



LIFAair

LIFAair International Limited

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www.lifaair.com Designed in Finland

LAC52 Smart Car Air Purifier

Please read this user manual before using the product, and keep securely for future reference.


Thank you for selecting LIFAair! You are about to enjoy superior Finnish technology and innovation for quality living.

Important safety information 

- Please do not operate product while driving to avoid accidents.
- Only use attachments/accessories as specified by the manufacturer.
- Keep product away from children in case of accidents.
- Do not obstruct the air inlet and outlet.
- Protect the power cord from being twisted, bent, or pinched.
- Unplug the product from the lighter socket when not in use.
- Please unplug the controller from the lighter socket before changing filters, moving, or cleaning pre-filter.
- Never sit or lean on the purifier to avoid accidents and/or damage.
- Please do not pamper with the exterior parts and/or the air inlet and outlet.
- Please do not place the product directly under the air conditioner to avoid condensed water.
- Except for professional maintenance personnel, please do not attempt to repair the product.

NOTE:

- * To operate the device, please insert the controller fully in the lighter socket, and twist to lock position.
- * The main unit must be fully secured around the headrest.
- * While driving and/or the device is operating, please do not touch/play with the unit to avoid accidents.
- * Please turn off the device during periods when the windows are open. The product will be ineffective during this time, and will only exhaust the lifespan of the filters.
- * Please alternate between recirculation and external circulation to achieve a healthy in-car air quality level. External circulation can reduce carbon dioxide levels, while recirculation and the product together can lower PM2.5 concentration.
- * Tips: For cars where the power socket remains connected to a power source even after the engine is turned off, please manually turn off the purifier. When the engine starts again, you can manually turn on the purifier. To ensure your car battery is not depleted, the purifier will automatically enter standby mode when voltage is low.

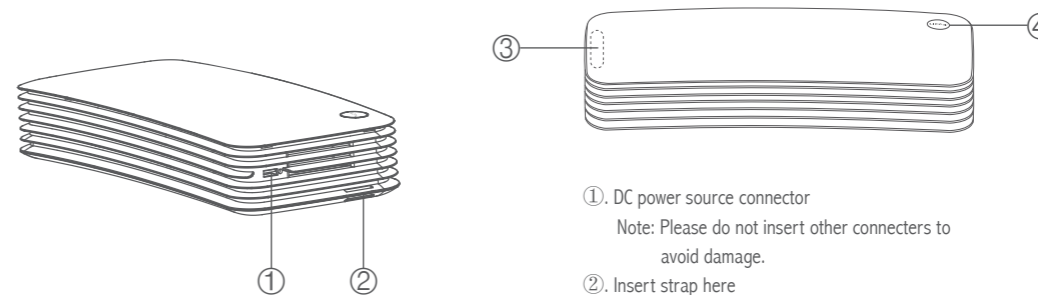
 Correct disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Packing List

Main unit ×1 Power supply / smart controller ×1 Strap ×1 User manual / certificate ×1



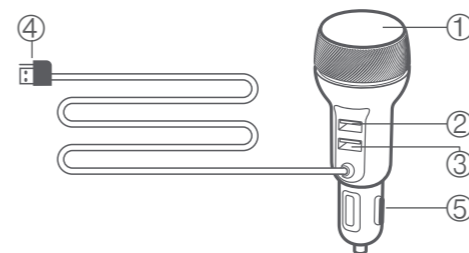
Main unit (Purifier)



- ①. DC power source connector
Note: Please do not insert other connectors to avoid damage.
- ②. Insert strap here
- ③. PM2.5 and CO₂ sensors
- ④. Trademark

NOTE: Do not block the air inlet and outlet as the PM2.5 and CO₂ sensors are located in the left side of the purifier.

Smart controller

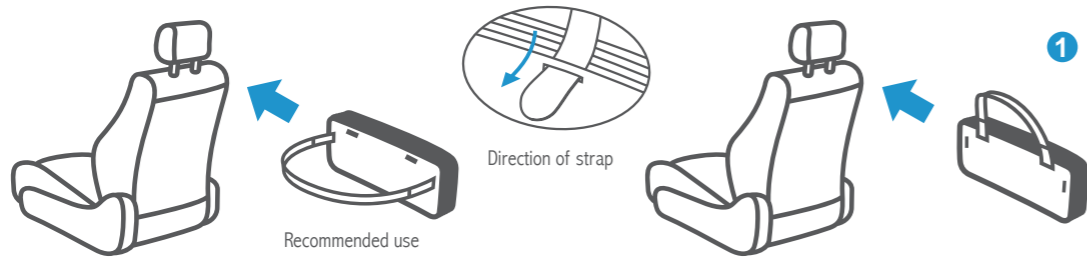


- ①. Display screen
- ②. USB current output 1 (5V ---2A)
- ③. USB current output 2 (5V ---1A)
- ④. DC power source/control connector (connect to main unit)
- ⑤. Lighter plug

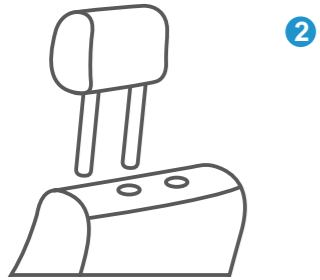
NOTE: Above diagrams are for reference only, please prevail in kind.

Initial Installation

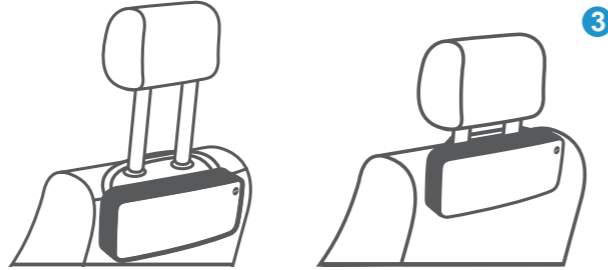
3



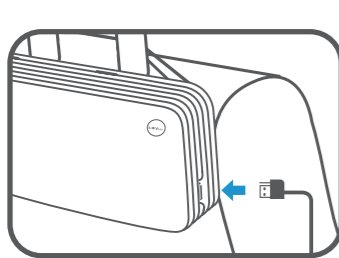
Take out the band from accessories box and make the band thread into purifier from inside to outside and seal. Per the car seat type, select installation holes that on the side or above. The side installation holes are recommended.



Take down the headrest of driver's seat.



Secure the strap around the harness of the headrest, reinstall the headrest.



Connect the power supply/control port of smart controller to DC power source socket on purifier.

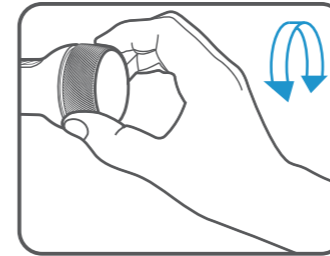
NOTE: Above diagrams are for reference only, please prevail in kind.

English

How to Operate Smart Controller

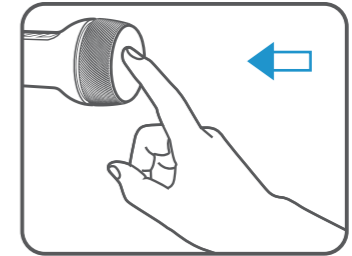
4

There are 2 main methods (press and spin), subdivided into 5 distinct actions to operate the smart controller: spin, quick spin, press, double press, and press and hold.



Spin

Spinning is independent of direction; the differentiation between slow and fast spin is based on speed.



Press

Press: Press the screen once
Press and hold requires to maintain contact up to 2 seconds.

Smart Controller Display Interface

Display

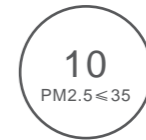
Main menu

1. CO₂ interface displays carbon dioxide concentration (ppm). The standard level is given below.



CO₂ mode

2. PM_{2.5} interface displays PM_{2.5} concentration in the air ($\mu\text{g}/\text{m}^3$); The standard level is given below (Chinese standard is $\leq 35\mu\text{g}/\text{m}^3$).



PM_{2.5} mode

3. SETTINGS: Quick spin the dial to enter sub-menu.



SETTING mode

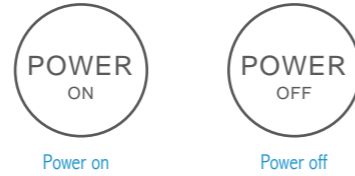


SETTING mode

English

Display

4. POWER: Press and hold the screen to manually power on and off the controller. This can be done on any interface screen except for FILTER and RESET.

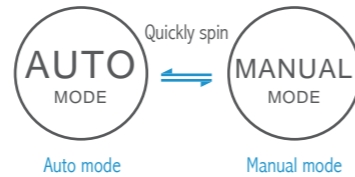


Sub-menu:

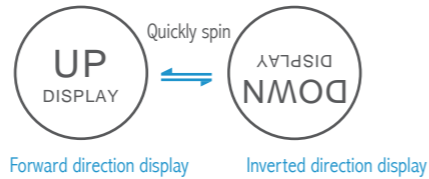
1. MODE: quick spin the dial to switch between auto and manual

* Under auto mode, the air purifier will self-adjust fan speed, to maintain in-car PM2.5 level at or below national standard level. It will also turn off the purifier if the air quality is at a healthy level.

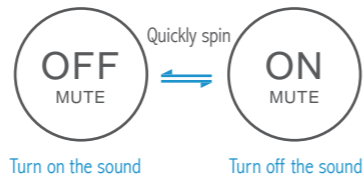
It is recommended to select auto mode



2. DISPLAY: quick spin the dial to flip the display direction (UP or DOWN)



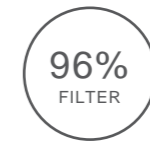
3. MUTE: quick spin the dial to turn on or off CO2 alarm



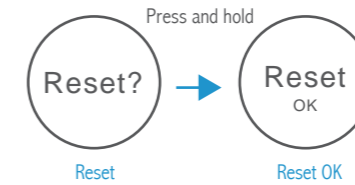
Display

4. FILTER: The screen will display filter lifespan (percentage left).

* The screen will indicate when filter lifespan is less than 5%.



5. RESET: Press and hold the screen to restore to factory settings



After reset
MODE: auto



DISPLAY: up direction



MUTE: off

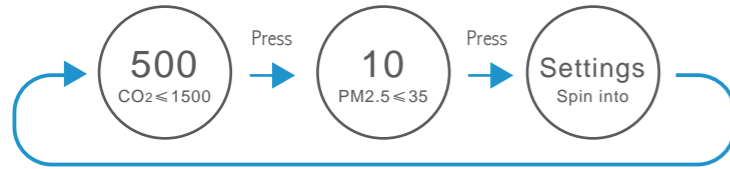


Controller Operation

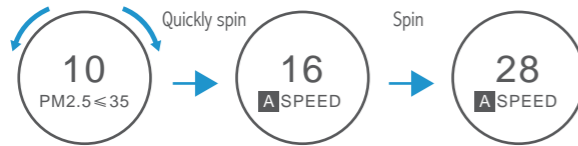


Press to switch display interface, spin to either adjust fan speed or change settings (dependent on specific interface). Press and hold to turn on or off the controller.

1. Main menu: press to switch between CO₂, PM_{2.5} and SETTINGS interface.

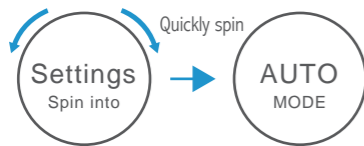


(1.1) Under CO₂/PM_{2.5} interface, quick spin to enter speed control interface, screen will display current fan speed (0 indicates fan is off, 32 is highest setting). Spin to adjust fan speed. Screen will return to main menu display if left for up to 10 seconds.



NOTE: if MODE is in auto, purifier will maintain manually adjusted fan speed for 5 minutes, and revert to auto mode.

(1.2) Under SETTINGS, quick spin to enter sub-menu



NOTE: * To set primary display screen between CO₂/PM_{2.5}, ensure the display remains on preferred interface for up to 10 seconds.

* Display will return to primary interface if left idle for 10 seconds.

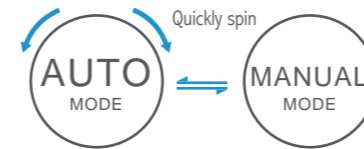
* Product will store all settings upon powering off; Restarting the product will NOT restore settings to factory settings.

Controller Operation

2. Sub-menu: Under sub-menu (from SETTINGS), press to switch between MODE/DISPLAY/MUTE/FILTER/RESET sub menus.



(2.1) Under MODE, quick spin to switch between MANUAL and AUTO.



* Under MANUAL, fan speed will be manually set.

* Under AUTO, air purifier will self-adjust fan speed according to current PM_{2.5} levels.

* It is possible to manually adjust wind speed under AUTO mode, however air purifier will only maintain said speed for 5 minutes.

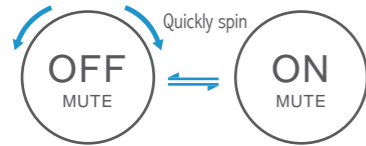
(2.2) Under DISPLAY, quick spin to switch between UP and DOWN.



NOTE: This is for when controller default display direction is inconvenient for current operation

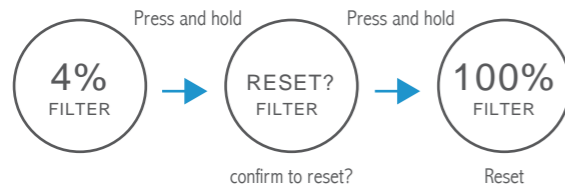
NOTE: Above diagrams are for reference only, please prevail in kind.

(2.3) Under MUTE: quick spin to switch between ON and OFF

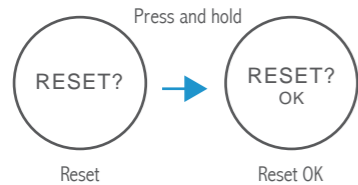


NOTE: * When OFF, alarm is on, screen will flash warning signal
 * When ON, alarm is off, screen will flash warning signal

(2.4) Under FILTER, press and hold screen for 2 seconds, the prompt "RESET?" will appear (to reset filter lifespan calculation). Press and hold screen again to reset. If left idle for over 5 seconds, screen will return to primary interface.



(2.5) Under RESET?, press and hold to restore to factory settings. If left idle for over 3 seconds, screen will return to primary interface.



NOTE: once in the sub-menu, if left idle for 10 seconds, screen will return to primary interface.

CO₂ warning

1. When CO₂ levels are above 2000ppm/2500ppm/3000ppm, product will respectively initiate level one, two, and three warning.
 - * Level one: CO₂ screen will flash, a continuous alarm will ring (once per 3 seconds).
 - * Level two: CO₂ screen will flash, a continuous alarm will ring (once per 2 seconds).
 - * Level three: CO₂ screen will flash, a continuous alarm will ring (once per 1 second).
2. Warning will initiate when CO₂ levels continue to rise.
 - * Double press to cancel warning for 5 minutes. After 5 minutes if CO₂ level further increases, then warning will resume.
 - * Press to cancel alarm for 5 minutes, screen will resume to flash. After 5 minutes if CO₂ level further increases, then warning will resume.
3. When CO₂ warning is activated, screen will switch to CO₂ interface if left idle for over 5 seconds.

Temperature Protection Mode

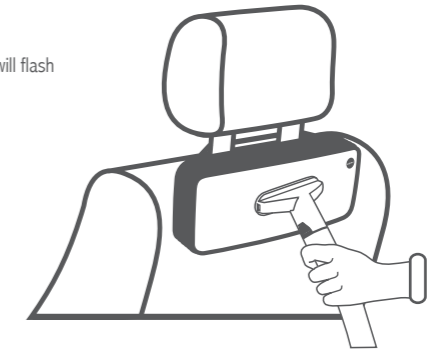
1. When temperature is over 60°C, temperature protection mode will be activated.
2. Under temperature protection mode, only manual fan speed adjustment is allowed, all other functions will remain off. Screen will flash current temperature.
3. When temperature falls below 60°C, all functions will resume.
4. When below 0°C, sensors will be affected; display value may not be accurate.

Filter Use

When the filter lifespan is below 5%, under FILTER interface, the screen will flash current lifespan (once per 1 second).

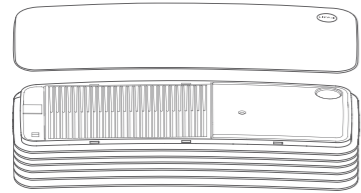
Cleaning pre-filter

Please clean the pre-filter regularly. Recommended to use a vacuum.



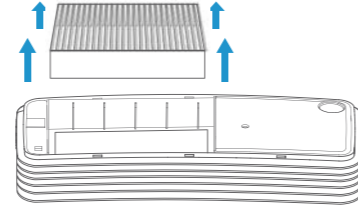
Filter replacement (be sure the main unit is off and disconnected)

1. Filter replacement is required once filter lifespan is below 5%.
2. Remove top cover of the main unit and used filter(s). Replace new filter(s) and secure the top cover.
3. Refer to controller operation to reset filter lifespan calculation.



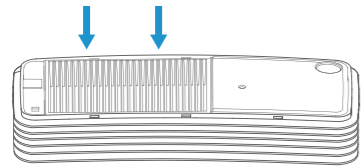
1

Open the net cover of purifier main unit



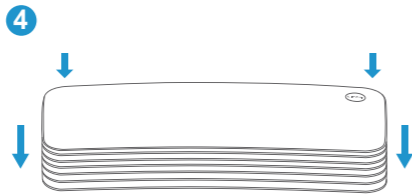
2

Take out the filter from purifier main unit



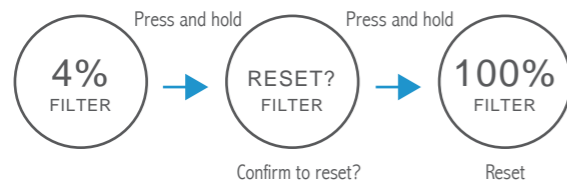
3

Install the new filter into the purifier main unit, the arrow indicating airflow should be pointed downwards.



4

Complete the filter installation, close the net cover of purifier main unit and tighten it.



5

Under FILTER mode, press and hold to initiate "RESET?" prompt. Press and hold again to reset.

NOTE: Above diagrams are for reference only, please prevail in kind.

Product Name: Smart Car Air Purifier

Product model: LAC52

Clean Air Delivery Rate for particle (CADR particulate matter): 52m³/h (Performance data above are in accordance with GB/T18801-2015 tested by third-party laboratories using particular soot particles or gaseous pollutants as targeted pollutants.)

Working voltage: DC12V-14.4V

Maximum power: 7W

Filter model: LAD 01 LA

Troubleshooting

How to do if the product stops working

- Please check if the DC power source/control connector is connected to the purifier main unit correctly.
- Please check that the controller is fully inserted into the power socket.
- Please check if the purifier is at minimum wind speed.

Customer Service – International

if you have any questions regarding the care and operations of your LIFAair air purifier, kindly contact us at care@lifa-air.com or visit us at www.lifaair.com

Please note that we reserve the right to change or modify our product without prior notice.