

A versatile mood light for bedroom, kids' rooms, and camping.

- Select colors and adjust brightness as needed.
- Set a timer for automatic shutdown.

Eliminates viruses and various bacteria.

By employing a photocatalytic filter and UV LEDs, it efficiently eliminates viruses and bacteria (98% E. coli, 99% Staphylococcus aureus).

Equipped with a 13-grade HEPA filter for allergy particle capture.

- A filter that efficiently removes various allergy triggers.
- Up to 99.9% removal of ultrafine dust with a 13-grade HEPA filter.

Air quality monitoring within the usage area is at your fingertips.

- Easily track real-time air quality in your space, including PM2.5, PM10, humidity, temperature, carbon dioxide (CO₂), and total volatile organic compounds (TVOC), all from your smartphone.

Equipped with a high-capacity 3,600mAh battery.

Operates the air purification function for about 5 hours on high-capacity battery at 2nd fan speed

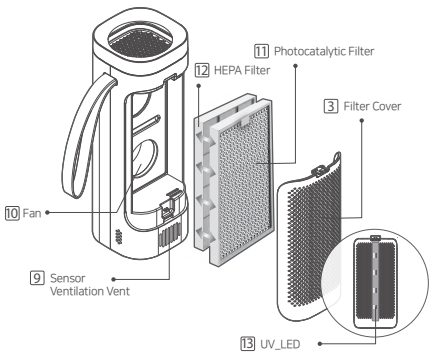
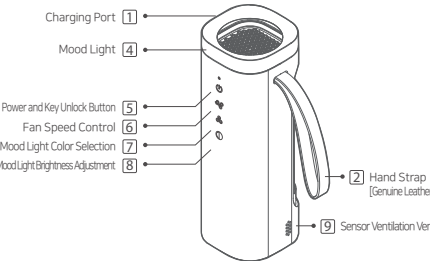
Enjoy convenience from anywhere, anytime with smart IoT capabilities.

Our IoT wireless server, utilizing Wi-Fi, is hosted in the United States, ensuring global accessibility. It seamlessly switches to Bluetooth in Wi-Fi-deprived locations.

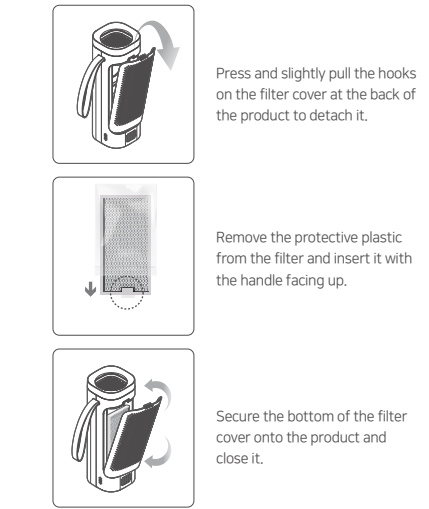
Designed in Korea, and handcrafted by the people of Korea, a product proudly 'Made in Korea'.

Crafted in Korea by the finest local designers, a genuine 'Made in Korea' product.

Product Components and Functions



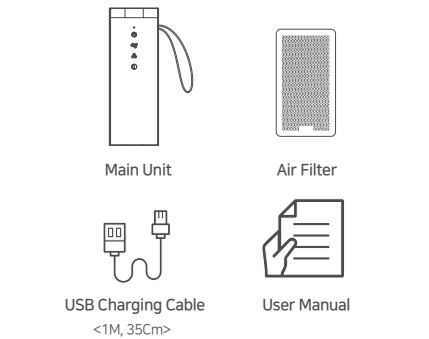
- 1 Charging Port** Charge by using the USB-C type charging cable
- 2 Hand Strap [Genuine Leather]** Hand Strap with Genuine Leather
- 3 Filter Cover** Filter Cover Opens for Filter Detachment
- 4 Mood Light** Can be used as a bedside or nursing light
- 5 Power** Can be used as a bedside or nursing light
- 6 Fan Speed Control** Long touch for 3 seconds to power ON/OFF. Short touch for key lock/release. Change fan speed for airflow adjustment (low noise, 1, 2, 3, Auto, Off).
- 7 Mood Light Color Selection** Select mood light color (white, red, orange, yellow, green, blue, indigo, purple, Off).
- 8 Mood Light Brightness Adjustment** Adjust mood light brightness (3, 2, 1).
- 9 Sensor Ventilation Vent** Fine Dust Sensor Vent
- 10 Fan** Utilizes High-Performance Low-Noise BLDC Blower Fan
- 11 Photocatalytic Filter** Utilizes UV light to generate plasma for virus and bacteria disinfection.
- 12 HEPA Filter** HEPA Filter with 13-Grade Allergen Filtration
- 13 UV_LED** Control ON/OFF only via the dedicated app (Initially set to OFF)



Caution

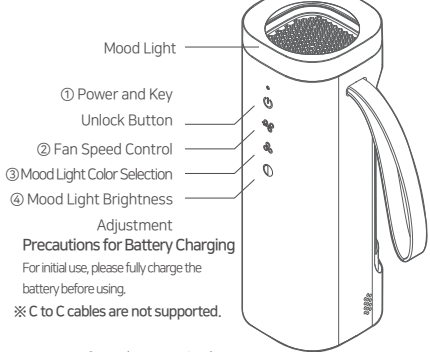
- Before using the product, ensure that you have removed the protective plastic from the filter. Failure to do so can cause product malfunctions.
- When attaching the filter, be mindful of its orientation to prevent W product malfunctions and damage.

Components



The charging cable is inside the box under the product.

- The appearance or components of the product may vary depending on the model.



Precautions for Battery Charging

For initial use, please fully charge the battery before using.

※ C to C cables are not supported.

Start the operation by pressing and holding Power Button ① for 3 seconds.

- A long press of the Power Button turns the power on or off, and a short press unlocks the keys.

※ **Important notes**

- If there's no button touch for 10 seconds, all buttons except the Power Button will automatically lock. A short press of the Power Button will unlock the touch buttons.
- Upon starting the operation, allow 1 minute for sensor stabilization. After sensor stabilization, the app will display air quality status.

Adjust the fan speed by pressing the Fan Speed Control Button ②.

- Each time you touch the Fan Speed Control Button, it cycles through Low Noise Mode, Level 1, Level 2, and Level 3 in sequence.
- For AUTO mode, press and hold the button.
- The initial setting for fan speed is Low Noise Mode.
- When you change the fan speed, the Mood Lamp will flash once for Level 1, twice for Level 2, and three times for Level 3.

Each time you press the Mood Lamp Button ③, the mood lamp color will cycle through the following sequence: White → Red → Orange → Yellow → Green → Blue → Indigo → Purple → OFF.

LED Status Indicators for the MC310

Operating Status	Color	Indicator Lights
Pairing	Blue	Blinking
In Use	Blue	Lit
Using the Device While Charging	Purple	Lit
Charging	Red	Lit
Charging Complete	Light Off	Off
TVOC, CO ₂ , Fine Dust - Bad	Red	After Blinking, Steady On

Through the ZeroWell app, you can perform real-time monitoring of air quality in your living space across four key factors: fine dust, humidity, temperature, and Total Volatile Organic Compounds (TVOC).

1. Fine Dust

Fine Dust Levels Guidance

PM10	0	30	80	150
	Very good	good	bad	very bad

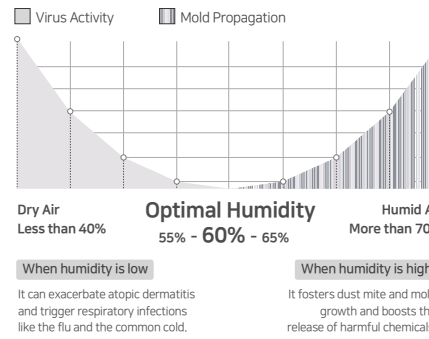
PM2.5	0	15	35	75
	Very good	good	bad	very bad

2. Temperature

온도 측정 범위 : 여름 상에서 (0 ~ 50℃) 표시

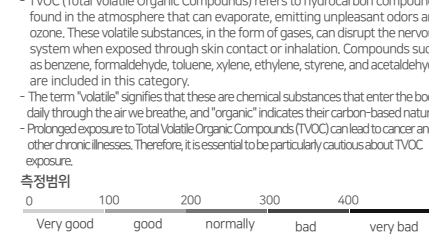
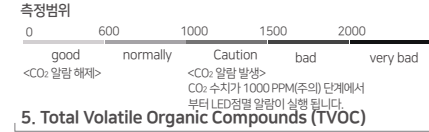
3. Humidity

습도 측정 범위 : 여름 상에서 (0 ~ 100%) 표시



5. Carbon Dioxide (CO₂)

Carbon dioxide concentration serves as a crucial indicator for assessing indoor air quality. Exceeding the recommended levels can be detrimental to human health, highlighting the need for adequate ventilation.



Installing the ZeroWell IoT app on your smartphone enhances the convenience of using the product

How to Install the Zerowell Dedicated App

Search for 'Zerowell' on your smartphone's Google Play Store or Apple App Store, and then proceed with the installation. For detailed usage instructions, please consult the application's user guide.

How to Pair

Pairing is the process of registering devices with each other using Wi-Fi. Once pairing is complete, you won't need to repeat it.

※ **When initially connecting to Wi-Fi, be sure to connect to the 2.4GHz band.**

※ **For the initial connection, make sure the product is powered off.**

- 1 Simultaneously press and hold the + button to reset.
- 2 In the ZeroWell app, choose 'Add Device.'
- 3 Select 'Auto Scan.'
- 4 Choose the detected product.

Connection Precautions

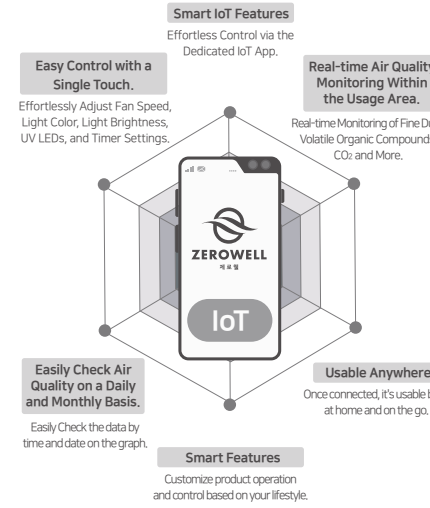
- During the initial setup, place the router, product, and smartphone close together for pairing.
- If pairing is not successful, try rebooting the router and reconnecting.

※ 참고 : 완전 방전 후에는 기기와 휴대폰 페어링이 취소됩니다.

충전 후 제품의 + 버튼을 동시에 눌러 초기화(무드램프가 점멸)시킨 후 휴대폰과 다시 페어링 해주세요.

Zerowell IoT Features

Use the following functions with the smartphone connected to the product.



- ① Connect the USB-C cable to an AC adapter for fast charging.
- ② Plug the USB cable into the DC IN 5 V port on this device.
- ③ Connect it to a fast-charging adapter. (Charging adapter not provided) ※ C to C cables are not supported.

- The fast charging time is approximately 4 hours.
- Operating time is roughly 5 hours on the 2nd fan speed when the product is fully charged.
- Operating time is roughly 5 hours on the 2nd fan speed when the product is fully charged.
- In cold environments, operating time may significantly decrease, or the product may not function based on the charge level.
- As batteries are consumable, their usage time naturally decreases over time.
- If usage time drops by more than half compared to the time of purchase, please contact Zerowell Customer Service. (Paid replacement after the warranty period)
- When first using the product, the battery may not be fully charged, so be sure to charge it completely before use.

Checking the Battery Charging Status

- Battery charging begins when the AC adapter connected to the power outlet is connected to this device.
- Verify the charging status using the power indicator light.
- The device will automatically stop when the battery level drops below 15% to protect the battery.
- The battery level cannot be checked while charging.

○ You can check the battery status in the Zerowell app (the actual battery level may vary)."

Precautions

- An AC adapter must be purchased separately, and it's crucial to use a certified AC adapter (5V, 2A).
- The use of unauthorized chargers can result in malfunctions and variable charging times.
- When connected to a car's USB port or a PC USB port, the lower current can lead to slower charging or the product not functioning, and charging may be limited depending on the vehicle.
- Charging may be automatically stopped for safety if the battery temperature becomes too high or too low.
- Do not leave the product in direct sunlight near a glass window or inside a car where the internal temperature can rise significantly due to direct sunlight. Also, avoid placing the product on blankets, heaters, or carpets for extended periods.
- Overheating can cause exterior deformations, malfunctions, and even battery explosions.
- If you plan to use the product after extended storage, make sure to fully charge it before use.
- When requesting service for battery-related issues, please include the product charger.

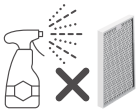
※ 참고 : 기기의 주위 온도가 45℃ 이상 되면 제품 보호를 위해 전원이 자동으로 차단됩니다.

Cleaning and Filter Replacement Guidelines

The filter replacement frequency may vary based on the usage environment.



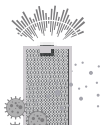
Before cleaning and replacing the filter, always power off the product.



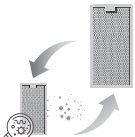
Avoid spraying water directly on the filter.



Refrain from washing the main unit and filter with water, as it may reduce the filter's lifespan.



Contaminated filters can result in increased noise.



Filters are consumable items, and even during the warranty period, they should be replaced when their lifespan is depleted.



Replacement filters are available for purchase on the Zerowell online store.

How to Clean the Filter



1 Remove the product's filter cover.



2 Use a vacuum cleaner or a soft brush to remove dust from the air filter.

How to Replace the Filter

- 1 Remove the product's filter cover and replace the filter.
- 2 After completing the filter replacement in the app, disable the filter replacement notification.

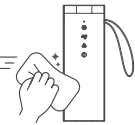


- In the ZeroWell app's filter management menu, press the "Filter Replacement" button to deactivate the notification. Disabling the filter replacement notification will reset the notification time and filter remaining quantity.

How to Clean the Exterior



1 Use a vacuum cleaner or an air blower to eliminate dust from the air intake and exhaust openings.



2 Gently wipe the product's exterior with a soft cloth.

Precautions



- Do not use alkaline detergents to clean the product.
- Avoid cleaning the product's surface or applying stickers using sulfuric acid, hydrochloric acid, or organic solvents (such as thinner, kerosene, acetone, etc.).
- Water entering the product's interior may cause malfunctions.

How to Store the Product

When not using the product for an extended period, store it in a shaded, dry place away from direct sunlight.



1 Operating the product for over 1 hour on a clear day can help prevent moisture and mold inside.



2 When the product is active, unplug the charging cable and hold the power button for over 3 seconds to turn it off completely.



3 Store the product in a shaded location, securely packed to prevent dust and foreign particles from entering.



4 Avoid storage in high-temperature or humid areas or places exposed to direct sunlight.



5 For long-term storage, fully charge the product every 6 months.



6 After extended storage, ensure it's fully charged before use.

For your safety and the proper use of the product, please read the following safety precautions in full before using the product to prevent any unexpected risks or damage.



Safety Precautions for Installation

- Placing the product in a vibrating or uneven location may increase noise or cause the product to shake.
- Avoid installing the product on uneven or sloping surfaces to prevent potential damage.
- When using the product in a vehicle, ensure it is securely fastened in a cup holder of an appropriate size to prevent it from falling and causing damage.
- Do not place the product in areas with flammable gas leaks, industrial oils, or high levels of metallic dust, as it may result in product malfunctions and fire hazards.
- Keep the product away from high-temperature environments, direct sunlight near car windows, blankets, electric heating pads, stoves, or carpets for extended periods to prevent deformation, malfunctions, or battery explosions.
- Avoid placing the product in high-temperature and humid environments, such as saunas, under blankets, near swimming pools, in bathrooms, or places with high humidity, as this can lead to deformations, malfunctions, or battery explosions.
- Ensure that moisture emitted by humidifiers does not come into direct contact with the product to prevent electric shock, fire, and malfunctions.
- Keep the product away from TVs, audio devices, or electronic equipment in vehicles to avoid interference with these devices.



Product Usage Safety Precautions

- Do not insert fingers, metal objects, or flammable materials into the product's intake, exhaust, or sensor vents to prevent malfunctions and damage.
- Avoid placing containers such as vases, pots, cups, cosmetics, medications, or liquids on top of the product to reduce the risk of fire, electric shock, or objects falling.
- People with disabilities or limited experience and knowledge, including children, should not use the product without supervision or guidance from a responsible guardian to avoid product malfunctions, injuries, or fire hazards.
- Do not disassemble, tamper with, or damage the product, its battery, or components. Refrain from using the product if it is in a broken state, as it may lead to injuries, fires, or electric shock.
- Refrain from operating the product during severe thunderstorms or lightning storms, and disconnect the power cord and charger to prevent injuries and fires.
- Avoid using the product while driving, walking, or in motion, as it may result in injuries or safety incidents.
- Do not use or charge the product when it is wet to prevent battery ignition, leaks, or explosions.
- Ensure that foreign materials do not enter the charging port to prevent product malfunctions and fires.
- Do not attempt to disassemble, repair, or modify the product yourself. Leave such tasks to Zerowell's service center to prevent electric shock, injuries, or fires.
- If the product is submerged, stop using it and contact Zerowell's service center, as this may lead to product malfunctions and electric shock.
- Avoid using or storing the product near flammable materials, combustibles, or ignition sources, as it may result in explosions or fires.
- If the product emits unusual sounds, odors, or smoke, discontinue use immediately and contact Zerowell's service center, as it may lead to fires.
- Ensure that the charging cable is not crushed by heavy objects or excessively bent to avoid electric shock or fires. Also, prevent pets and animals from damaging it.
- Do not insert foreign materials into the product when the cover is open, as it may result in product malfunctions and damage.
- If the product will not be used for an extended period, disconnect the charging cable from the product to avoid electric shock or fires.
- Be cautious to prevent the product from being stepped on or knocked over, as it may lead to product malfunctions, injuries, fires, and electric shock.
- Avoid using the product for anything other than its intended purpose, as it can lead to product malfunctions, damage, fires, or electric shocks.
- Prevent any foreign substances, such as water, coffee, or soda, from entering the product to avoid the risk of fire, electric shock, or product malfunctions.



Battery Usage Safety Precautions

- This product is equipped with a built-in battery. Do not attempt to disassemble or replace the battery by yourself. Always seek professional assistance from the Zerowell service center to prevent harm, electric shock, or damage to the product.
- Use only authorized, genuine batteries and charging accessories provided by our company to minimize the risk of battery malfunctions, ignition, or explosions.



UV_LED Safety Precautions

- This product utilizes UV LEDs. Do not attempt to disassemble or replace the UV LEDs on your own, as doing so may result in injury, electric shock, or damage to the product. UV LED replacement should be conducted exclusively by the Zerowell service center.
- When dust or foreign materials enter the UV LEDs, please use a soft cloth for cleaning.
- If there is clear damage to the UV LEDs, do not operate the product.
- Utilizing the device in abnormal ways or with a damaged filter cover can lead to the emission of harmful UV radiation.
- Even in small quantities, UV radiation can be harmful to the eyes and skin.
- Always turn off the product prior to conducting cleaning and other maintenance procedures.



Precautions for Disposal

- Dispose of the packaging material (plastic) in a manner that prevents children from handling it, as it could present a choking hazard.

Product Details

Product Name & Model Number	Baby Safe Air Doctor Smart with CO ₂ Sensor (ZWA-MC310)
Color	White, Pink, Green, Blue, Red, Light Brown
Product Size (WxDxH)	67 x 67 x 193(mm)
Weight	350g
Air Purification Capacity (CADR)	12m ³ / h
Rated Voltage	USB Type-C DC 5V 2A
Power Consumption	7.6W
Energy Efficiency Rating	Not Applicable
Fan Speed	Low Noise - Level 1 - Level 2 - Level 3
Battery	Integrated Battery (3,600mAh)
Dust Sensor	Portable PM2.5 / PM10
Temperature and Humidity Sensors	Humidity: Less than 20% to 90%
Gas Sensor	TVOC Sensor / CO ₂ Sensor
Smart Device Connectivity	외Dual Mode: Wi-Fi / Bluetooth
Manufacturer	Zerowell Inc.
Country of Manufacture	South Korea
Quality Assurance Standards	In case of consumer damages due to defects or faults, compensation can be sought in accordance with the Consumer Dispute Resolution Standards (Article 16 of the Consumer Basic Act).
Warranty Claim and Customer Service Center	Zerowell Customer Service Center +1)408-529-6726

Product Warranty Certificate

Regarding Services

At ZeroWell Inc., we offer warranties for our products based on the Consumer Dispute Resolution Standards (Fair Trade Commission Regulations) specific to each item. For service requests, please contact us at +1)408-529-6726. We aim to provide compensation eligibility and details within 7 days from the request date, and resolve compensation claims within 14 days from the notification date.

Product Name	Model Number
Date of Purchase (YYYY-MM-DD)	Serial No.
Place of Purchase	Purchase Price

Free Repair Service

When using a standard product for commercial purposes, the warranty period is halved.

Types of Consumer Damage	Within the Warranty Period	After the Warranty Period
For significant performance or functional defects within 10 days of purchase under normal use.	Product Exchange or Purchase Refund	N/A
For significant performance or functional defects within one month of purchase under normal use.	Product Exchange or Free Repair	N/A
Transportation and installation damage at purchase.	Product Exchange	N/A
Replacement malfunction within one month.	Purchase Refund	N/A
When replacement is impossible.	Purchase Refund	N/A
Same defect occurrence twice within warranty.	Free Repair	Paid Repair
Same defect occurs for the third time within warranty.	Product Exchange or Purchase Refund	Paid Repair
Different defects five times within warranty.	Product Exchange or Purchase Refund	Paid Repair
Last product during consumer repair.	Product Exchange or Purchase Refund	Refund calculated by adding 10% to the fixed depreciation amount.
Repair impossible due to lack of parts within retention period.	Product Exchange or Purchase Refund	Refund calculated by adding 5% to the remaining amount after fixed depreciation.
Spare parts available but still unable to repair.	Product Exchange or Purchase Refund	Refund after fixed depreciation.

Paid Repair Service

In case of non-defect.

- Handling without disassembly or reinstallation due to poor installation by the seller.
- Request for service due to inadequate installation resulting from product relocation, moving, etc., consumer's inexperienced installation, reinstallation after initial consumer-installed installation, and internal cleaning service.

In case of consumer negligence causing a malfunction.

- Due to mishandling, improper repair, or modification by the consumer.
- Malfunction caused by incorrect use of electrical capacity.
- Repairs conducted by individuals not affiliated with our service subcontractors or partner companies.
- Malfunction or damage due to external impact, dropping, etc.
- Malfunction caused by the use of consumables or optional items not specified by us.
- Malfunction due to failure to adhere to the 'cautions' and 'guidelines' in the user manual."

In all other cases

- In case of malfunctions caused by acts of nature (lightning, fire, vandalism, flooding, etc.).
- When consumable parts have reached the end of their lifespan (e.g., filters).

In cases of consumer-caused malfunctions.

In cases where repair is impossible	Product exchange after collecting the fee for paid repair.	Product exchange after collecting the fee for paid repair with depreciation applied.
In cases where repair is possible	Paid Repair	Paid Repair

※ Please note that service requests in non-fault cases may result in charges. Be sure to read the user manual.
※ This warranty is valid only in Korea and will not be reissued, so please keep it alongside the user manual.



Z3E11R

Customer Service Center
070-4012-0901
Weekdays from 10 AM to 5 PM,
with a lunch break from 12 PM to 1 PM
www.zerowell.co.kr



MEMO

Blank memo area for user notes.



ZEROWELL
Air Doctor
babysafe

Instructions for Use manual

ZWA-MC310

FCC ID : 2BC63-ZWA-MC310W



The instructions for use and safety precautions are intended to ensure user safety and prevent property damage. Please be sure to read and use them correctly.



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.

NOTE: This product 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 to 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.

[47 CFR 15.21] Pursuant to Section 15.21 of the FCC rules, changes or modifications to a Product by the user that are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The device meets the FCC Radio Frequency Emission Guidelines. Information on the product is on file with the FCC and can be found by inputting such Product's FCC ID (which can be found on the device) into the FCC ID Search form available at <https://www.fcc.gov/oet/ea/fccid>.

Product : Air Doctor babysafe

Model : ZWA-MC310W

Input : DC 5.0V (Battery)

FCC ID : 2BC63-ZWA-MC310W

included contains FCC ID : 2ANDL-WBR3

Frequency : 2 402 ~ 2 480 MHz (BLE) / 2 412 ~ 2 462 MHz (WLAN 2G)