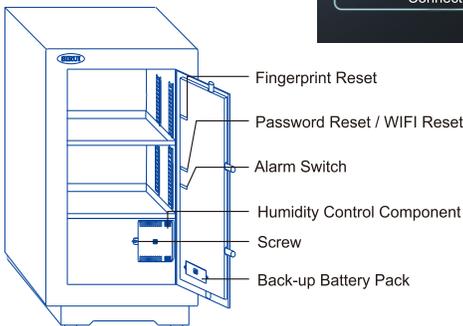
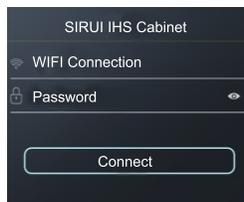
- a. Open the APP to enter the "Equipment List" interface automatically. Click "+" on the top right corner to enter into the Add Equipment mode.



- b. Click "Connect equipment" for connecting the cabinet to the WIFI for the first time.



- c. The interface will now show the details as below. The APP will retrieve the WIFI name that the mobile phone is using automatically. Enter the password for the router. When connecting the cabinet to the network for the first time, press and hold the "Password Reset / WIFI Reset" button for 5 seconds until it beeps and LCD shows C3 - the cabinet is now connected to the network. (Note: Please finish the network connecting operation on your mobile device within 2 seconds, when the cabinet is in network connect status. Otherwise the system will enter the normal mode without connecting to the network). Click the "connect" key and wait for a few seconds, the cabinet will then be connected to the WIFI router. (The number of seconds in this step may be different based on the strength of the WIFI and the particular router being used.)



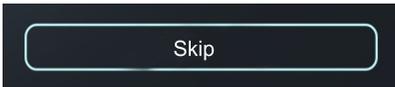
If connecting the network over time, please reset and connect the network as step c.

d. After the WIFI is connected, the SIRUI IHS cabinet will be added to the "Equipment List". Click the SIRUI cabinet to enter the operation interface. (Click the icon " " on the right to reset the cabinet name to the name of your choice. If the cabinet name is in blue, the WIFI is connected. If it's grey, the WIFI is not connected.) If the cabinet is not connected, please repeat the above steps to connect to the WIFI or check the router for issues.

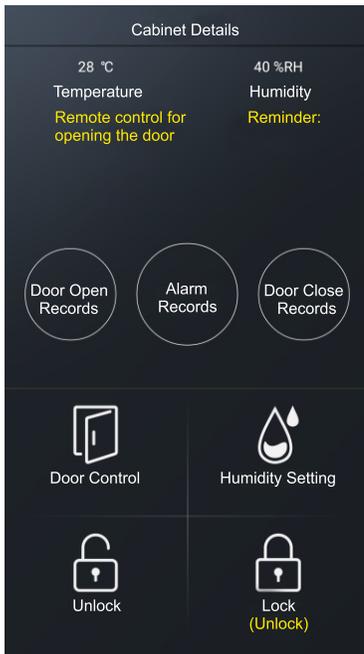


B. To operate on a different mobile phone.

If the Intelligent Humidity Control Cabinet is connected to the WIFI, and you need to operate it from a different mobile phone, click the "Skip" key below to enter the scan mode. Scan the QR code on the cabinet, and then the mobile phone will retrieve the APP and will be connected to the cabinet automatically.



C. Interface for Cabinet Operation



a. Door Open Records, Door Close Records and Alarm Records

Click each key on the interface above for reviewing the respective records. SIRUI's server will maintain the activity records for 30 days. If the cabinet was opened by entering the password and it is entered incorrectly 3 times, the App on the mobile phone will receive an alarm notification when it's open.

b. Locked

When the cabinet is locked by the APP, the cabinet can only be opened with its key and cannot be opened with password or fingerprint methods.

 **Caution**

When the cabinet is locked by the APP, and the network connection is lost, the cabinet cannot be opened by clicking "unlock" on the APP or by using the password or fingerprint sensor. The cabinet can only be opened after the network is reconnected or opened with its key.

c. Unlock

Unlock and open the cabinet with the APP, password or fingerprint reader.

d. Remote Door Opening Control

Click the "Door Control" icon on the APP, a password box will appear. Enter the password to open the cabinet via remote control.

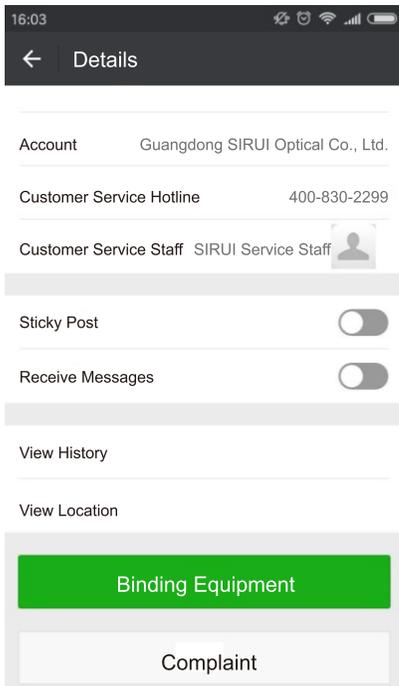
e. Humidity Setting

Click the "Humidity Setting" icon for adjusting the humidity of the cabinet.

② **Remote Control with SIRUI Wechat Public Account**

a. Open the Wechat to enter the scan mode.

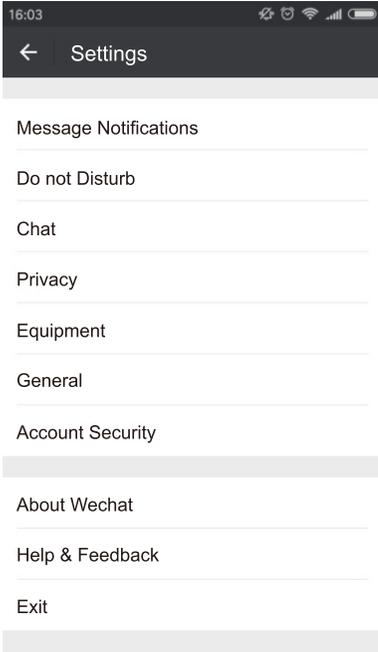
b. Scan the QR Code on the IHS-X, and click "Connect Equipment".



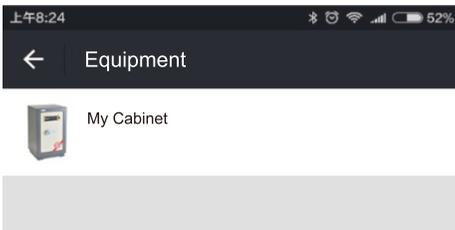
c. Successfully added the the SIRUI Wechat Official Account



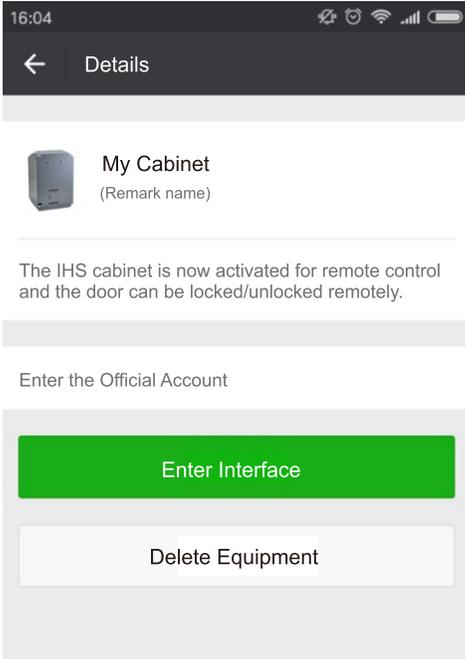
d. Enter the Wechat main interface, click "Me" to enter into "Settings", and the menu will show as below.



e. Click "Equipment" to enter the interface below.

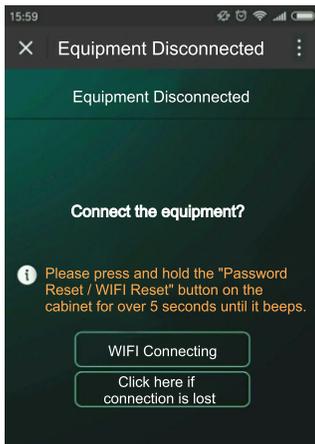


f. Click "My Cabinet" to enter the interface below.



g. Equipment name can be changed on above interface. Click "Enter Interface".
(Note: The name changed for the equipment is only valid when Wechat is logged in with the same mobile phone.)

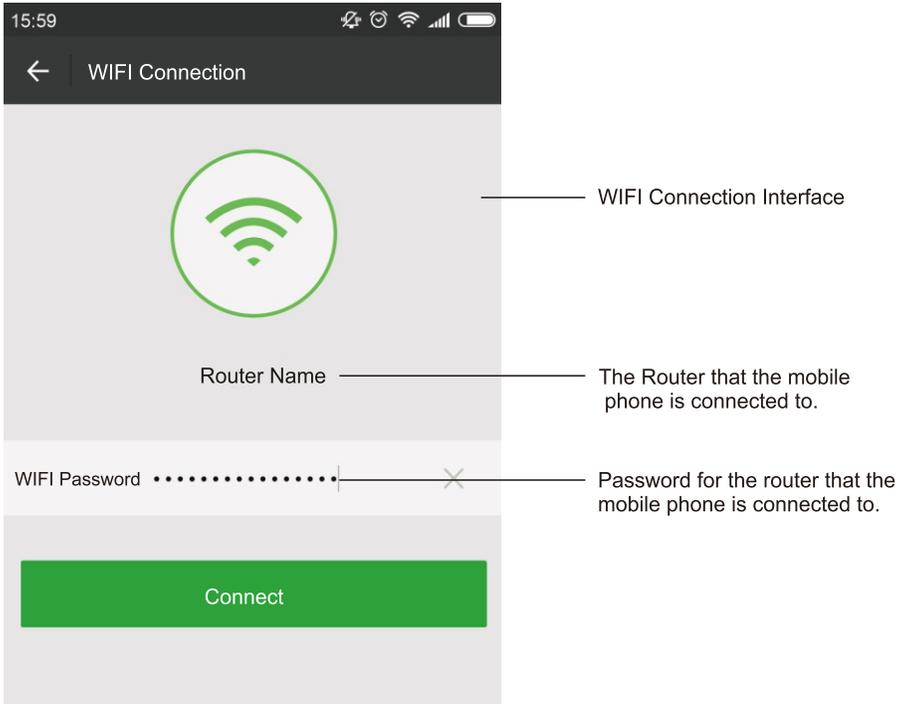
h. If the equipment is not connected to the network, the interface will show as follows.



i. Click "Connect" on the WIFI Connection interface to connect WIFI for the cabinet. The WIFI name will be the router name that the current mobile phone connected to. Enter the password of the router selected for connection.

Note: This Interface is subject to change without notice.

"Click here if connection is lost" will refresh the interface, This can be ignored in most situations.



j. After the WIFI password is entered on the Wechat interface above, press and hold the "Password Reset / WIFI Reset" button on the cabinet for over 5 seconds until it beeps and the LCD shows C3, the cabinet is ready for connecting to the WIFI. Press "connect" on the Wechat interface to enter the "Operation" interface as below (operation method is same as shown for the APP).

Note: The Wechat wireless network connecting steps are similar to the APP. Please review the details for the APP connection. Some mobile phones may not have the ability to connect the network via Wechat, so the APP may be the only option.

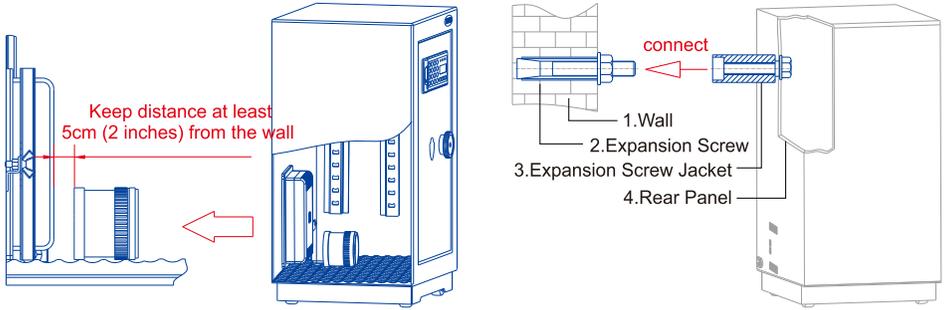


Click to reconnect the network.

- k. Alarm Notification from Wechat, due to the limitation of communication, Wechat can not receive the alarm notification message, but the alarm records can be reviewed after entering the Wechat interface.

6 Caution

1. Do not touch the power plug with wet hands, otherwise it may cause personal harm.
2. If the power cord is aged, broken, loose, or unusually hot, please replace it immediately to avoid fire.
3. When the cabinet is maintained, cleaned or moved, please turn off the power. Please pull out the power plug if the cabinet will not be used for a long time.
4. Do not put corrosive products like chemicals, flammable or explosive items into the cabinet, otherwise it may cause a fire or explosion.
5. Do not clean the cabinet with water. This may damage the electronics and cause a potential shock or fire hazard.
6. Make sure the items inside the cabinet are about 5cm away from the Humidity Control Component so that the system can be properly ventilated and heat can be dispersed.
7. Attach the cabinet onto the wall with Expansion Screw (M10) as picture below.



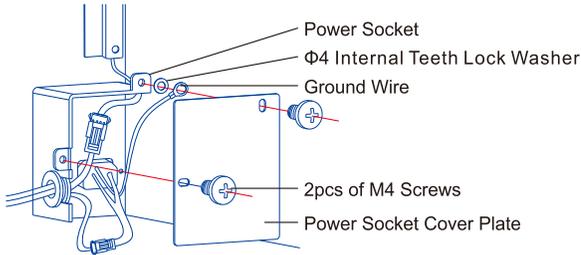
7

Possible problems and trouble shooting

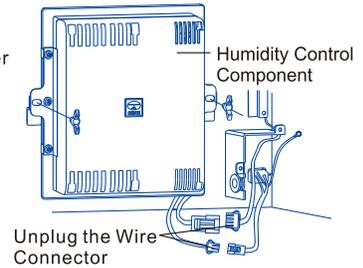
Problem	Possible reason	Solution
Still doesn't work when turned on	Is Power cord plugged in properly?	Make sure power supply and plug are in good condition and fully plugged into the outlet.
Humidity is not going to desired level	Does the article contain too much moisture?	Dry the article with fan before putting it in the cabinet.
	Inappropriate humidity setting.	Refer to the humidity recommendation for your article and set the proper one.
	Internal humidity is much higher than outside environment.	Set the internal humidity lower than outside environment.
	Opening or closing the door too often.	Reduce the number of times and length of time the door is opened.
	Too crowded inside - affects its humidity absorbing convection function.	Rearrange the inner articles to allow sufficient airflow or remove some articles.
	Locating place : a. High heat from a nearby oven or other heat generating equipment may affect efficiency. b. The blowing from the air outlet of the air conditioner, fan or other equipment may affect air convection.	Stay away from places with high temperatures and strong air flow,
Cannot open the door with password	Alarm light indicates wrong password entered.	Check and Re-enter password.
	When the Low Battery Warning Light is on, the batteries are used up, and should be replaced with new ones.	Plug the external battery box (with batteries) into the power socket and open the door in normal operation.
Cannot open the door with fingerprint	There is water, sweat or oil on your hand.	Clean your hand.
	There is water, sweat or oil on your fingerprint.	Clean your fingerprint.
Can not connect to WIFI	The cabinet may be too far away from the router, and the signal may be blocked or disturbed by the electromagnetism.	Move the cabinet closely to the router, press the ▲ button to check the signal strength according to the operation instructions.
The door can not be opened with Password or Fingerprints when the cabinet has power on.	The APP may be locked.	Open the APP, press the "unlock" button and try to open the door with password and fingerprint again.

When the Humidity Control Component is not working, please remove the Component as follows (the power must be shut off first):

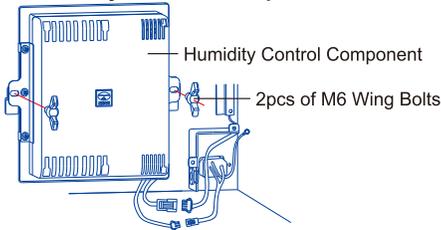
1. Unscrew the 2pcs of M4 Screws, remove the cover of the Power Socket.



2. Unplug the Wire Connector.



3. Loosen the 2pcs of Wing Bolts connected to the Humidity Control Component, then the Humidity Control Component can be dismantled.



⚠ Attention

1. Run the cabinet for 4 hours before placing items into the cabinet.
2. The temperature of the cabinet system will rise when it starts dehumidifying. It will last about 35 minutes (different size cabinets will take longer or shorter periods of time to stabilize).
3. Please fan dry items with lots of moisture, like paper, clothes, packing materials before putting into the cabinet.

8 Humidity recommendations: Reference Table

Relative humidity	Storage Items
55%-60%RH	Paper material: paintings, antiques, paper currency, old books, fax paper, copy paper, typing paper.
45%-55%RH	Optical equipment: video camera, acoustics, computer equipment, cameras, lenses, microscopes, CDs, telescopes, endoscopes, negative film, video tapes, microfilm, disk drives, lantern slides.
35%-45%RH	Precise Material: metal, nonmetal, metal powder product, electrical equipment, electronic product, semiconductors, capacitors, Printed Circuit Boards, tungsten filament, IC, battery. Rrecision machinery & instrument products: accessory, crystal, precision measuring tools, optical glass, spectrometer etc.
35%-25%RH	Chemical raw materials: pharmacy raw materials, spices, paint, powder, powder material, adhesives. Farm supplies: seeds, pollen, dried flowers.

⚠ Attention The equipment cannot be used when the relative humidity is lower than 25%

9 Packing List

S.N.	Description	Unit	IHS70X	IHS110X	IHS260X
1	Detachable power cord with 2/3 prong connector	set	1	1	1
2	Spare key	pcs	2	2	2
3	Drawer key	pcs	0	2	2
4	Battery	pair	2	2	2
5	Expansion Screw	set	2	2	2
6	Expansion Screw Jacket	pcs	2	2	2
7	Moveable Shelf	pcs	2	1	3
8	Shelf bracket	pcs	4	2	6
9	Sponge	pcs	3	4	6
10	Instructions	pcs	1	1	1

10 IHS-X Fingerprint Series Specification

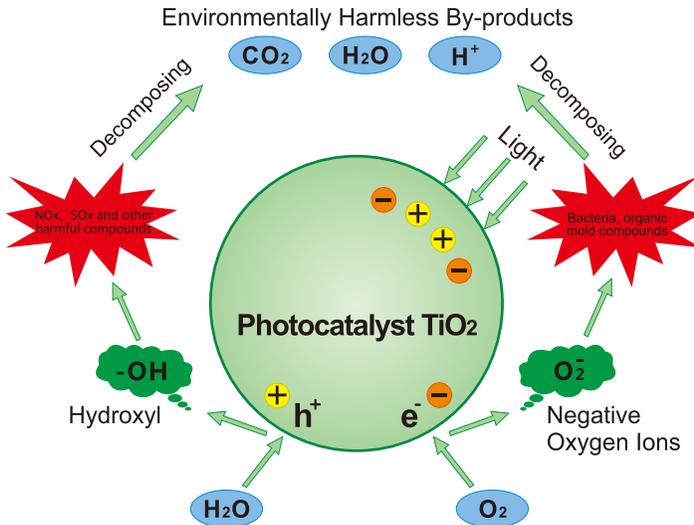
Model	IHS70X	IHS110X	IHS260X
Capacity (L)	70	110	260
Weight (kg)	52	70	120
Dimensions <small>height×length×width (mm/inch)</small>	700×415×360 27.6×16.3×14.2	856×450×380 33.7×17.7×15.0	1340×520×450 52.8×20.5×17.7
Password digit	Can be chosen randomly between 6-12 digits		
Humidity control mode	Fully automatic electronic humidity control		
Door material	6mm steel plate with powder coating		
Cabinet body material	3mm Cold rolled steel with powder coating		
Nominal voltage	AC 110V~240V 50/60Hz		
Power consumption (kW/month)	1.3 ~ 3.4	1.3 ~ 5.3	1.5 ~ 5.3

Product is subject to change without prior notice.

**Revolutionary industry innovation—
SIRUI creates high performance,
mildew-proof humidity control cabinets.**



Principles of Photocatalyst TiO₂



Under irradiation of light, Photocatalyst TiO₂ will produce a photocatalytic reaction like photosynthesis - oxygen. Due to the absorption of light energy, the interior will be excited and generate electron hole pairs (photo-generated carrier). The electron hole pairs will move to the surface of the Photocatalyst TiO₂ immediately and activate the adsorbed (stuck to the outside surface) oxygen and moisture, producing reactive free hydroxyl (-OH) and reactive oxygen (-O). The Photocatalyst TiO₂ has potent light oxidation reduction performance, and can oxidize and decompose all organic compounds and some inorganic substances. When the pollutant and bacteria adsorb onto the surface of the Photocatalyst TiO₂, chain degradation reaction will occur, and convert the organic pollutant into harmless, pollution-free water (H₂O) and carbon dioxide (CO₂). This makes the Photocatalyst TiO₂ capable of sterilizing, deodorizing, mildew-proofing, dust-proofing, self-cleaning and purifying.

Photocatalyst TiO₂ converts the contacted organic compounds into CO₂ and H₂O with the oxygen molecule and water molecule in the air. The Photocatalyst TiO₂ itself doesn't change, but can promote a chemical reaction. The chemical reaction will last long, so the operating cost will be low. Photocatalyst itself is non-toxic and harmless, it has been widely used in the area of food, medicine, cosmetics, etc.



Photocatalyst TiO₂ Testing Group



Control Group

SIRUI Intelligent Humidity Control Cabinet with Photocatalyst TiO₂



SIRUI Electronic Humidity Control and Safety Cabinets are all manufactured with Photocatalyst TiO₂ - a safe specialized coating that makes the cabinets anti-bacterial, sterilizing, purifying, deodorizing and mildew-proofing further enhancing their dust-proof and humidity controlled environment.

Testing Report for the germicidal rate of SIRUI Electronic Humidity Cabinets

The test report indicated: After operating the 50L cabinet for 1 hour, reduction of the bacterium - *Staphylococcus albus* 8032 - was 82%.

Testing Report for the removing rate of pollutants by SIRUI Electronic Humidity Cabinets (Harmful fumes from substance like Formaldehyde, Benzene, etc.)

The testing report indicated: After operating the 50L cabinet for 24 hours, the removal rate for the Formaldehyde was 83.9%, and the removal rate for the Benzene was 86%.

GUANGDONG DETECTION CENTER OF MICROBIOLOGY				
REPORT FOR ANALYSIS				
Name of Sample	SIRUI ELECTRONIC HUMIDITY CONTROL CABINET	Way and Quantity of Reception	One Sample Submitted	
Spec and Lot No. of Sample	HC Series/HS Series	State and Characteristic	Emergency	
Applicant	Zhongshan SIRUI Photographic Equipment Industry Co., Ltd	Sample Received Date	2014/01/15	
Test Item	Disinfection efficiency for air	Testing Period	2014/01/15 to 2014/01/23	
Report No.	2014FM021-146	Date for Reporting	2014/02/10	
Test Method	Referred to Technical Standard for Disinfection (GB2 Ministry of Health P.R.China)-2.1.3			
RESULTS				
Action time(hr)	The tested organism	Serial Number	The number of Bacteria in the air (cfu/m ³)	Reduced rate (%)
0 (CK)	<i>Staphylococcus albus</i> 8032	1	4.6 × 10 ⁷	
		2	4.5 × 10 ⁷	
		3	4.7 × 10 ⁷	
2h	<i>Staphylococcus albus</i> 8032	1	7.8 × 10 ⁶	83.04
		2	7.9 × 10 ⁶	82.44
		3	8.0 × 10 ⁶	82.98
Test results showed that after turning on the sample for 1 hour in the 50L test chamber, <i>Staphylococcus albus</i> 8032 reduction rate was 82%.				
(blank below)				
Remarks	1.Method description:Spot test:after opening purification, sample the air with the flow of 10L/min by pump liquid aerosol sampler,the sampling time is 2 minutes,the test room is 50L. 2.Killing rate test has been eliminated the influence of natural death of microorganisms before. 3.Manufacturer: Zhongshan SIRUI Photographic Equipment Industry Co., Ltd.			
Editor: Chen Jingling	Verifier: Li Liangjie	Approver: Wu Jiefeng	Official Seal	

GUANGDONG DETECTION CENTER OF MICROBIOLOGY				
REPORT FOR ANALYSIS				
Name of Sample	SIRUI ELECTRONIC HUMIDITY CONTROL CABINET	Way and Quantity of Reception	One Sample Submitted	
Spec and Lot No. of Sample	HC Series/HS Series	State and Characteristic	Emergency	
Applicant	Zhongshan SIRUI Photographic Equipment Industry Co., Ltd	Sample Received Date	2014/01/15	
Test Item	See the following table	Testing Period	2014/01/16 to 2014/01/21	
Report No.	2014FM021-146	Date for Reporting	2014/02/10	
Test Method	GB/T 2764-2006			
RESULTS				
Test pollutants	Action time(hr)	Result		Removal rate (%)
		The initial concentration (mg/m ³)	The Concentration of test cabin (mg/m ³)	
Formaldehyde	24h	2.05	0.33	83.9
Benzene	24h	4.15	0.583	86.0
Test results showed that after turning on the sample for 24 hours in the 50L test chamber, the pollutant formaldehyde removal rate was 83.9%, and the benzene removal was 86%.				
(blank below)				
Remarks	1.The experiment was performed at the 50L test cabin. 2.Manufacturer:Zhongshan SIRUI Photographic Equipment Industry Co., Ltd.			
Editor: Chen Jingling	Verifier: Li Liangjie	Approver: Wu Jiefeng	Official Seal	

WARRANTY CARD / INFORMATION



Dear SIRUI Customer:

Thank you for your purchase of SIRUI Professional Products! SIRUI warrants that your purchase is free from defects in materials and workmanship under normal use during the Limited Warranty Period. The Warranty begins on the original date of purchase on your sales receipt and is not transferrable. If service is required, a copy of the sales receipt must be included with an explanation of the problem.

Product	Warranty Length
Humidity Control Cabinet (Cabinet)	6 years
Humidity Control Cabinet (Electronics)	3 years

Model: _____ Date: _____

Store: _____ Serial Number: _____

Warranty coverage can differ from region to region.

Please see the contact information below for product registration, information and service for the region the product was purchased in. _____

SIRUI 6 (six) Year Limited Warranty (3 Year Warranty for Electronic Parts). This warranty shall be limited to repair, adjustment and/or replacement at SIRUI or its authorized distributors option, of defective parts, free of charge (except the cost of transportation to the distributor/service center). Responsibility is limited to the actual cost of the item. Call or Email with questions and service before sending any product to the center in your region. Below is a listing of contact information for Product Registration, Service Inquiries and Questions. SIRUI will not be responsible for expenses or inconveniences, or consequential damages to equipment, or by breach of any expressed or implied warranties.

Limitations:

Warranty is not transferable.

This warranty covers all defects encountered in normal use of the equipment and does not apply in the following cases:

1. If the equipment has been serviced by other than an authorized SIRUI Service Center
2. Damage to the equipment is due to modification (including but not limited to, the removal of ballhead clamps), overloading, mishandling, abuse, accident, sand*, corrosives, water damage* or not following operating instructions.
3. No valid proof of purchase is provided.
4. Damage caused by acts of nature (including, but not limited to fires, floods or earthquakes).

*Warranty coverage can differ from region to region. Please see contact information below for product registration, information and service for the region the product was purchased in.



Model _____

Purchase date _____

Store Name _____

Store Phone _____

Store Address _____

Stamp or seal _____

Warranty Address and Contact Information:

(Please contact the seller or the local distributor where the product was purchased for warranty issues or questions and before any product is sent.)

1. Guangdong SIRUI Optical Co., Ltd.

The Third Industrial District, WuguishanTown, ZhongshanCity, Guangdong, China

Tel:0086-760-88897373 Fax:0086-760-88207062
Http://www.sirui.com E-mail: info@sirui-photo.com
Service Hotline: 0086-400 830 2299

2. SIRUI USA, LLC

Add: 29 Commerce Court Verona, NJ 07044
www.sirui.com

Service: Toll Free 866-373-0829 E-mail: info@sirui.com

FOR PRODUCTS PURCHASED IN THE USA PLEASE SEE:

For full details on USA Warranty Terms and Limitations:

www.sirui.com/warranty.html

To register products: www.sirui.com/product-registration.html

3. Focus Nordic AB

For technical support, service or repairs, please contact:

Sweden: info@focusnordic.se	www.focusnordic.se
Norway: info@focusnordic.no	www.focusnordic.no
Denmark: info@focusnordic.dk	www.focusnordic.dk
Finland: info@focusnordic.fi	www.focusnordic.fi
Iceland: info@focusnordic.is	www.focusnordic.is
Latvia: info@focusnordic.lv	www.focusnordic.lv
Estonia: info@focusnordic.ee	www.focusnordic.ee
Lithuania: info@focusnordic.lt	www.focusnordic.lt
Poland: info@focusnordic.pl	www.focusnordic.pl

4. SIRUI Europe GmbH (European Service Center)

Add: Fredericiastr.2.14059 Berlin. Germany

Phone: +49 221 94 99 54-50 E-mail: info@sirui.de

(Please contact the seller or your local distributor for warranty issues.)

5. TSE Imaging BV

Add: Argonweg 135,1362AD Almere, The Netherlands

Telephone: +31 (0)36 8450348 E-mail: service@tse-imaging.nl

(Exclusive Distributor for Netherlands, Belgium, Luxemburg)

www.sirui-photo.nl

6. 대광엔터프라이즈

한국 총판, 기술지원 및 보증서비스 제공.

서울특별시 중구 남대문로 10, 1층

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