



**LIFA**air

**Authorized by LIFAair International Limited**

China-Finland joint venture Made by Dongguan LIFAair Technology Ltd. Company.  
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**LA510 Smart Air Purifier**

Please carefully read this user manual before using the product, and keep it for further reference.

Warning: Before first time use, you must take out all HEPA filter and remove the moisture proof protective bag on the activated carbon barrel.

Thanks: Thank you for selecting LIFAir product! You are about to enjoy the Finnish technology that brings superb, professional experience!

**Important safety information** 

- Only use attachments/accessories specified by the manufacturer.
- Keep this apparatus away from children to avoid accident.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instruction.
- Make sure the machine stands upright, never stand obliquely or upside down when used.
- Unplug this apparatus when unused for a long period of time.
- Do not use this apparatus in room with large temperature difference to avoid water condensation inside.
- Protect the power cord from being walked on or pinched .
- Please turn off and unplug this apparatus before move, clean and replace the filter.
- Do not use this apparatus near high temperature and humidity such as bathrooms.
- Never open power adapter to avoid electric shock and impact warranty.
- For body safety and apparatus completeness, never sit on or lean upon it.
- Do not put objects into the grill, the movable portion, the air inlet and outlet.
- Do not place the product directly under air conditioner to prevent condensed water droplets.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- To prevent electric shock, be sure to follow the requirements of the method and manner of this manual for cleaning and maintenance, maintaining the product, please do not try any other way for maintenance.
- that the appliance is only to be used with the power supply unit provided with the appliance.
- that the appliance must only be supplied at safety extra low voltage corresponding to the marking on the appliance.

**Packing list**

air purifier main unit x1   activated carbon barrel x2   HEPA filter x2   monitoring controller x1  
 power cord x1   power adapter (for air purifier) x1   power adapter (for monitoring controller) x1  
 monitoring controller charging cable x1   instructions manual x1   warranty card / certificate x1



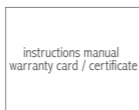
air purifier main unit



filter (used inside main unit)



activated carbon barrel (the outer surface is pre filter, used inside main unit)



monitoring controller



power adapter (for air purifier)



power adapter (for monitoring controller)

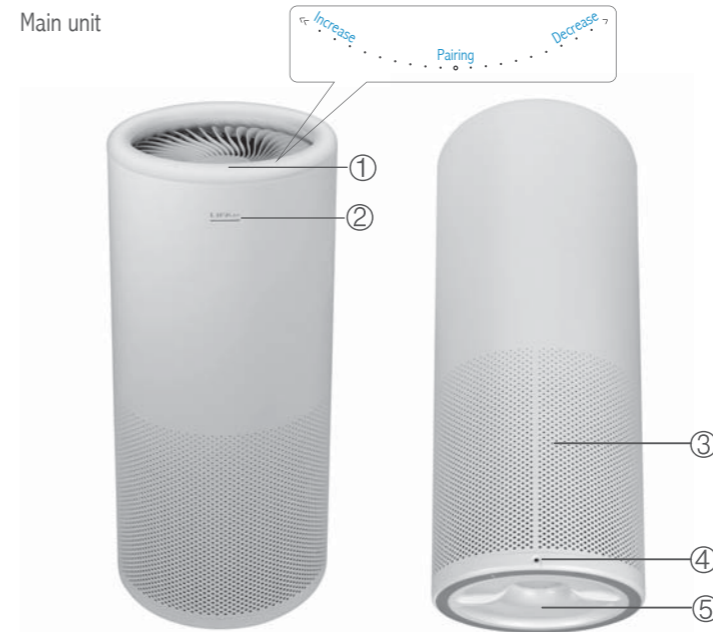


monitoring controller charging cable



power cord

Main unit



- ① Touch control circle: change the wind speed and enter pairing mode
- ② Working status / power indicator light

|  |
|--|
| In the mode of monitoring controller not connected |
| Green light slowly flash: standby mode             |
| Green light flashing: response touch control       |
| Green light rapidly flash: pairing with controller |
| Green light on steady: operating mode              |
| In the mode of monitoring controller is connected  |
| White light slowly flash: standby mode             |
| White light flashing: response touch control       |
| White light on steady: operating mode              |

- ③ Air intake
- ④ DC power connector (connect to the power adapter)
- ⑤ Bottom cover

Monitoring Controller

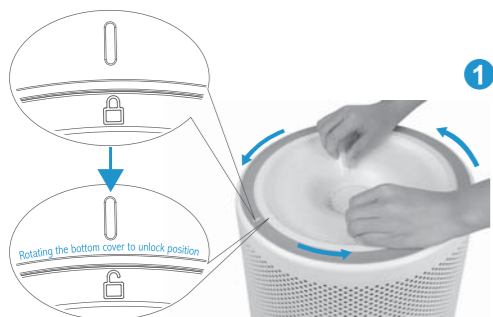


- ① Light sensor: brightness of the display is automatically adjusted according to the ambient brightness
- ② On/Off key: press and hold: switch on/off press: display time, turn on/off the screen
- ③ Air intake area
- ④ PM2.5 sensor air inlet
- ⑤ Power connector: dedicated charging power line
- ⑥ S/N code: serial number of monitoring controller(need to fill in when for warranty) CODE code: device identification code used to unlock APP remote control function. After searching monitoring controller with APP, click icon of controller and input this code to open APP remote control function. Note: 1. This code is not case-sensitive 2. this code is the last six digits of device MAC address
- ⑦ Exhaust air area

**Note:** Do not block the intake and exhaust area, pad made by plush fabrics class will clog the exhaust area.

## First installation

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With a soft towel or protective pad covering on the ground, flip the main unit upside down, rotating bottom cover to unlock position (Make sure that the DC power is cut off.).



Remove the bottom cover



Hold the top of HEPA filter by hands and remove it



Open the protective bag to find the side handle of activated carbon barrel, take out the carbon barrel (By the same way, take out the carbon barrel and filter in the lower part)



Remove the protective bag of carbon barrel



Put the filter into the carbon barrel

## First installation

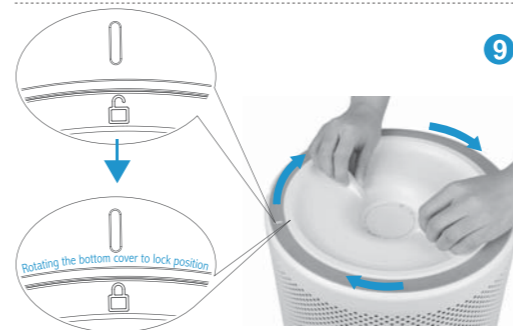
4



Put the carbon barrel and filter combination into the main unit, gently shake it to the right place (Repeat step 6 and 7, put the second layer of the carbon barrel and filter combination into the main unit)



Close bottom cover



Lock bottom cover (be sure to rotate the bottom cover to the lock position)



The installation is completed, flip the main unit upside

## Connect the power supply



Remove the protective strip on the DC power connector, take out the power cord and connect to the power adapter. Connect the adapter to the main unit and then connect to the power source. The main unit will be in standby mode, LED lights will be flashing slowly.



### Correct positioning

In order to have better performance of the air purifier, when use of the main unit, air inlets should maintain a certain distance from the wall and other obstructions.



### Manually control wind speed

The machine is designed with 112 wind speed and can precisely control the PM2.5 level.



Touch the top circle of the main unit and rotate clockwise to increase wind speed (Continuously rotate clockwise until the power light is constant on for maximum wind speed.)



Touch the top circle of the main unit and rotate counter-clockwise to reduce wind speed (Continuously rotate counter-clockwise until the power light blinks slowly in a breathing pattern for zero wind speed and enter standby mode).

Note: The pictures in this manual are schematic and may be biased with the physical, please prevail in kind.

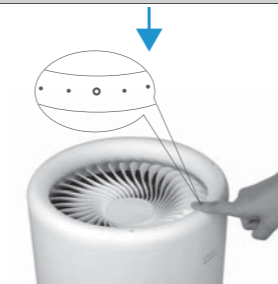
## Monitoring controller pairing with the main unit

### Pairing

Monitoring controller works collaboratively with the main unit through a special Bluetooth wireless connection. This machine has been paired at the factory, you can directly use, if not automatic pairing, please follow the steps as below.

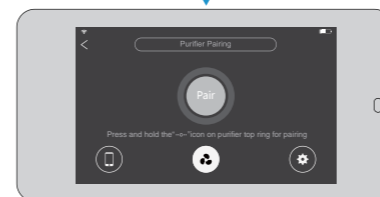


1. Press and hold on/off key on the monitoring controller to turn on the controller, the main unit displays a green light.

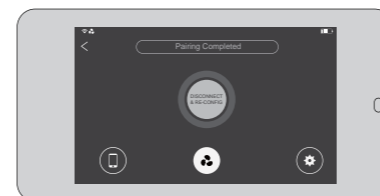


2. Slide the touch circle counter-clockwise so that the green light blinks slowly, with one finger press and hold on the "o" position on touch ring more than five seconds until the green light flashes rapidly, then the main unit is into pairing mode for 30 seconds.

NOTE: When pairing, the main unit must be into standby mode (i.e. green light blinks slowly in a breathing pattern).



3. Click settings on the screen → → , monitoring controller and the main unit are into self pairing process.



4. If the pairing is successful, the main unit power/status indicator turns white, the monitor prompts "Pairing Completed", if fail, repeat above steps.

Note: Due to product updates and software upgrades, the description here may not match the user interface, please prevail in kind.

## Monitoring controller testing items



Your smart air purifier monitoring controller can monitor carbon dioxide (CO<sub>2</sub>) concentration, formaldehyde concentration, PM2.5 concentration, and automatically remote the purification. The concentration of PM2.5 and formaldehyde are controlled in the healthy range. After pairing with the main unit, it can also monitor temperature and humidity. The monitoring controller will monitor the air quality and can divide into six levels: good, moderate, unhealthy for sensitive groups, unhealthy, very unhealthy, hazardous.

Click "CO<sub>2</sub>" is the concentration of carbon dioxide.  $\leq 1000$ ppm is good. Recommend to open window for ventilation if exceeded. It takes approximately 40 seconds for the measurement value to go stable.



Click "HCHO" is the formaldehyde concentration. China Standard is  $\leq 0.08$ mg/m<sup>3</sup>; United States Standard is  $\leq 0.06$ mg/m<sup>3</sup>



Formaldehyde sensors inside the controller operates based on electrochemical principles, it is easily interfered by other non-formaldehyde gases, especially alcohol and perfume. Formaldehyde in the room releases continuously and slowly, not increases suddenly in a short period of time, so if the reading rapidly increases, please remain calm if it may not be formal.

Click "PM2.5" to display real-time measurements of PM2.5. It takes about 20 seconds to go stable. China Standard 75 $\mu$ g/m<sup>3</sup> or less is moderate; American standard is 35 $\mu$ g/m<sup>3</sup> or less is moderate.



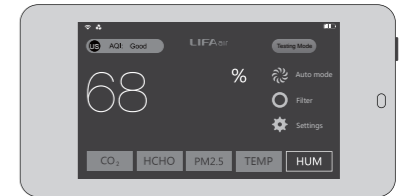
Note: PM2.5 sensor is at the top left corner behind the screen, for measuring PM2.5 concentration of airflow, this point should align with the airflow direction.

## Monitoring controller testing items

Click "TEMP" to show the temperature in the position of the purifier.



Click "HUM" to show the relative humidity in the position of the purifier.



## Continuous short-term monitoring of the monitoring controller

Click "Testing Mode", the monitoring controller will be continuously monitored for 5 minutes, or else click the screen, the monitoring controller measures only one minute.










Note: The monitoring controller paired with the main unit (white light indicated), even if the screen only displays the clock (plugged in) or black screen (battery-powered), the monitor will automatically and regularly monitor air quality, and control the operation of the main unit.

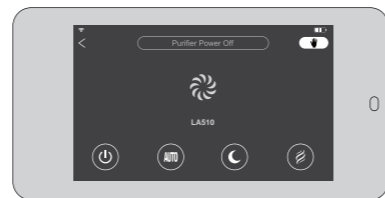
## The use of monitoring controller

The monitoring controller is the core of intelligent control, it should as far as possible online pair with the main unit.

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### 1. Control panel: Click to enter the mode selection interface

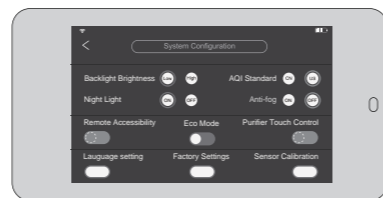
-  Purifier Power Off
-  Auto mode: According to the real-time indoor air quality, smart auto-adjust the wind speed of the main unit (recommend use)
-  Sleep mode: Ultra-low noise operation, to create a comfortable sleep environment (non-intelligent mode, the main unit continue to run at this speed)
-  Turbo Mode: Run at full speed, rapid purification (non-intelligent mode, fast run for 90 minutes and then automatically switches to medium speed to run)
-  Manual mode: You can manually adjust the wind speed of the main unit  
click  to return to mode selection interface  
click  to return homepage of monitoring controller



Note: when the main unit is in the white light and allows to touch, touch the main unit touch circle to change the wind speed, the control mode changes to "manual", but will automatically resume "auto" after five minutes. If you want full manual control for wind speed, you can turn monitoring controller into manual mode, or when the monitoring controller is disconnected with the main unit (power/status light is green), touch and operate the main unit. The main unit will always keep the manual setting, the fan never automatically switch back to the "auto" mode. Do not recommend the main unit to work in "manual" mode, because it will cause unnecessary energy waste and extra filter usage.

### 2. Click on the monitor, you can set the function

- Backlight Brightness:** Low → dark mode; high → bright mode. In both modes, light sensor automatically adjusts the brightness according to the environment.
- AQI Standard :** Select the air quality standards (CN or US standard) as the control standard. Select U.S. standard, purifiers work more strongly, especially at night.
- Night Light :** Turn on or off nightlight function. If you turn on this function, during 22:00 - 06:00 period and under connected with the power adapter condition, touching the screen will have high-intensity illumination for 3 minutes, used as nightlight.
- Anti-fog :** Please note that the interference function of anti-fog is only effective in extending power source and low air humidity situation.
- Remote Accessibility:** Allow or prevent the phone APP to operate main unit, in disabled state, the phone APP can only view and cannot control.
- ECO mode :** Turn on or off the smart ventilation detection function. After turning on, the operating mode will be subject to status of window control, to achieve energy-saving effects and reduce the use of filters (because when the window opened, whether air quality meets standard or not, the running of air purifier would be meaningless).
- Purifier Touch Control :** Turn on or off the touch function, to prevent others from touching inadvertently.
- Language settings:**  → Chinese language;  → Traditional Chinese;  → English language
- Factory settings :** Click the confirmation, the monitoring controller settings will be restored to factory settings and the WiFi internet networks will be disconnected , but the Bluetooth connection with the main unit remains connect.
- Sensor Calibration :** Perform zeroing for sensors according to the screen tips to ensure the accuracy of the sensor.




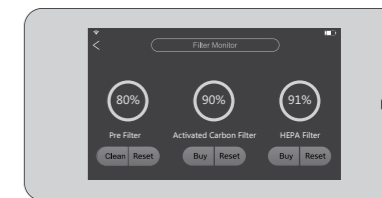
## The use of monitoring controller

The monitoring controller is the core of intelligent control, it should as far as possible online pair with the main unit.



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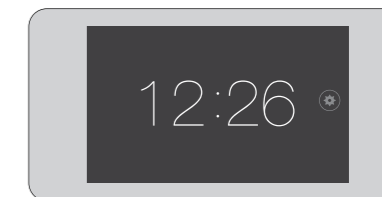
### 3. Filter Checking

Click  Filter to enter the filter monitoring interface  
Please clean or replace the filters when the percentage is approaching 5%.  
After cleaning or replacing the filter, please click "Reset" and confirm, in order to ensure to restart intelligent monitoring.



### 4. The clock display / adjustment

- In the case of an external power supply situation, long time having no operation (approximately 60 seconds) or pressing the on/off button of the monitoring controller, the screen will automatically display the time (when using the battery power, the screen does not display the time). If you turn on night light function during 22:00 - 06:00, touch screen then the display will show the clock in white background and black words for three minutes.
- On clock display interface, click  on the right side of the screen, you can manually set the time, after the setup is completed, click  to save the current time setting.

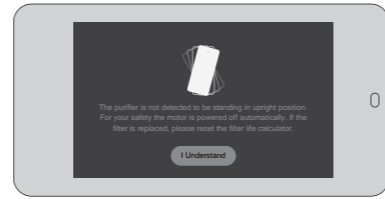


Note: When the monitor is connected to a WiFi network, the time will be automatically set according to network time, including automatic adjustment according to the local time zone. Recommend using WiFi connection, you will enjoy a high precision clock with automatically adjusting.

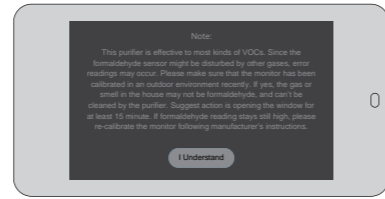


**Main unit tumble warnings:**

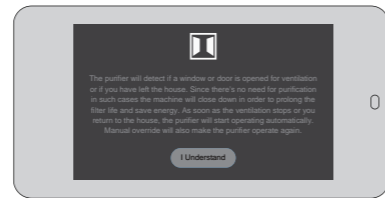
When main unit purifier is operating, it cannot be tilted, otherwise this screen appears on the monitor.

**Formaldehyde reading error:**

Because formaldehyde sensor is not only sensitive to formaldehyde, when abnormal formaldehyde readings detected, the screen changes to this picture.

**Ventilation warnings:**

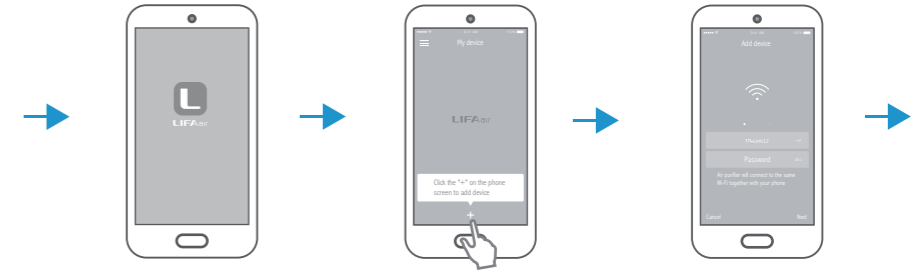
When you open windows, open doors or go away from home, the monitoring controller will detect abnormal, this screen will appear. Main unit will stop working when window is opened. After you complete the ventilation, doors and windows closed or return home, then click the auto mode  $\rightarrow$  sleep mode  $\rightarrow$  auto mode, restore the smart operation. You can also directly touch and slide the circle so that the main unit is back to work.



Note: Only when the monitoring controller runs in the "AUTO" mode, it will detect the "ventilation" status



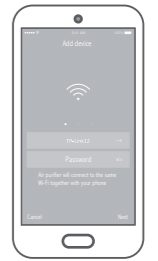
Scan QR code using a mobile phone or scan QR code at the bottom of monitoring controller



Download and install the APP



Open LIFAair APP, Click the "+" on the phone screen



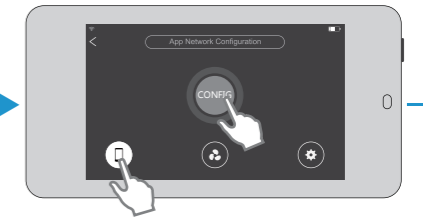
Make sure your phone is properly connected to WiFi network, enter the WiFi password



Based on the prompt, click CONNECT network



Click settings on the monitoring controller



Select  $\rightarrow$  Click CONFIRM



Click the button "network connected"

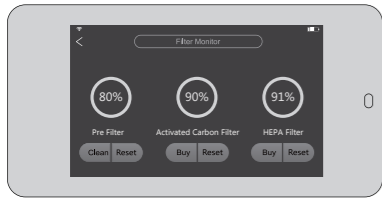


After the success of connecting the internet, click the link to the monitors, input monitoring controller password (last six digits of CODE, showed below the DC interface in the rear of monitoring controller, it is not case-sensitive)

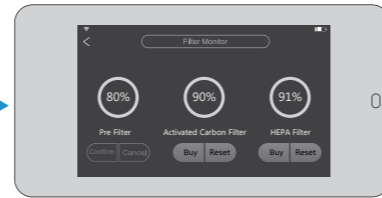


After a successful connection, the phone can control the main unit, and simultaneously display the current data in the monitoring controller

**Filter replacement** (Make sure that the main unit stops running, un-plugs the power cord and then clean or replace the filters)



Refer to "First Installation" section, find the carbon barrel handle after opening the bottom cover, respectively, take out carbon barrels and HEPA filters, replace the filters and then put into the main unit.



When the filter detection value in monitoring controller is less than 5%, you need to clean or replace the filter.

Replace the filters

Filter Reset

### Clean the pre filter



Clean the pre filter: Remove the two carbon barrels, clean it in outdoor using a dry cleaner equipped with brush. Clean the dust on the outer surface of carbon barrel. Upon completion of cleaning, put carbon barrels back into the main unit, press the "Reset" button to confirm.

**Note:** Do not use a wet towel to clean the pre filter, in order to avoid clogging the pre filter.

Product Name: LA510 Smart Air Purifier

Product Type: KJ490G-L51

Clean Air Delivery Rate for particle (CADR particulate matter): 490m<sup>3</sup>/h

Cumulate Clean Mass for particle (CCM particulate matter): P4 level

Particle Removal Efficiency: high efficient level

Clean Air Delivery Rate for formaldehyde (CADR formaldehyde): 223m<sup>3</sup>/h

Cumulate Clean Mass for formaldehyde (CCM formaldehyde): F4 level

Formaldehyde Removal Efficiency: high efficient level

Noise: <68dB (A)

Application area: 34m<sup>2</sup> ~ 58m<sup>2</sup>

PM2.5 sensor: Laser type

CO<sub>2</sub> sensor: Dual thermopile type

Formaldehyde Sensor: Electrochemical Smart type

Temperature / Humidity Sensor: Semiconductor + Thermal Resistance type

**Note:** for application area, it is in accordance with GB/T18801-2015 calculated based on the value of CADR for particle.

Performance data above are in accordance with GB/T18801-2015 tested by the third-party laboratories by using particular soot particles or gaseous pollutants as targeted pollutants.

### Troubleshooting

#### Purifier not working?

Please check whether the power cord is correctly connected.  
Please check whether the purifier is in minimum wind speed.  
Please check whether the bottom cover is in the lock position.

#### Running noise?

Please check whether the filter is installed.  
Please check whether the protective bags of the carbon barrels have been removed.  
**Monitoring controller can't connect to main unit?**  
Please refer to "Monitoring controller pairing with the main unit" steps on the page6 for pairing.

#### Formaldehyde readings suddenly increase?

Because formaldehyde sensor is an electrochemical sensor, many other gases will react, such as alcohol, perfume, humidity sudden increasing can produce false readings, which is a normal phenomenon. If the interference cannot be eliminated for a long period, please perform Zero Settings → ⚙ Settings → Sensor calibration in indoors, directly press the formaldehyde sensor zeroing → confirmation.

#### Formaldehyde or carbon dioxide have inaccurate readings?

Please use the following process:

⚙ Settings → sensor calibration, according to the standard method of zeroing in outdoors for 30 minutes, use the "Testing Mode" when turn on the monitoring controller, and then perform zeroing for formaldehyde and carbon dioxide sensor respectively.



# LOVEAIR

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