

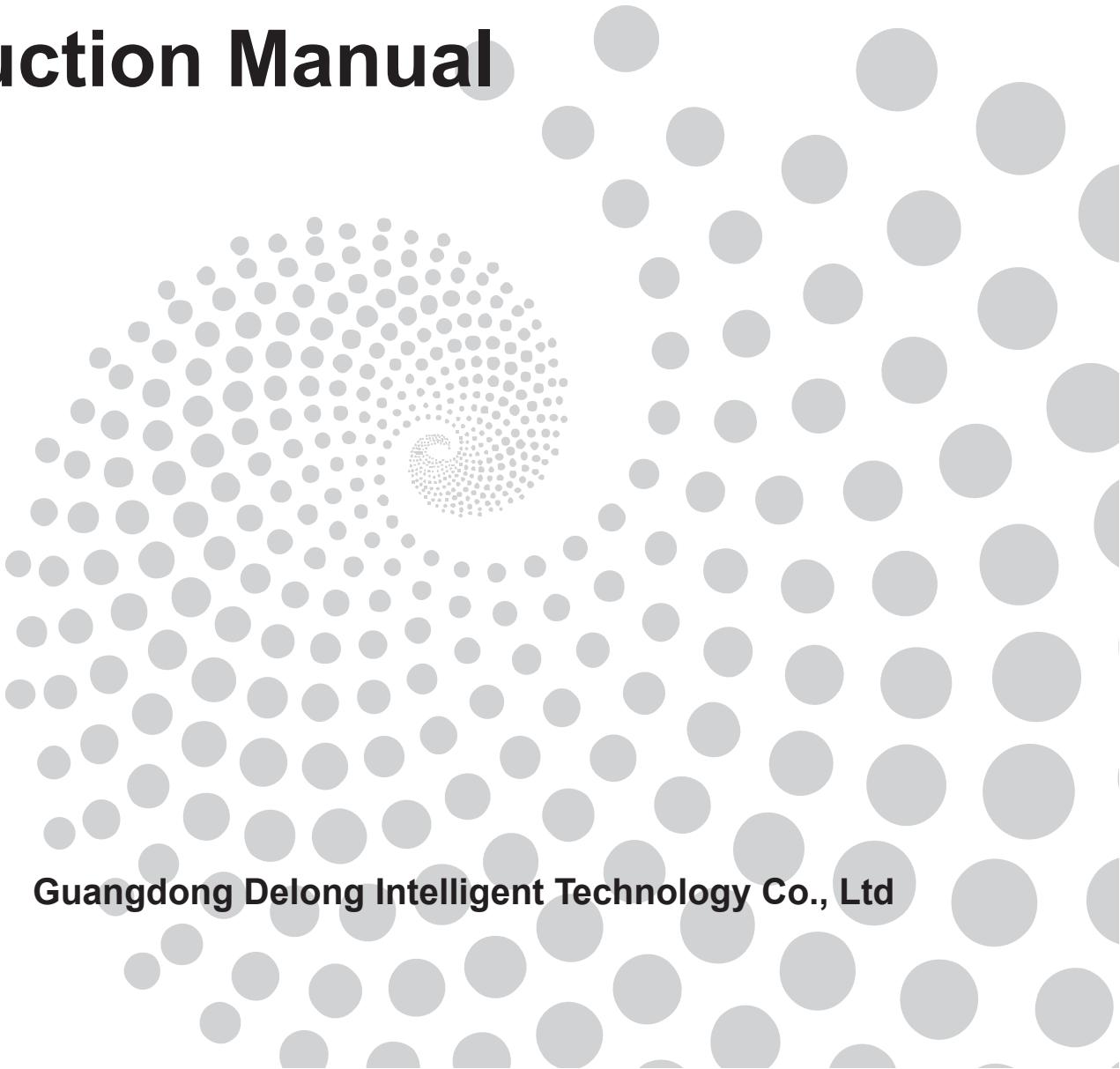
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**DERONI<sup>+</sup>**

# **Delong Aijia Smart Healthcare Robot Instruction Manual**



**Guangdong Delong Intelligent Technology Co., Ltd**

## Company Profile

Guangdong Delong Intelligent Technology Co., Ltd was founded in 2012 and owns 20 million yuan of registered capital. It is a high-tech company who focus on R&D, design, production, sales of the household and medical equipments. After several years of development, the company has expanded rapidly and has a group of professional talents. Relying on advanced concepts, advanced R&D technology, excellent design concept, reasonable budget price, high quality whole process service, it has won the wide recognition and praise from all walks of life through the persistent efforts of Delong team. It takes a leading position in the field of medical equipment in China. The company began to share reform and will land on the new third board listed before next June.





## Our Team

### Authority Wisdom Vitality Creativity

With the corporation spirit of "condensed wisdom, creative future, keeping pace with the time, pursuing excellence, integrity management, social services", we will continue to achieve a century-old brand Delong strategic objective, through scientific and technology innovation continuously.

Relying on advanced medical technology and positions of authority, strength research and development, we have launched many household intelligent products, and have successfully developed China's first intelligent healthcare robot.

Delong Aijia R&D team is consisted of a group of highly educated, experienced innovative talents. There are more than 30 intelligent technical engineers, robotics experts, elite industrial designers to make technical development and product innovation. And we own hundreds of patents.



## Development Strategy



Inherit the high-tech design concept of the world's top brand PRO-AID



Leader's position of CES industry in the world's electronics and medical industry.



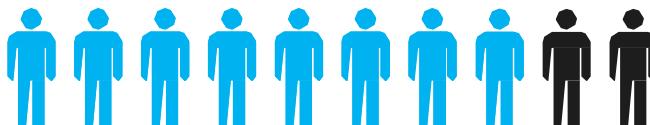
Internet+ wisdom intelligent healthcare device + Miniaturization product ability



Big data + health Cloud platform+Intelligent date process+Intelligent medical service

## Development Prospects

According to the statistics, smart products market is growing up more than 30% annually in recent years. In the next 10 years, China will become the largest market for smart products.



8/10

Healthcare robot is in a new high-tech intelligent field.



8/10

Interesting, life-oriented and innovative medical user experience

Data analysis and management in the health cloud platform upend the traditional medical treatment

# Delong Aijia Smart Healthcare Robot

## New Industry Benchmark, World Debut

- Basic Functions: Oxygen Generation, Nebulization Treatment, Smart Voice Control, Heart Rate and Blood Oxygen Saturation, Fetal Heart Monitoring, Voice Conversation, Remote Monitoring
- Customized Functions: Blood Pressure, Body Temperature, Insomnia Treatment, Sleep Detection

### Six Core Functions



Note: The users won't use the product directly, and need to use the probes or tubes when conducting these functions, that means the product itself will be placed at least 20cm away from human body.

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## Functions:

### Application

The scope of products: For families preparing to take oxygen, medication nebulizer therapy, intelligent voice conversation recognition, oxygen heart rate detection, remote monitoring, fetal heart monitoring, and voice interaction. The product is our company's independent research and development based on public demand. Take to families as portable and practical product.

1. Oxygen generation: Improve the human body's oxygen status; achieve the purpose of nourishing care. It is suitable not only for the elderly, poor physical fitness, pregnant women, students and other college etc who have different degrees physiological hypoxia, but also for people in consumption after heavy physical or mental fatigue, restores physical function. In order to better serve the family health care, and save energy, the user can adjust the flow according to demand. The flow  $\leq 1$ L / min, the oxygen concentration  $\geq 90\%$ ; the flow  $\leq 2$ L / min, the oxygen concentration  $\geq 72\%$ ; the flow  $\leq 3$ L / min, the oxygen concentration  $\geq 55\%$ .
2. Drug Nebulization Treatment: superfine nebulization particle absorb good and quick, oxygen box atomizer produces an average of 0.3um-5um, easier to be absorbed by the human body.
3. Intelligent voice conversation recognition: with conversation, the robot can automatically run the major functions and sing songs.
4. Blood oxygen and heart rate detection: measurement results can detect oxygen saturation, pulse rate and pulse strength; measuring in real-time, fast. From the medical analysis at low altitude environment, blood oxygen (oxygen saturation value) of the normal range as follows: 94% -100%; pulse rate value per minute in a quiet state is between 60-100 times.
5. Remote video monitoring: monitor children, the elderly, to grasp the situation at home. High-definition camera can take video, two-way voice intercom, mobile monitoring. Also with the anti-theft feature, if monitoring thieves breaking into the house, the equipment instantly alarms.
6. Fetal heart monitoring: Check whether fetus is abnormal, according to the fetal heart condition, make the appropriate treatment.
7. Voice interaction: Intelligent voice is not only high in search speed and also accurate in voice recognition; intelligent voice is connected through the network, and will answer questions on the features we want. For example, when we ask "Where is the capital of China", he would reply "in Beijing". Or 1 + 1 equal to what, he will answer equal to 2 and so on.

### Structural Characteristics and Working Principles

Completely plastic shell, safe and reliable

With manual operation, voice intelligent dialogue, easy to use.

Power switch equipped with safety features, more security.

#### 1. The principle of oxygen generation

Using AC220V power as power supply, air as raw material, using high-quality molecular sieve, at room temperature, through a pressure swing adsorption method (PSA), making high purity oxygen according with medical oxygen standard.

#### 2. Drug nebulizer therapy principle

Sudden decompression after the high-speed movement of compressed gas passes a narrow opening; locally generate negative pressure liquid medicine is atomized into a fine mist particle, along with natural breathing directly to the disease site.

#### 3. Intelligent Voice conversation recognition principle

Non-specific speech recognition technology used in intelligent voice, the sound spectrum through MIC input analysis -> extract speech features -> compare and match with a list of key words -> identify the highest scoring output of key words as a recognition result.

#### 4. Heart rate and blood oxygen detection principle

Oximeter principle is based on reducing hemoglobin (R Hb), oxyhemoglobin (O<sub>2</sub> Hb) absorption spectrum characteristic in the red and near red light area as a basis, used Lambert Beer's law establishing empirical data processing. The instrument works by using optical detection technology combined with volume pulse oximetry tracings technology, using two beams of different wavelengths of light (660nm red and 940nm near infrared light) from the perspective clamp finger-type sensor by irradiating human nail tip then photosensitive element acquires the measurement signal, after information is processed by the electronic circuitry and microprocessor, the measured results will be displayed.

#### 5. Remote video monitoring principle

The entire system is Internet-based and run by a local resettlement surveillance cameras, through video server compression uploading to the Internet, and then transmitted to the video monitoring server monitoring center through the network, and then use the mobile Internet, landing to video surveillance server, then you can get monitoring resources. The front surveillance camera is connected wirelessly to the Internet; also you can check video in your mobile phone using the wireless Internet, which bring users new experience.

#### 6. Detection principle of fetal heart monitoring

Fetal heart monitoring is using ultrasonic detection technology to complete the fetal heart rate detection. Its role is by monitoring fetal movement and fetal heart rate to reflect the status of the fetus in the mother's body condition, fetal heart too fast or too slow is problematic performance, you can roughly judge the health of the baby according to the data of the display.

#### 7. Interactive Voice principle

- (1) The voice recognition: use a microphone to record sound, and then send it to an online server, compare it with database to get the content of dialogue.
- (2) A smart answer: use dialogue to search online matching answer, then feedback the answer to the terminal, and finally read out by the software.

### **The major technical indicators**

#### 1. Oxygen generation

- (1) Power: AC220V ± 22V, 50Hz ± 1Hz;
- (2) Input power: ≤150VA;
- (3) The oxygen flow rate: ≤1L / min oxygen concentration: ≥90%; the flow ≤2L / min, the oxygen concentration ≥72%; the flow ≤3L / min, the oxygen concentration ≥55%;
- (4) The output pressure: 0.04Mpa-0.05Mpa;
- (5) The noise: ≤46dB (A).

#### 2. Drug nebulizer treatments

- (1) Power: AC220V ± 22V, 50Hz ± 1Hz;
- (2) Air flow rate: ≥10L / min;
- (3) Noise: ≤46dB (A);
- (4) The atomization rate: ≥0.1mL / min;
- (5) The maximum pressure ≥0.15mpa.

#### 3. Intelligent voice conversation recognition

- (1) Operating voltage: 3.5V - 5V;
- (2) Working Current: identifying 30mA, playing a sound 100 - 250mA;
- (3) Sleep Current: <20uA;
- (4) Recognition accuracy rate: 90% - 96%;
- (5) Recognition distance: noisy environment 10CM, typical indoor environment 60 - 100CM, quiet indoor environment 2 - 4m.

4. Heart rate and blood oxygen detection

- (1) Operating current:  $\leq 60\text{mA}$ ;
- (2) Oxygen saturation:  $70\% \sim 100\%$ ,  $\pm 2\%$ ;
- (3) Pulse rate display:  $25 \sim 250\text{bpm}$ ,  $\pm 1\text{ bpm}$ ;
- (4) Operating mode: Intermittent operation;
- (5) Display: touch-screen display;

5. Remote video monitoring

- (1) Rated voltage:  $\text{DC}5 \pm 0.3\text{V}$ ;
- (2) Energy consumption: Rated power:  $3.5\text{W}$  (IR LED turn on) / Max:  $7\text{W}$  (P & T turn on);
- (3) Operating conditions: Temperature:  $-10 \sim 70\text{ }^{\circ}\text{C}$ , Humidity:  $10 \sim 90\%$  non-condensing;
- (4) No solidification: Temperature:  $-30 \sim 70\text{ }^{\circ}\text{C}$ , humidity:  $5 \sim 90\%$  non-condensing;
- (5) Operating System: Built-in Linux OS;
- (6) System security: 3 User Management permissions: Administrator, Camera control, view;
- (7) Online users: support for four simultaneous users watch online video;
- (8) The image sensor: 1 / 4inch 720p Progressive CMOS sensor;
- (9) Performance: Support: AWB, AGC, AEC;
- (10) Support:  $3.888\text{mm} \times 2.430\text{mm}$ ;
- (11) Signal to noise ratio:  $\geq 39\text{dB}$ ;
- (12) Minimum illumination:  $0.1\text{Lux} / \text{F1.2}$  (color mode),  $0.01\text{Lux} / \text{F1.2}$  (B & W mode);
- (13) Wide:  $4.2\text{mm}@F2.0$ ;
- (14) Night Vision: dual filter automatic switching; 11pcs  $850\text{nm} \Phi 5\text{mm}$  IR LED: IR emission from the farthest reaches 10m;
- (15) Encoding format: H264 baseline profile @ levels: 3.1 / Motion-JPEG;
- (16) The pixel: 720p / VGA / QVGA;
- (17) Bit rate:  $128 \sim 4096\text{kbps}$ ;
- (18) Maximum frame rate: 30fps / 25fps (720p);
- (19) The video controller: You can adjust the brightness, contrast, saturation;
- (20) Enter: built-in microphone;
- (21) Output: one output (interface 3.5mm) built-in speaker ( $8\Omega 1\text{W}$ );
- (22) The sampling frequency: 8KHz / 16bit;
- (23) Coding format / bit rate: ADPCM / 32kbps;
- (24) Bit rate: 10Base-T / 100Base-TX, RJ45 interface;
- (25) Network protocols: TCP / IP, HTTP, SMTP, FTP, DHCP, DNS, DDNS, NTP, UPnP, PPPoE, P2P etc;
- (26) A wireless network: WiFi 802.11b / g / n;
- (27) Rotation angle: Tilt angle rotation:  $355\text{ }^{\circ}$ ;
- (28) The maximum speed:  $70\text{ }^{\circ} / \text{S}$ ;
- (29) Preset: Support 15 preset points;
- (30) Alarm detection: support;
- (31) Alert behavior: one output / one output / upload pictures to FTP server.

6. Fetal Heart Monitoring detection

- (1) Operating voltage:  $3.7\text{V}$ ;
- (2) The probe operating modes: continuous wave Doppler;
- (3) The probe operating frequency:  $2.0\text{MHZ} \pm 10\%$ ;
- (4) Fetal heart rate range: 50 to 240 beats / min;
- (5) Resolution: 1 beat / min;
- (6) Accuracy:  $\pm 2$  beats / min;
- (7) Ultrasonic probe output power:  $P < 10\text{mW}$ ;
- (8) The ultrasonic probe effective emission area:  $208\text{mm}^2 \pm 15\%$ ;
- (9) Display: touch-screen display;

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7. Voice Interaction: According to GB/T 21023-2007;

8. Weight: 13kg;

9. Dimensions: 62.4 \* 32.1 (cm);

10. Model number: LS-713-5

11. Electrical Category: class II type B;

12. Work system: continuous operation.

This equipment is not permitted to be used in flammable and explosive gases occasions.

## Normal Working Condition

Environment temperature range: 5 °C -40 °C

Relative humidity range: 30% -80%

Atmospheric pressure range: 0.086MPa-1.106Mpa

Note: When the storage temperature is below 5 °C, before using the device, it should be placed in a normal operating temperature environment for more than four hours.

## Installation and use

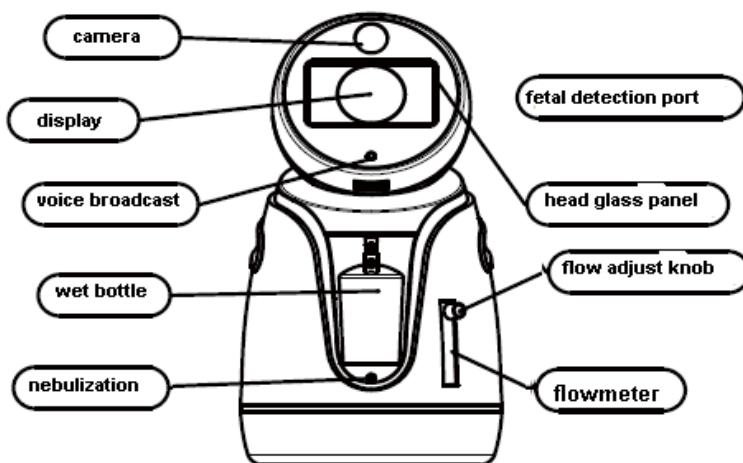
(A), check the box

Before installing and operating the product, first check the appearance of the product if it is good or not, then check product's accessories and quantity which listing in the description if it is match or not.

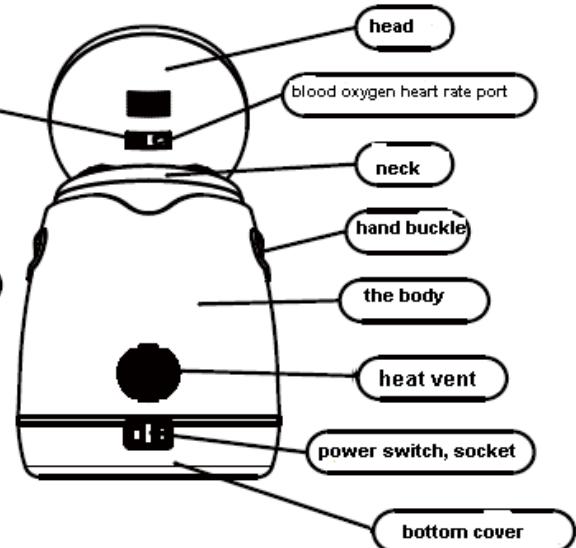
If defect something, please contact the vendor or manufacturer immediately.

## Appearance and figure of Structure

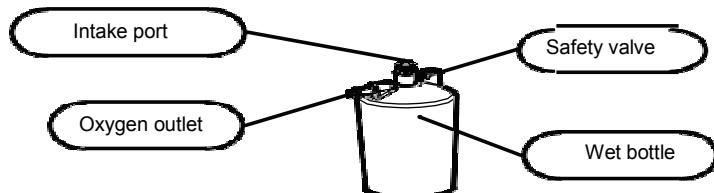
Main equipment (figure 1)



main equipment (figure 2)



Wet bottle part (figure 3)



## Product Components



Nebulizer



Headsets type oxygen tube



Nasal tube oxygen tube



Heart rate blood oxygen probe



Fetal detection probe



power supply cable

1. Main equipment	1 unit	Heart rate and blood oxygen probe	1 set
2. Nebulizer	1 unit	Fetal detection probe	1 set
3. Headsets type oxygen tube	1 unit	Power supply cable	1 unit
4. Nasal tube oxygen tube	1 set	Instruction manual	1 unit

## Preparation work

### 1. Oxygen generation Operation

#### 1) Oxygen generation preparation

Unscrew the wet bottle, add pure water or (distilled water) to "MAXIMUM" between "MINIMUM" logo (if needed, can be prescribed mixed with other drugs in the water), and gently tighten the wet bottle.

Power: connect the power plug to a power output socket.

Press the power switch to the "I", at this moment the display panel shows the smile mode, at the same time with a sound "tick", show oxygen generation and other major functions properly working good.

When power on, it can be freely converted to other functions. After open the oxygen at about two seconds, the oxygen function goes into the normal operating state. In the oxygen studio, every few seconds issue "da - puff -" sound; it is normal commutation exhaust sound.

#### 2) Oxygen operation

Rotating flow adjustment knob to the flow rate you need, reading numbers shall prevail black float center. Anti-clockwise rotation as the flow rate increases, the clockwise direction is reduced. Wet bottle bubbles emerge, oxygen output port of panel should export oxygen. Connect with the oxygen tube and oxygen output port, the other end with the patient wears well, and then can start oxygen. At the same time it can be converted to other functions mode.

#### 3) Oxygen time setting

Click on the "timing selection", the value from 10 minutes, 15 minutes, 20 minutes, 25 minutes, 30 minutes, displayed as set up time, click "open" started timer mode.

Note: The oxygen time and flow quantity of oxygen, please follow doctor's advice.

## 2. Drug nebulization operation

Press the power switch to the "|", at this moment the display panel shows the smile mode, at the same time with a sound "tick", show nebulization and other major function properly working good. When power on, it can be freely converted to other functions. Connect with the nebulization tube and gas output port, the other end with the patient wears well, or containing good to start medication nebulizer treatment. After approximately two seconds, atomizer into the normal operation state. Atomized studio issued "xuxu" sound is normal drug nebulization treatment process.

## 3. Intelligent voice conversation recognition operation

1. After turn on the equipment, the user must call "Ai jia" first, in order to enter the voice recognition status.

After each call of "Ai jia", it takes 2--3 seconds to perform command recognition.

2. Enlarge the font as voice recognition password (after finish each broadcast, it needs to wait 3--4 seconds and within 20 seconds before the next command, after execute each command more than 20 seconds, the system automatically exit the voice recognition status, you must first call "Aijia" to re-enter the voice recognition status, after that you can go ahead with the next command.)

(1) Open the oxygen (execute opening the oxygen, play "Dear master, I has already opened the oxygen making function for you")

Example: "Ai jia" (wait for the equipment to play voice "Dear master, is there anything I can do for you" at the end, wait for 3-4 seconds) --- "Open oxygen making "(after voice over, waiting 3-4 seconds) ---" Close oxygen making"(later to play the voice over, wait for 4 seconds).

(2) Close the oxygen (execute closing the oxygen; play "Dear master, I has already closed the oxygen making function for you").

(3) Open the atomization (execute opening the atomization, play "Dear master, I have already opened the atomizing function for you")

(4) Close the atomization (execute closing the atomization, play "Dear master, I have already closed the atomizing function for you")

(5) Open the detection (execute opening the heart rate and blood oxygen inspection, play "Dear master, I have already opened the heart rate and blood oxygen inspection function for you ")

(6) Close the detection (execute closing the heart rate and blood oxygen inspection, play "Dear master, I have already closed the heart rate and blood oxygen inspection function for you")

(7) Open the fetal detection (execute opening the fetal heart rate detection, play "Dear master, I have already opened the fetal heart rate function for you")

(8) Close the fetal detection (execute closing the fetal heart rate detection, play "Dear master, I have close the fetal heart rate function for you")

(9) Sing song/ sing songs (play music)

Click on the touch screen "time display area" to suspend the broadcast actual program, and can execute the following command:

1, (pause play program)

2, Continue (continue to play program)

3, The last one (play previous program)

4, The next one (play the next program)

5, Click touch screen to stop playing

6. Volume down (then keep it down)

7, Volume up (then keep it up)

(10) Happy Birthday (Play birthday song)

Click on the touch screen "time display area" to suspend the broadcast of the program, and can execute the following command:

1, (pause play program)

2, Continue (continue to play program)

3, Click touch screen to stop playing

After the turn on the equipment, user first call "Ai jia" and going into a simple conversation, at the end of each play, we need to wait for 2-3 seconds for the next conversation.

(11) The master: How are you? Robot: Dear Master, I am glad to see you. Can I help you?

(12) The master: What's your name? Robot: Dear Master, My name is Ai jia, I am your little healthy and happy expert.

(13) The master: how old are you. Robot: Dear master, I am three years old.

(14) The master: where are you from? Robot: Dear master, I come from a mysterious planet.

(15) The master: what can you do? Robot: Dear Master, I can not only protect your health, but also sing and tell stories.

(16) The master: Did you have eat? Robot: Dear master, I am charged with electricity instead of dishes.

(17) The master: How are you? Robot: Dear master, if you are in a good mood, I am happy

(18) The master: What's your dream? Robot: Dear master, your everlasting health and happiness are my dream.

(19) The master: Can you dance. Robot: Dear master, I have not yet learned how to do it.

(20) The master: You're so wonderful. Robot: Dear master, thanks for your compliment, I'll keep on going.

(21) The master: you can leave. Robot: Dear master, if there is nothing else, I may leave now.

Instructions:

- 1, After opening the oxygen (within 20 seconds), you can call "close the oxygen" to close the oxygen, nebulization and oximetry detection and other functions; if you over 20 seconds, the equipment will play "Dear master, if there is nothing else, I may leave now ", then you need to call "Ai jia" refers again to perform the functions.
- 2, When equipment recognition in an error, it will play "dear master, please say it again", then if you want it to perform instructions, you need to call the related instructions, such as "open the oxygen";
- 3, During the time of broadcast programs (such as music), since the volume is high, may affect voice recognition results, so please forgive it.
- 4, Users should use standard American English voice control.
5. Start singing function, click time display area, you can instruct the volume up and up, or down and down, next song, previous song function, click standby mode into standby status, press the standby for longer time can be shut down. In case of other functions are not open, you can use singing function.

#### **4, heart rate, blood oxygen detection operation**

Press the power switch to the "|", at this moment the display panel shows the smile mode, at the same time with a sound "tick", display heart rate detection of oxygen and other major functions properly working good. When power on, it can be freely converted to other functions. After opening the heart rate and blood oxygen detection function about 2 seconds, oxygen transport into the normal heart rate detection. Heart rate, blood oxygen detection studio in heart rate detection external ports oxygen, the heart rate detection probe inserted into docking port oxygen.

1. Pinch clip open
2. Inserting a finger into rubber channel (preferably fully inserted into) and then release the clip
3. During the process, it is best that do not shake the finger which is in testing; also the human body is better keep quiet.
4. Reading data directly from the display.

#### **5, remote video monitoring operation**

Press the power switch to the "|", at this moment the display panel shows the smile mode. After power on in 1 minute and accompanied with sound "ding-dong", it means you can connect the mobile phone with remote video monitoring function. In the case of power on, you can directly use this function.

# Plug & Play (P2P) network camera

## Quick Installation Guide



Android



iOS

For more information, you can visit our online disc website  
<http://cd.365cam.net>

## Software Installation

Make sure the phone connected to the network (3G/WIFI).

Android mobile phone users can scan QRCode of Android from the Home page to download and install the app, or go online disc, Huawei application market, Android market, 360 applications store, SnaPea application store, Google market (foreign customers) search for "P2PWIFICAM" to download and install. Apple clients can go directly to the Apple store search keyword "P2PWIFICAM" to download and install.



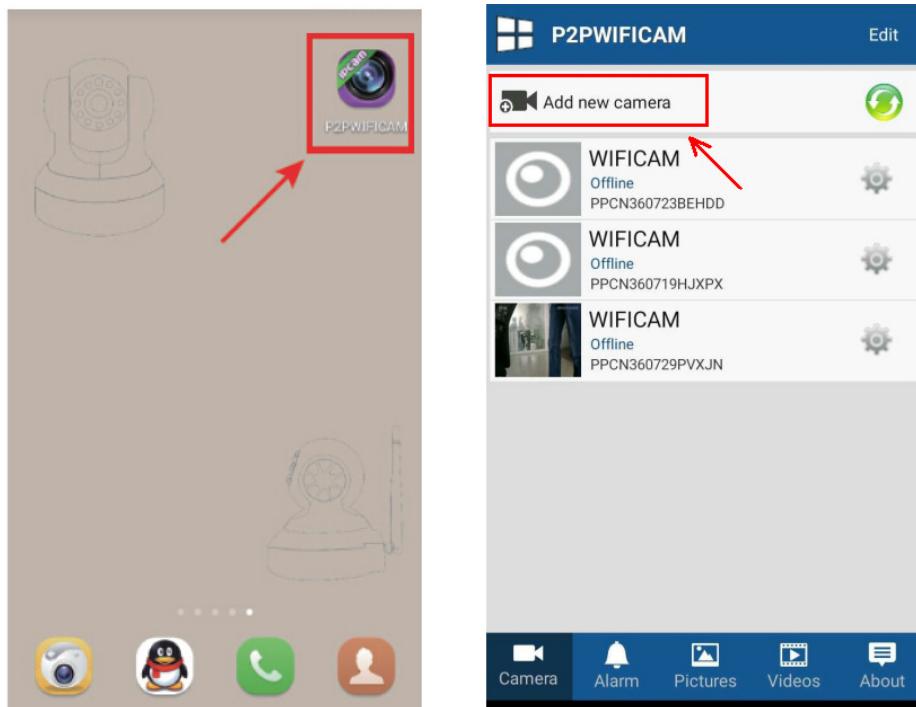
iPhone



Android

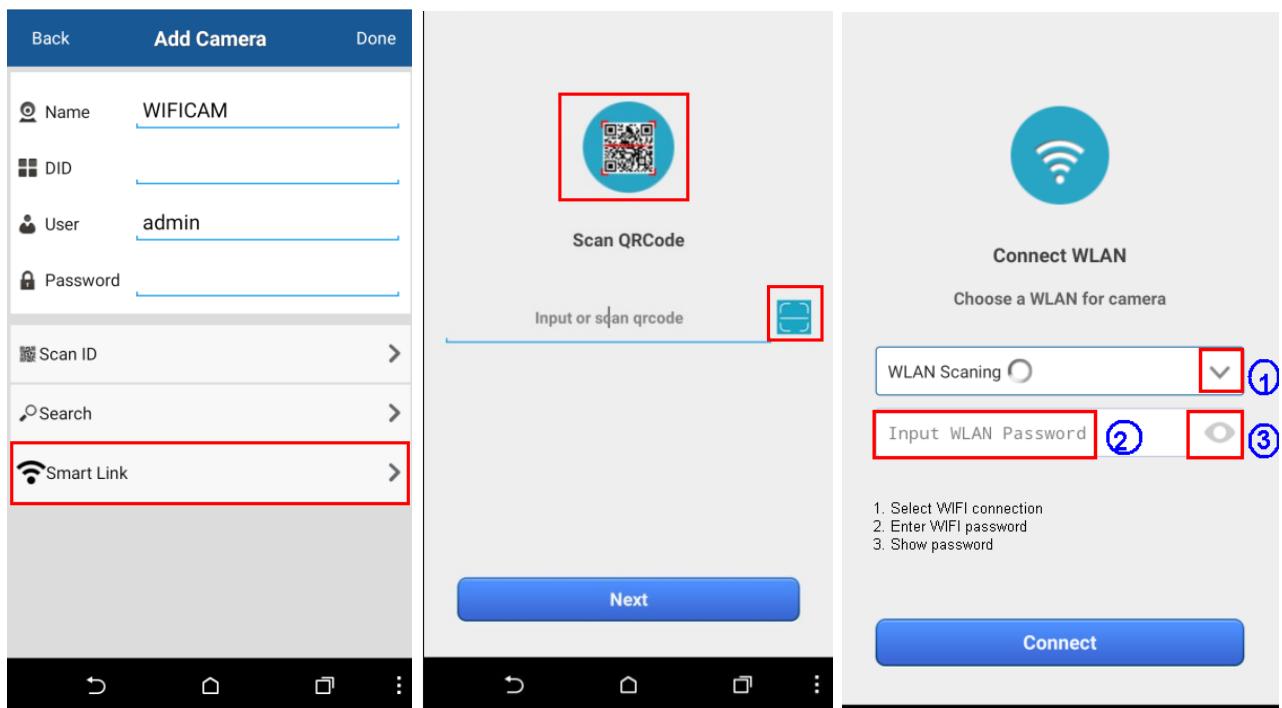
## Add Camera

After finish installation, appear the software icon in the desktop, run the program, click Add new camera



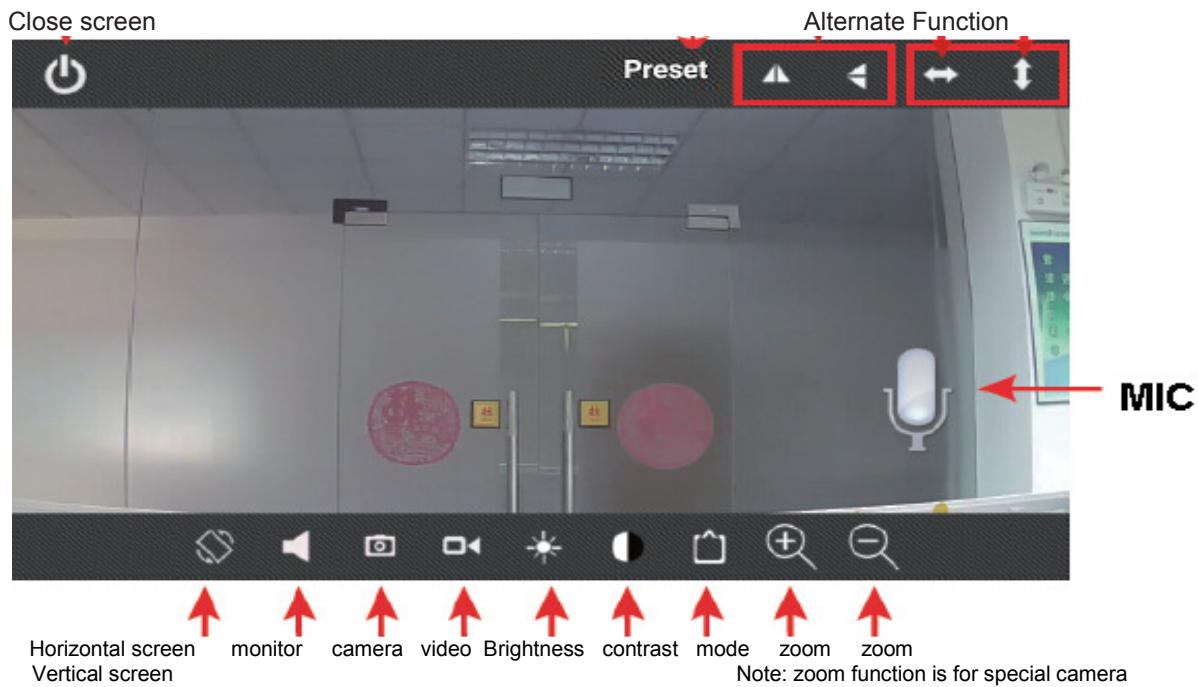
Smart Configuration: Free network cable, one key configure multiple cameras WIFI, configuration automatically add scanning device ID after completion of the remaining devices through the LAN configuration search or QRCode added.

- 1) Free plug network cable, connect power, and start mobile phone software P2PWIFICAM
- 2) When you hear the camera issue a sound "ding-dong", open the software intelligent connection and click Next
- 3) Enter the camera ID or QRCode scanning camera and click Next
- 4) Select WIFI, enter the password and click WIFI connection, wait for the configuration



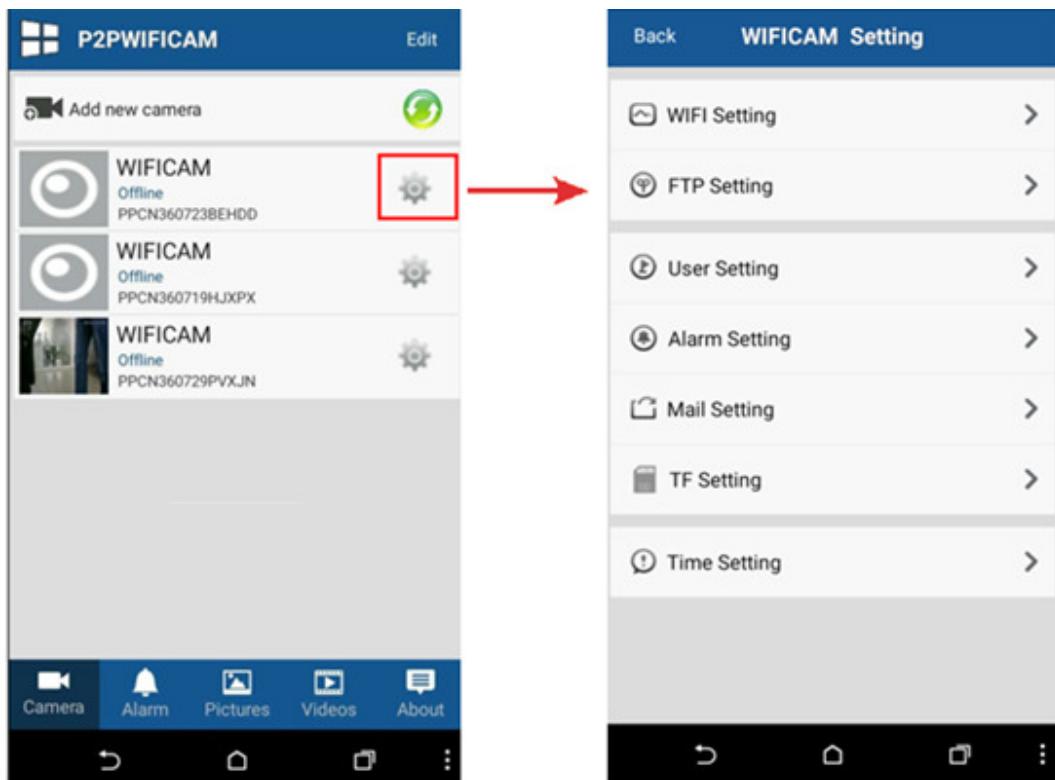
## Real time video

Click on the camera list and select one of the equipments, get into real-time view interface. Click anywhere on the reality interface PTZ operation buttons and video settings. As the picture shows:



## WIFI Camera Setting

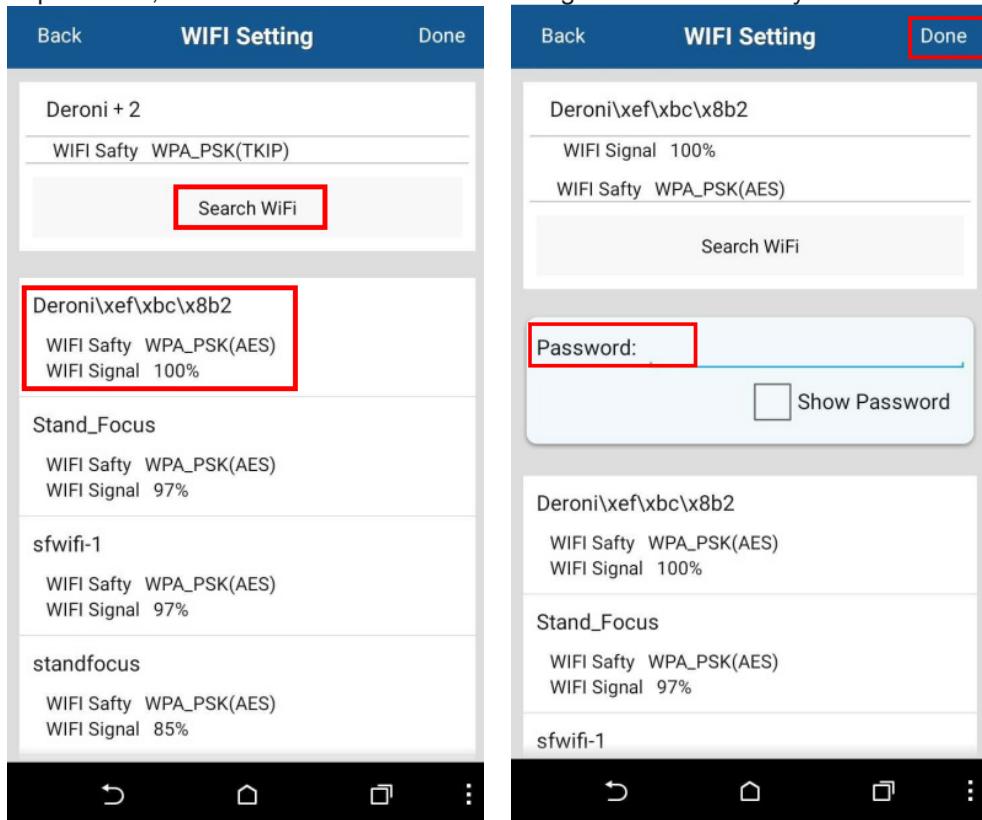
Click on the main screen, the camera setting icon, enter the camera settings interface



## WIFI Setting

Since the camera has already been configured through smart WIFI connection, so here WIFI settings can change a separated camera as different WIFI signal.

Click WIFI settings, enter WIFI search interface, click on the search to the wireless router signal, enter the password, click on the button “done” to change WIFI successfully.

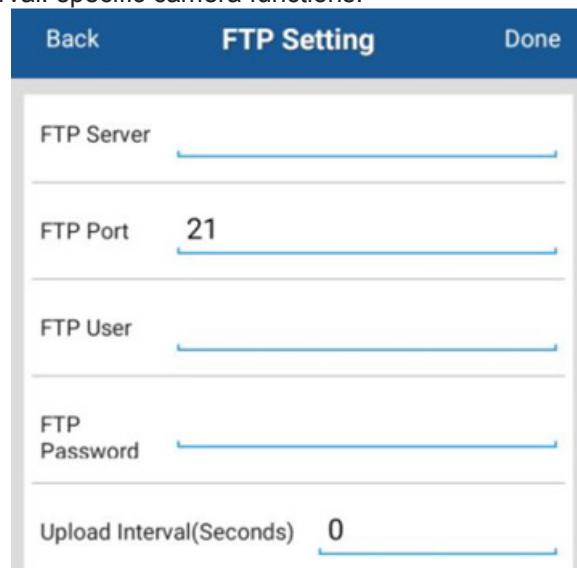


## FTP Setting

Click and enter into FTP setting

Enter the FTP server address, port, user name and password then lick Finish, when setting alarm and uploading pictures, if an alarm occurs, then camera automatically take a screenshot and upload it to the FTP server.

Upload picture interval: specific camera functions.



## User Setting

Click and enter into User Setting. Modify the current user name and password, after modify job done, re-enter a user name and password to login the camera.

Administrator: have all rights

Operator: Can control PTZ and watch videos

User Setting		
Back	User Setting	Done
<b>Administrator</b>		
User: _____		
Password: _____		
<input type="checkbox"/> Show Password		
<b>Operator</b>		
User: _____		
Password: _____		
<input type="checkbox"/> Show Password		

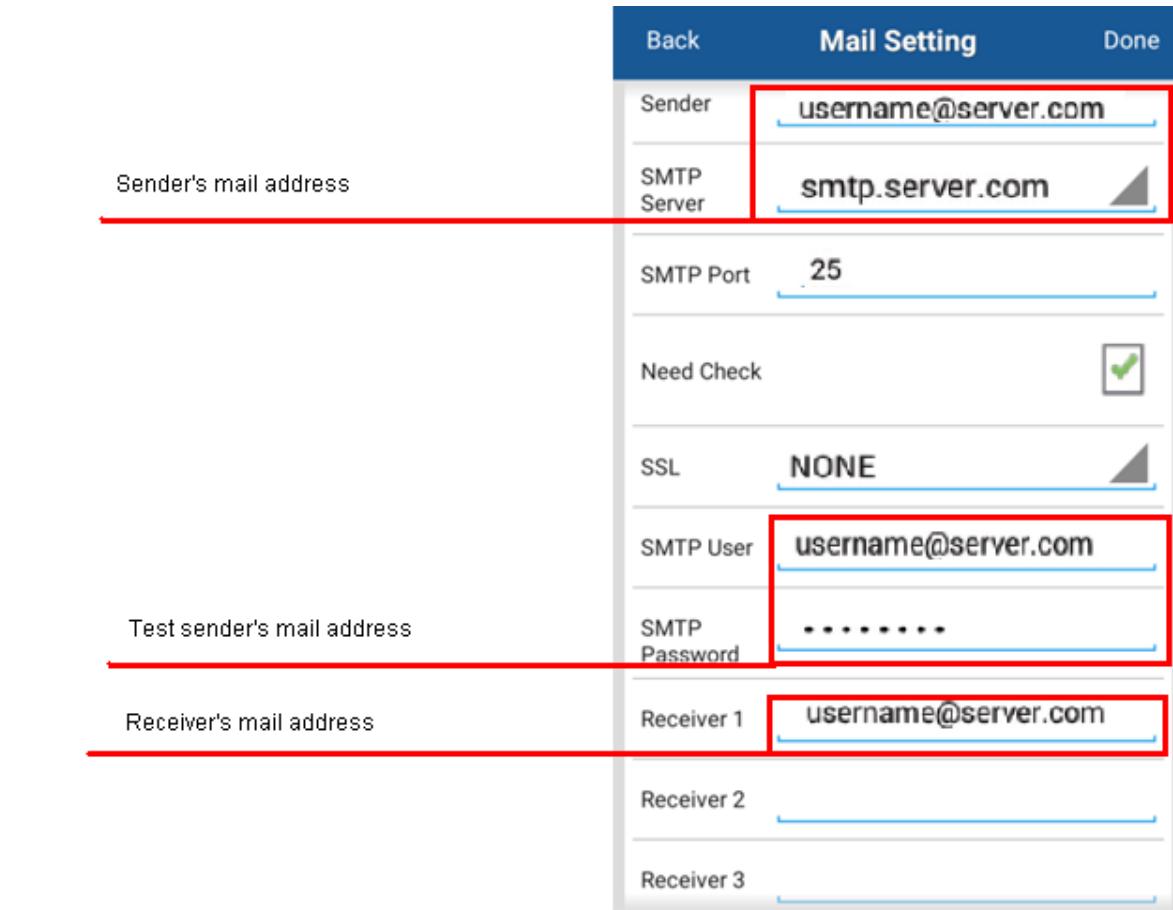
## Alarm Setting

Click and enter into Alarm Setting. There are motion detection alarm and input & output alarm. Upload image on alarm: This function is to upload pictures which captured when alarm to FTP server

Alarm Setting		
Back	Alarm Setting	Done
<b>Motion Detection Armed</b>		
<input type="checkbox"/>		
Motion Detection Sensitivity <span style="float: right;">High</span>		
<b>Motion Detection Armed</b>		
<b>Alarm Input Armed</b>		
<input type="checkbox"/>		
Triggered Level		
<b>Alarm Trigger event</b>		
Alarm preset linkage		
<input type="checkbox"/>		
IO Linkage on Alarm		
<input type="checkbox"/>		
<b>Output Level</b>		
<b>Mail Notification</b>		
<input type="checkbox"/> Alarm Mail Notification		
<b>Upload Image</b>		
<input type="checkbox"/> Upload Image on Alarm		

## Mail Setting

Click and enter into Mail Setting. The camera will automatically send the image which has been captured after alarm to the specified mailbox.

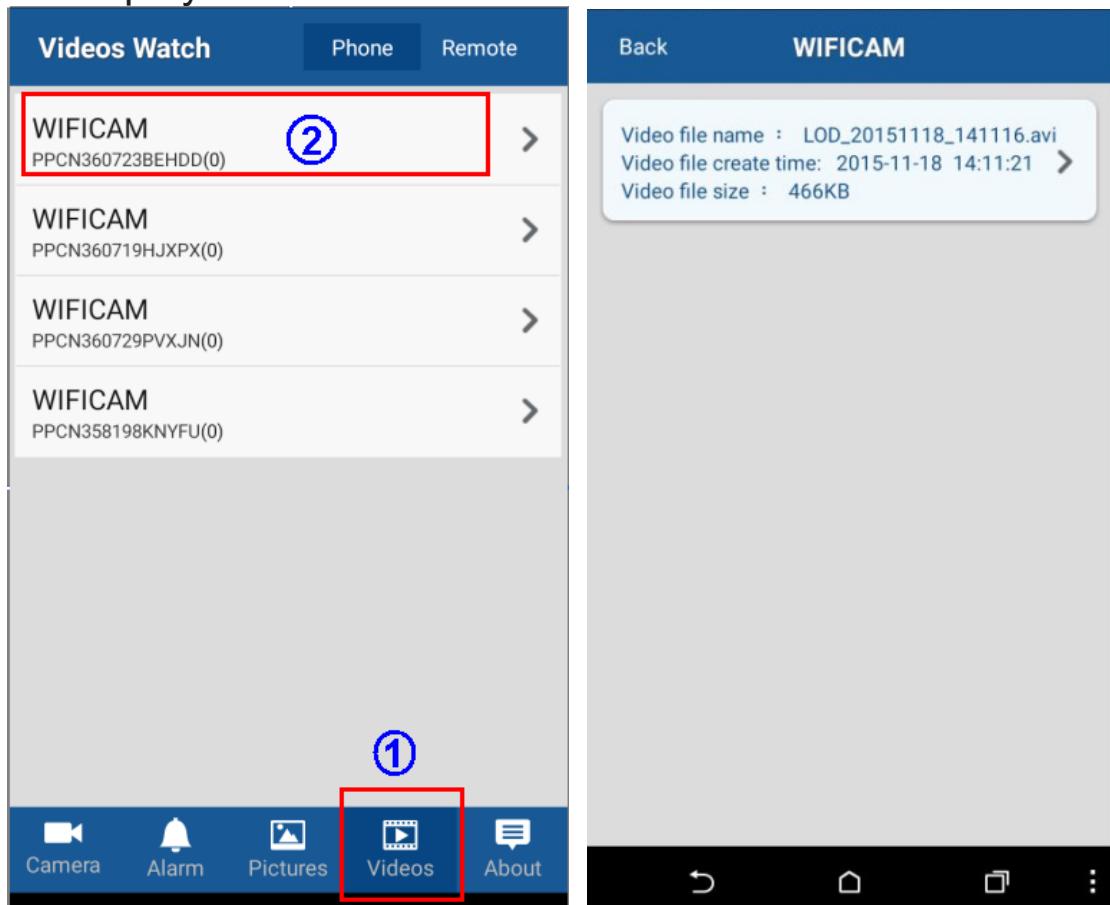


## Multi-screen view

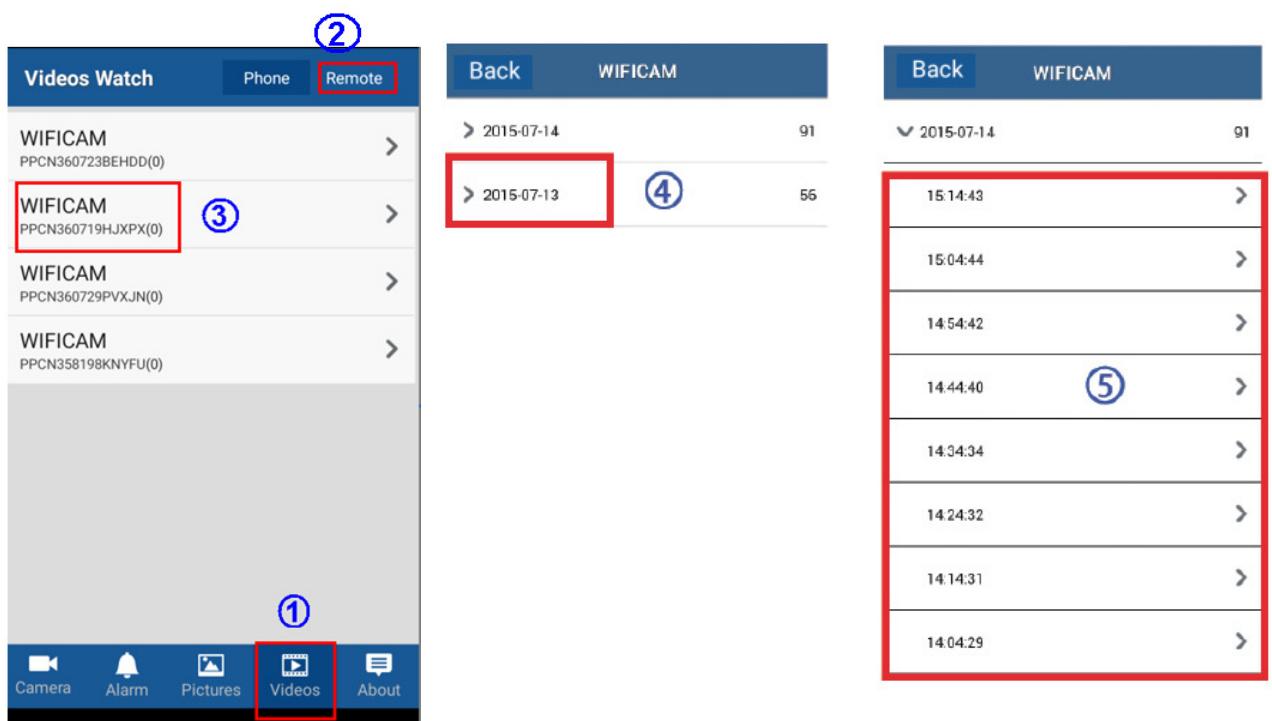
Click the top left corner of the main interface, and enter into Multi-screen view interface, click the right side camera and add to real time preview.



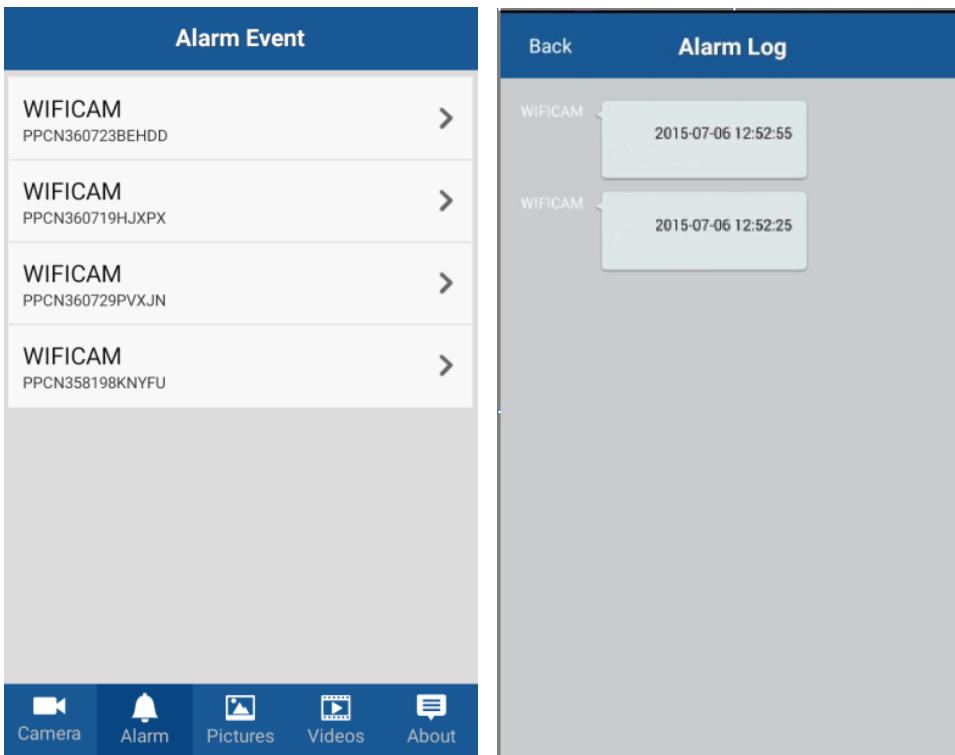
## Video playback



## Remote Video playback

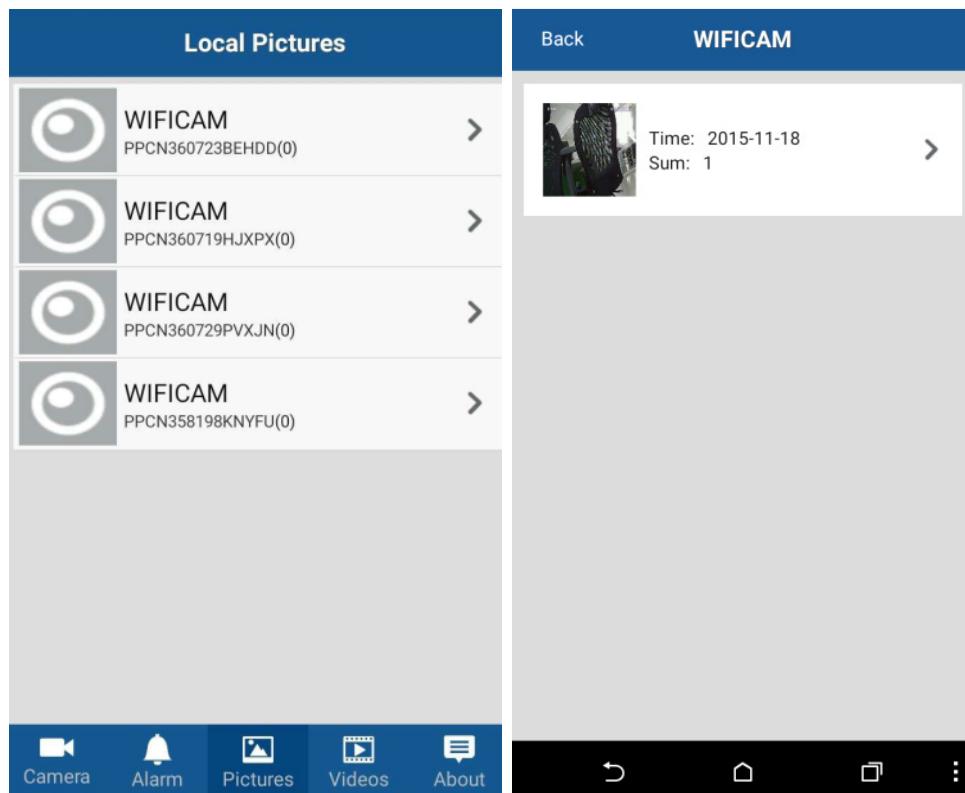


## Alarm log



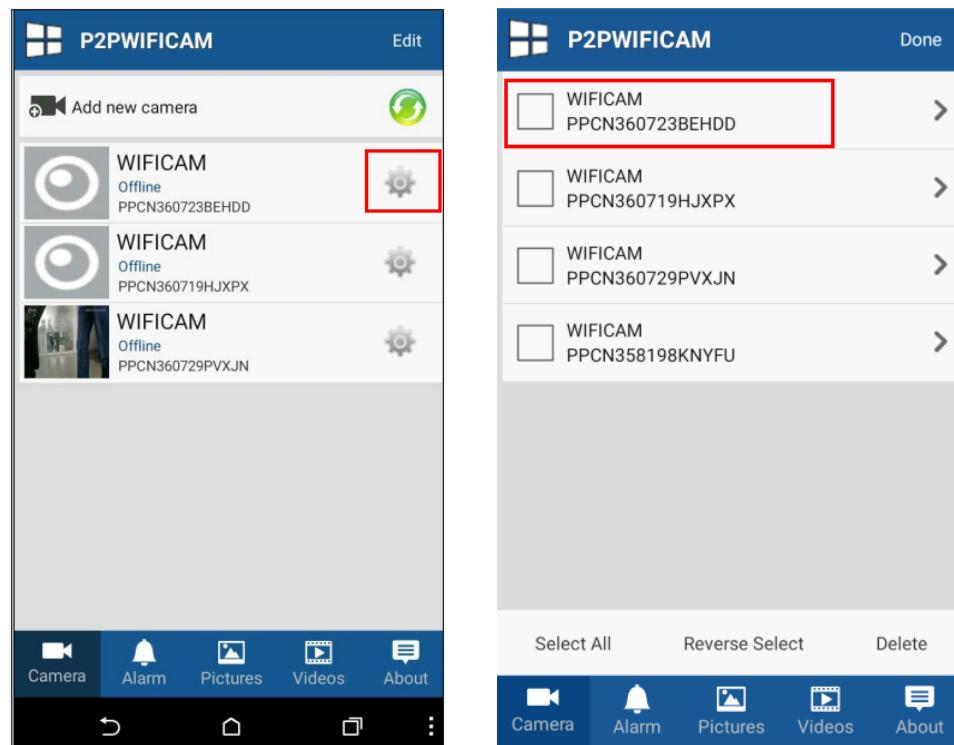
## Local Images

Real time screenshot saved here.



## Edit Camera

Click edit button in the menu, then you can choose camera setting to delete items, and also you can change any camera's password.



# Instructions, About

## ► Instructions

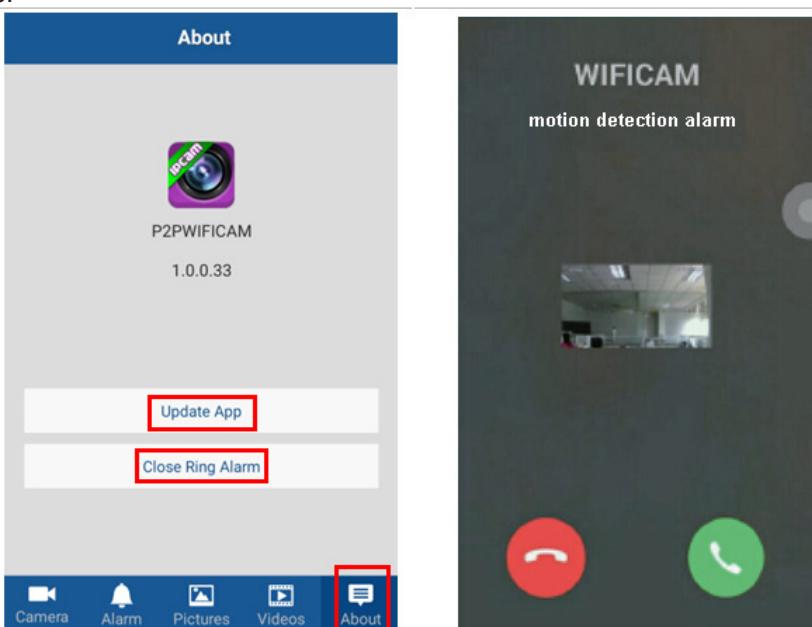
Android client has one more function than Apple client, which is alarm log function, other functions not changed.

## ► About

Click to view the application version number

Version Update: Click to detect version, when a new version is released, prompt to update

Ringing alarm: When set motion detection alarm, if triggered, the mobile client will receive similar as shown below alarm page; click answer then goes into the real time image. Default open status, click to close.



## 6. Fetal heart rate detection operation

(1) Press the power switch to the "I", at this moment the display panel shows the smile mode, at the same time with a sound "tick", display a positive fetal heart rate detection, other major functions also working good. When power on, it can be freely converted to other functions. After opening the fetal heart rate detection function about 2 seconds, fetal heart rate detection transport into the normal heart rate detection. Fetal heart rate detection studio in heart rate detection external port, a docking port insert fetal heart rate detection probe.

(2) The best time to listen to the fetal heart rate is after breakfast and dinner, within 30-60 minutes. Environment, surrounded by no electromagnetic or radiation interference in the corresponding pregnant belly Location coated ultrasonic coupling agents, to find the best location auscultation (i.e. clear sound, noise, less interference). Usually gestation age along with the fetal position approach to a little bit left or right. But should ensure the probe surface probe is placed on the fetal heart position in the umbilical connection 1/3 shame, With gestational age increased, position move up, the probe should be completed in contact with skin. When monitoring operation, the digital display shows the actual value of fetal heart rate, the window also shows the number of fetal movement and current work status.

(3) Listen to fetal heart posture: pregnant mothers using fetal equipment, please find a more comfortable, quiet and undisturbed environment, lie flat, slightly elevate the head a little, legs straight, relax the mood, even you are quite expect but not to be too excited, ha ha. Listening to the fetal heart is always been a pleasant thing, of course. Meanwhile, when lying, the fetal position will be closer to the maternal abdominal wall, also the probe is closer, fetal heart rate is easier to be heard.

Note: Only the probe 01 is placed in the best position can get accurate monitoring data. 02 Do not place the probe to places where can hear a strong placenta or umbilical cord blood flow volatility tone sound. 03 If the pregnant woman supine position, and normal fetal position, you can get the most clear fetal heart tones in the lower part of navel midline. In the extended monitoring period of time, pay attention to prevent the emergence of low blood pressure of pregnant women. Best to let pregnant women take the lateral position or sitting position which can make it more comfortable. 04 unless audible fetal heart sound signal, otherwise it is impossible to monitor fetal heart rate.

(4) Select a good position of the fetal heart to put away the probe. You can clearly hear the fetal heart beat; fetal heart rate can be displayed in the display window. Fetal heart rate is usually 120-160 beats / minute which is normal. If fetal heart rate is too low, it may be the fetus is in a hypoxic state; if the fetal heart rate is too high, due to the poor physical condition of the mother herself!

## 7. Voice Interactive Operation

Enter into the voice interactive interface, if you want to trigger the voice recognition, first click on the screen display area. Ask to the robot for questions, then pause and wait.

Ai Jia will have interactive conversation with you, please wait until Ai jia finishes, tap the screen again to return to the main screen.

When you first enter the voice interactive interface or AiJia has not connected to the Internet, interactive voice interface will display a message requesting a connection to the Internet, please click on the pop-up window OK button, and then will enter into the WiFi setting page, please check the top right corner of the leftmost slide button to see if it is displayed or not, if displays close , please click or slide open, then select your WiFi network in WiFi list shown below, enter your password, click on the link, after WiFi is displayed connected, after then, please click on the screen at the bottom of the left-most column where is the Back button to return to the voice interactive interface, you can start a voice interactive operation.

\*\*\* If you do not enter into the WiFi interface, please exit the voice interactive interface, re-enter, the system will prompt you to set up WiFi again.

\*\*\* If you click Back button before you have WiFi connection, or your WiFi network cannot connect to the Internet, voice interactive unction may not be used normally.

\*\*\* When using this function, will shield intelligent voice recognition.

## Safety Precautions

1, In order to prevent a power outage or oxygen making may fault, people who need oxygen urgently and critically ill patients must configure other backup oxygen supply equipments (eg: oxygen cylinders, oxygen bags, etc.)! This equipment does not consider doing in life support or life-sustaining!

2, oxygen can combustion, when the equipment is working, is strictly prohibited fireworks;

3, when environment has heat, sparks and open flames or other factors, do not use oxygen function;

4, This device contains a high voltage, please do not disassemble;

5,All accessories of this equipment, have passed rigorous testing, safety and reliability, if use it with other manufacturers' accessories may affect the performance of the product;

6, It is prohibited to move this product by the cord or the hose;

7, This product rated voltage of 220V, please use the secure qualified socket;

8, In order to prevent accidents, do not allow children to operate this equipment alone, when oxygen, do not can wound the hose on neck; when elder with disability use it, there must be a guardian to assist;

9, When this product is working, directly separate oxygen from air is used as breathing, so do not use it in smoke and poisonous gas environment.

(A), Before installation

The equipment is prohibited to be upside down and lying!

Such as when using a instability power supply voltage, exceeding AC220V ± 22V range, please install 500VA regulator before using!

Please choose a qualified safety socket and a wiring board with safety electrician certification!

Non-professionals do not open the case!

(B), place location

The equipment should be placed in the indoor ventilation and avoid direct sunlight, surrounded by walls and other objects away more than 10cm.

The equipment should not be placed in the following conditions: near heat and light and shade fire, wet, no shelter, hot, cold environment.

Do not place debris and water-oil container.

Prohibit placing any debris at the bottom, placing the exhaust port blockage caused by high temperature lead to equipment stops working or oxygen concentration decreased.

## Warnings

- 1, Before initial use, please incline the product, then subtract the fixed transportation tie at the bottom;
- 2, When working, there will be intermittent exhaust sound, it is a normal phenomenon;
- 3, When add water to the wet cup, do not exceed the maximum water level; this product during transport, need to pour water out from the wet cup, avoid water returns back;
- 4, Please make sure that before starting the equipment, first confirm the oxygen out port, air intake of the bottom, the heat sink behind are unblocked, in order to avoid overheating and stop working;
- 5, This product is suitable for home nourishing, not for medical treatment.
- 6, Head rotation angle cannot exceed 360 degrees.
- 7, Do not uninstall "Ai jia smart" application, otherwise it will cause the machine does not work properly.

## Power off, Standby state

- 1, During using process: Click "standby" (when voice recognition function is not close), allowing the Tablet PC into standby mode, a voice says "Ai jia", then Tablet PC automatically wakes up.
- 2, After finish using: first unplug oxygen tube from the input oxygen port, nebulization tube, unplug the oximetry extension cords, close the remote video monitoring, unplug the fetal heart rate external cable. It is recommended to press the "standby", turn off the Tablet PC, (with this operation, pull the power switch to "I", at the same time power on, the voice shouted, "Ai jia", the Tablet PC can automatically boot) off the power switch then unplug the power cord, cut off the power.

## Related symbols and their meanings

symbol	meanings	symbol	meanings
	AC		attention, see manual
	class II equipment		BF type equipment
	power off		power on
	Oxygen saturation		pulse rate (beat/min)

## Operational approach

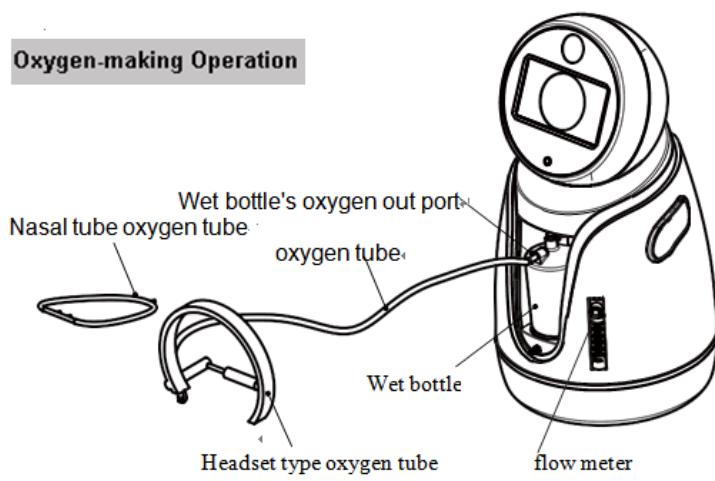
### Basic Functions

#### Display window



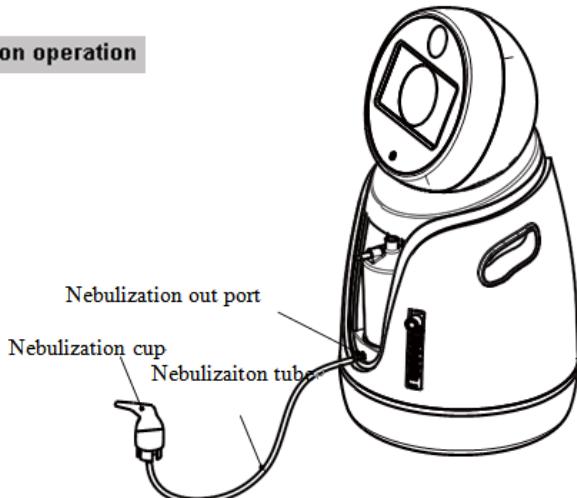
- 1, Connect the power to main equipment, turn on the switch.
- 2, Start and switch into the main interface.
- 3, Manually major function is available in the main interface, but also can use voice conversation operation to operate the equipment according to customer's demand.

#### Oxygen-making Operation



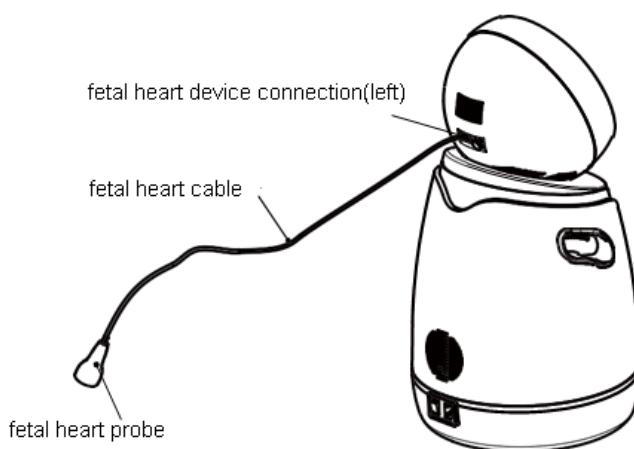
1. Put one fifth pure water into wet bottle.
2. Connect one port of oxygen tube to the out port of wet bottle
3. Place the headset type oxygen tube or nasal oxygen tube connect to the oxygen tube.
4. Open the oxygen, clockwise rotate the flow meter, adjust the flow to bit 1, then begin to take oxygen.

#### Nebulization operation



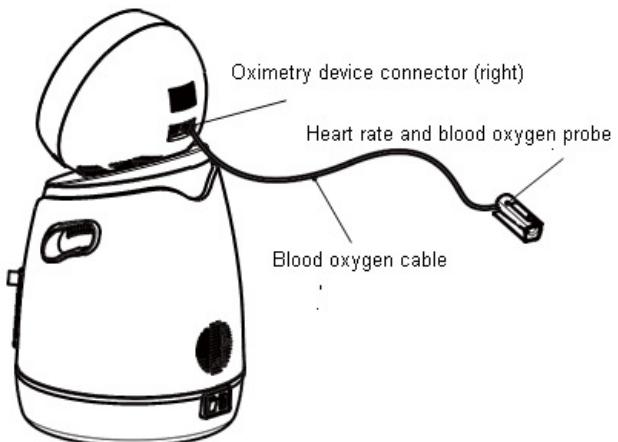
1. Put one fifth drug liquid into the nebulization cup.
2. Connect one port of nebulization with out port.
3. Connect the nebulization cup with the nebulization tube.
4. Open nebulization function, open the mouth and put the nebulization tube into the mouth.

## Fetal heart operation



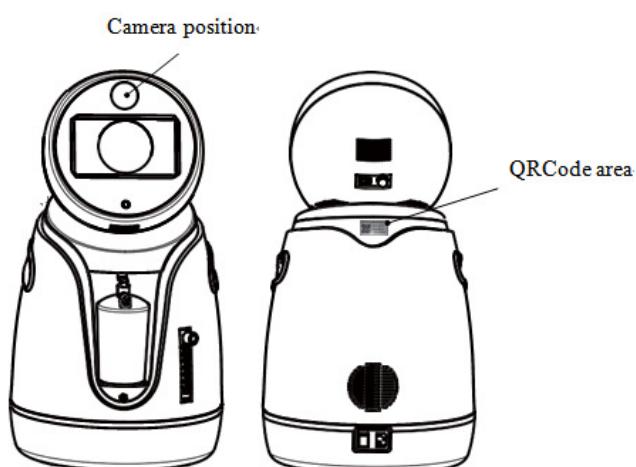
1. Connect the fetal heart cable and fetal heart device connection
2. Gently put couplant to detect fetal heart part.
3. Open the fetal heart rate detection; put the fetal heart probe in full contact with skin for monitoring fetal heart rate.

## Blood oxygen operation



1. Connect the blood oxygen cable with oximetry device connection.
2. Press down the blood oxygen probe, after the other side open, insert the forefinger into the probe. Clip it.
3. Open the heart rate and blood oxygen detection, wait a few seconds, then display corresponding data.

## Wireless monitoring operation



3. Open P2PWIFICAM software → add camera→ Smart Connect → Next→scan QR Code → enter WiFi password → next, connection successful, WiFi network success.

## **FCC STATEMENT:**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## Repair and Parts Replacement Form

Service Center (filled by serviceman)

DATE	Repair item	Replacement part	Quantity	Repair fee	Technician sign	User sign

## The User Information Registration Form of Delong Aijia Smart Robot

More instructions:

1. In order to facilitate accurate contact and protect your legal rights, please carefully fill the form below.
2. The following table should be confirmed by customer and seller, to be valid.
3. The table below together with purchase vouchers valid for warranty.

User name		Equipment code	
Telephone			
Mobilephone		E-mail	
Post code		Purchase date	
User address			
Purchase add.			
Test condition			
Notes:			
Sales:	Customer:	Supplier:	





## Warranty conditions

1. Product warranty card is used when your equipment fails in use, have it to seek product maintenance services, Please take good care of it (if lost not reissued).
2. Please fill the warranty card with the pen in neat block letters; in order to avoid misunderstanding when we contact you.
3. After equipment failure, please contact our headquarters as soon as possible, in order to avoid delay your use and maintenance period.
4. Even during the warranty period, the right of the following circumstances, repair maintenance fees is charged (service fee + parts fee + site fee).
  - 1) Customer improper use, maintenance, damage caused by improper storage.
  - 2) Failure of non-authorized dealers or manufacturers' technicians' repairs.
  - 3) Movement or falling causes malfunction or damage.
  - 4) Due to force majeure or accidental disasters (such as: earthquake, fire, flood, accident, etc.) caused failure or damage.
  5. Before use it, user should read <Delong Aijia intelligent service robot instructions manual>.
  6. If necessary to be repaired, please show the warranty card.
  7. If you cannot provide product warranty card, please consult with your dealer or customer service department for repair.
  8. If the product is used in non-designated function disorders, will be regard as using in abnormal environment (or improper), our company does not assume warranty responsibility.
  9. After repair job and charged by designated service center, if same problems happen within three months, our company will take responsibility and repair it for free.
  11. The nebulizer, oxygen components, oxygen probe, fetal probe is consumable goods, not covered by the warranty.
  - 12 You are welcome to provide valuable advice for our product quality and after-sales service.
  13. If you have any doubts about our products and services, please contact us via the following way:
    - 1) Call our customer service hotline: 4000-888-713
    - 2) Visit our official website: [www.delongal.net](http://www.delongal.net) check local service center or telephone service.





# Customer Feedback Form

## Customer Feedback Form

Dear Customer:

Your comments and suggestions will improve the quality of our products and services, please fill in the following feedback from.

We eagerly look forward to your valuable comments and suggestions about our work, thank you!

Your name			Sex		
Age			Company name		
Address			Post code		
Contact phone			E-mail		
Industry	<input type="checkbox"/> Telecom operator <input type="checkbox"/> ISP/ICP <input type="checkbox"/> Enterprise <input type="checkbox"/> Equipment manufacturer <input type="checkbox"/> PC network hardware manufacturer <input type="checkbox"/> Software manufacturer <input type="checkbox"/> Chanel/sales/integrator <input type="checkbox"/> Government <input type="checkbox"/> Research institutions <input type="checkbox"/> Media/public relations/advertising personnel <input type="checkbox"/> Education <input type="checkbox"/> Health Industry <input type="checkbox"/> Others				
Position	<input type="checkbox"/> Civil Servants <input type="checkbox"/> Business management <input type="checkbox"/> Engineering and Technology <input type="checkbox"/> Marketing/sales/customer service <input type="checkbox"/> Public relations, advertising <input type="checkbox"/> Reporters/editors/IT observer <input type="checkbox"/> Teachers/teachers and students/research <input type="checkbox"/> Others				
Product quality					
Item					
Function and efficacy					
Quality and price					
Convenient and practical					
Style and life					
Service					
Item	Satisfaction	Quite satisfied	Normal	Dissatisfied	Remark
Service attitude					
Service responsible					
Repair quality					
Repair time					

Please provide your valuable comments and suggestion for our products and services to us:

Friendly Reminder:

Please fill the product quality information feedback form with standard block letters, clearly, send it to us. Thank you for your recognition and support of our work.

