



User Manual

Nebulizer Wizard

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I. Important Safety Notes

- ⚠ Be sure to follow the instructions of a doctor for the type, dose, and regimen of the medication.
- ⚠ This unit is only used for nebulization. Do not use the device for any other purpose.
- ⚠ Clean and disinfect the medication cup and accessories before first use or if you've not used the unit for 30 days.
- ⚠ Please stop using the device if the components are damaged.

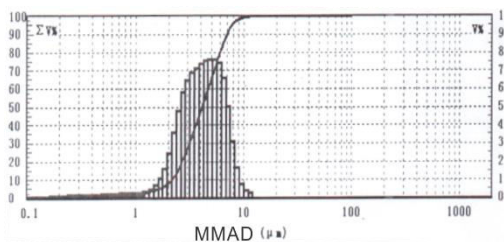
II. Product Description

1. Product Name:
Wizard Research Laboratories Nebulizer Wizard
2. Model Name:
Nebulizer Wizard
3. Working Principle and Mechanism:
The portable device is driven by making the piezoelectric ceramic transducer chip resonate. The liquid flows through the metal MESH. This method forms atomized particles which flow through the suction mask or nozzle.
4. Specifications:

Power Supply	DC 2.4V (Inbuilt lithium titanite battery) or DC5.0V with AC adapter
Power Consumption	<4.0W
Nebulization Rate	>0.35ml/min ~ <0.45ml/min
MMAD	1~5 μ m
Working Frequency	120kHz \pm 10kHz
MMAD	2.5 \pm 30% μ m
Medication Liquid Temperature	\leq 45 $^{\circ}$ C
Medication Cup Capacity	10ml

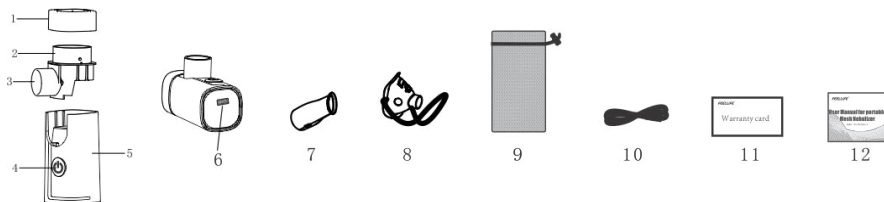
Product Size/Weight	40mm(L)×40mm(w)×91mm(H) /110g /<4 ounces
Security Level	Internal power supply B type equipment
Working Environment	Temperature : 5°C~40°C Relative Humidity : ≤80%R.H. Non-condensing state Atmospheric pressure : (86.0~106.0)kPa
Storage/delivery Environment	Temperature : -20°C~55°C Relative Humidity : ≤80%R.H. Non-condensing state Atmospheric pressure : (70.0~106.0)kPa
Batteries Life	The remaining capacity keeps more than 80% of the initial capacity after 3000 cycles of use

The median particle size in this device is measured with 0.9% physiological saline, under conditions of a temperature of $25 \pm 3^\circ \text{C}$, and a humidity of $60\% \pm 5\% \text{R.H.}$ And the equivalent particle size distribution curve of the fog particles measured under these conditions is as follows



Note: the horizontal axis is the particle size value, the value is logarithmic distribution;
The left vertical axis is the cumulative percentage of the volume, corresponding to the rising trend of the curve;
The right vertical axis is the volume percentage of a certain section, corresponding to the histogram

5. Product Composition:

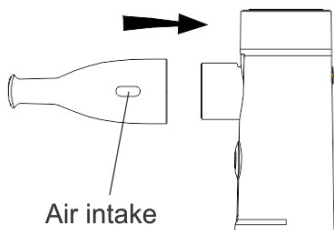


No	Name	Qty
1	Cap	1
2	Medication Cup MESH	1
3	Output Nozzle	1
4	Power Switch	1
5	Base Unit	1
6	USB interface	1

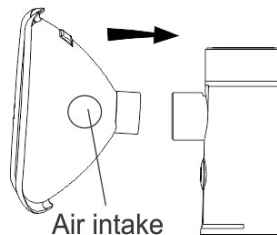
7	Mouthpiece	1
8	Adult Mask & Child Mask	1
9	Pouch	1
10	USB Retractable Cable	1
11	USB Wall Charger	1
12	User Manual	1

iii. Assembly Instructions

1. Remove all packaging and take out the unit and all accessories.
2. Accessories Installation (as shown below)



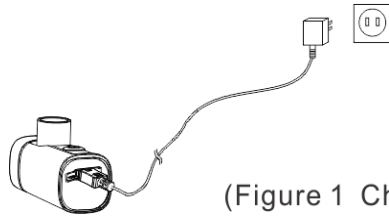
a. Connect the mouth piece



b. Connect the mask

USING FORCE, PUSH THE MOUTHPIECE ALL THE WAY IN UNTIL IT REACHES THE WHITE PLASTIC OF THE MAIN BODY.

iv. Charging



(Figure 1 Charging diagram)

Light indicators

Flashing green light: Unit is charging

Steady green light: Charging is complete

Blue light flashes 5 times: Low battery

Steady blue light: Unit is ON & in normal operation

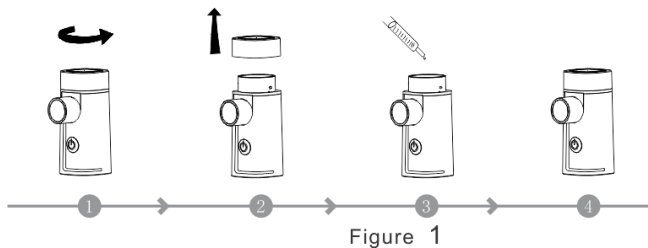
Blue light flashes for 10s and unit turns off: Liquid chamber is empty

Note:

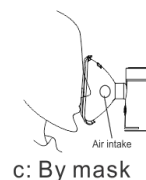
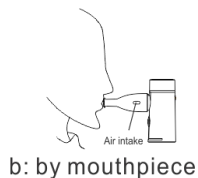
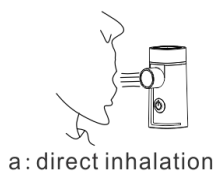
A Fully charged unit will work continuously for about 50 minutes

v. Use Instructions

1. Twist open the top cap.
2. Insert liquid and close cap. (shown in Figure 1).



3. Click power key "⏻" to turn power on, start nebulization.
4. Inhale



Breathe normal

The device will shut off when the liquid is finished.

5) After nebulization, pour out any residual liquid.

vi. Cleaning

VERY IMPORTANT

AFTER EACH USE, PUT HOT WATER AND A FEW DROPS OF WHITE VINEGAR INTO THE LIQUID CHAMBER AND TURN ON THE UNIT FOR 30 SECONDS. THIS WILL CLEAN THE MESH SCREEN. IF HOT WATER IS NOT AVAILABLE, YOU MAY USE COLD WATER. IF IT IS STILL CLOGGED, DIP A Q-TIP INTO VINEGAR AND LIGHTLY ROTATE THE Q-TIP ON BOTH SIDES OF THE MESH.

vii. Storage and Maintenance

Storage conditions:

Environmental temperature: -20°C~55°C;

Relative humidity: ≤80%R.H.;

Atmospheric: (70.0~106.0) kPa ;

others: Non-corrosive gas, good ventilation, avoid high temperature, humidity and direct sunlight.

Storage instructions:

The device is safe for 5 years in the above-mentioned storage condition.

The device should be promptly cleaned and disinfected after use,

Normal working conditions

Environment temperature: 5°C~40°C ;

Relative humidity: ≤80%R.H., non-condensing state.

Atmospheric pressure: (86.0~106.0) kPa;

Power: DC 2.4V (Lithium titanite batteries) or AC power adapter (purchased by user, for technical specification please refer to Chapter 2 for details).

Maintenance Instructions:

Please use under normal conditions

Do not use near a heating device or open flame.


Do not dry the components with a hair blower or microwave

viii. Contraindications, Precautions, Notice and Warning

1. Contraindications:

- 1) This product is not suitable for Pentamidine drugs.
- 2) Pulmonary edema patients are prohibited to use this product.
- 3) Acute asthma and acute pulmonary infarction episodes are prohibited to use this product.

2. Notice and suggestions:

● The device is intended for human use only. Please follow the instructions in the manual or under the guidance of a doctor, infants and young children and persons under special care should use under the supervision of the guardian.	
● Please use original parts and accessories.	
● Please refer to the “Troubleshooting” section when there are problems. Do not attempt to repair the equipment personally.	
● Please clean and disinfect the unit after use.	
● The device is for medication atomization.	
● Please do not store the device when there is liquid inside the medication cup.	
● Please confirm all the accessories are intact before use.	
● Please contact us if additional accessories are needed.	
● Do not run water on the outside of the device.	
● Don't use the device in the shower.	

ix. Troubleshooting Tips












If there is a low flow of mist or no mist coming out of the unit, it is probably a clogged mesh screen. Fill the medicine cup with some white vinegar and hot water and run the device for 1 minutes. This should clean out the clog. If it still is not running properly, dip a Q-tip in white vinegar and lightly twist the cotton head on both sides of the mesh. If that does not work, swap out the top part of the device by pressing in the button in the rear and pulling up on the medication cup.

x. Warranty

This unit is warranted to be free from any defects for a period of 1-year from purchase. We will either repair or replace the defective unit.

xi. Symbol description & Electromagnetic compatibility

1. Signs and symbols:

 <p>Refer to instruction manual/ booklet</p>	 <p>Separate collection for electrical and electronic equipment</p>	 <p>General imperative</p>	 <p>No toxic and harmful substances and elements</p>
 <p>Upward</p>	 <p>Do not disassemble</p>	 <p>Avoid Moisture</p>	 <p>The application part of Type BF</p>
 <p>Be careful of electric shock</p>	 <p>power key</p>	 <p>Note, Warning, refer to enclosed file</p>	

2. Electromagnetic compatibility:

Precautions

<p>Guidance and Manufactures declaration-electromagnetic</p>		
<p>This device is intended for use in the electromagnetic environment specified below. The user of this device should ensure that it is used in such environment.</p>		
<p>Emissions text</p>	<p>Compliance</p>	<p>Electromagnetic environment-Guidance</p>

RF emissions GB 4824	Group 1	This device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. This device is suitable use in all establishments, including domestic establishments and those directly connected to the buildings used for domestic purpose.
RF emissions GB 4824	B	
Harmonic emissions GB 17625.1	N/A	
Voltage fluctuations/ flicker emissions GB 17625.2	N/A	

Guidance and Manufactures declaration-electromagnetic immunity

This device is intended for use in the electromagnetic environment specified below.
The user of this device should assure that is used in such an environment.

Immunity test	IEC 60601test level	Compliance level	Electromagnetic environment-guidance.
Electrostatic discharge GB/T 17626.2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	The ground shall be wood, concrete or tile, and if the ground is covered with synthetic material, the relative humidity shall be at least 30%
Electrical fast transient burst GB/T 17626.4	±2kV power ±1kV input/output	N/A	N/A
Surge GB/T 17626.5	±1 kV cable to cable ±2 kV cable to the ground	N/A	N/A
Voltage dips short interruptions and voltage variations on power cable GB/T 17626.11	<5%UT continuous 0.5 cycle (>95% shortly dips on UT) 40% UT, continuous 5 cycle (60% shortly dips on UT) 70% UT, continuous 25 cycle(30% shortly dips on UT) <5%UT, continuous 5s (>95% shortly dips on UT)	N/A	N/A

Recommended separation distances between our portable device and portable or mobile FR communication equipment.


This device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of our equipment can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and our product as recommended below, according to the maximum output power of the communications equipment.

maximum output power rate of transmitters (w)	separation distance according to frequency of transmitter		
	150 kHz ~ 80 MHz $d = 1.2\sqrt{P}$	80 MHz ~ 800 MHz $d = 1.2\sqrt{P}$	800 MHz ~ 2.5 GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter. Where p is the maximum output power rating of the transmitter in watts (w) according to the transmitter manufacturer.

▲ Precautions

- 1) The device shall comply with YY 0505-2012 《Medical Electrical Equipment Part 1-2: Safety – General requirements - Parallel standards: Electromagnetic compatibility requirements and testing》. At the same time fulfil with GB4824-2013 《Industrial Science and Medical (ISM) RF equipment harassment characteristics of the limits and measurement methods》 in a group B requirements.
- 2) Portable and mobile RF communication equipment may affect the performance of the device. Avoid strong electromagnetic interference when using, such as close to mobile phones, microwave ovens and so on.

Power frequency magnetic field (GB/T 17626.8)	3A/m 50Hz, 60Hz	3A/m 50Hz, 60Hz	Power frequency magnetic field should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Conducted RF GB/T 17626.6	3V rms 15KHz to 80 MHz	3V rms	<p>Portable and mobile radio-frequency communication equipment should not be used close to any part of this portable mesh device less than recommended. Isolation distances, including cables. The isolation distance is recommended according to the following formula:</p> $d = 1.2\sqrt{P} \quad 150 \text{ kHz} \sim 80 \text{ MHz}$ $d = 1.2\sqrt{P} \quad 80 \text{ MHz} \sim 800 \text{ MHz}$ $d = 2.3\sqrt{P} \quad 800 \text{ MHz} \sim 2.5 \text{ GHz}$ <p>Note: P—is the maximum power in (W), d—is the minimum separation distance in (m). The field strength of the fixed radio frequency transmitter is determined by the survey a. of the electromagnetic field. Each frequency range b should be lower than the current frequency. It will be affect when near to the equipment which have the following marks</p> 
Radiated RF GB/T 17626.3	3V/m 80MHz to 2.5GHz	3V/m	

NOTE:

UT means the Alternating current network voltage before applying test voltage.

1. At the 80MHz and 800MHz frequency stores, the formula of high frequency band is adopted. The guidance is not suitable for all situations. The electromagnetic transmission is affected by the building, object and body's respiration and reflection.

1. Stationary transmitter, such as cell phone, Ground mobile radio base station, amateur radio, amplitude modulated and FM radio and television broadcast, their field is not accurate in theory. To assess the electromagnetic environment of the stationary RF transmitter. The investigation of electromagnetic fields should be considered. If the field intensity of the place where the product is measured is higher than the above applicable RF level, the equipment should be observed to verify its normal operation. If abnormal performance is observed, additional measures should be taken as required, such as readjustment of the direction or position of the portable device.

2. In the range of 150kHz ~ 80MHz, field intensity should be less than 3V/m.

xii. Inspection

Wizard Research Laboratories

www.WizardResearch.com

Contact@WizardResearch.com

213-471-8050

Please do not return this product.

Contact us for any issues.

Model: Nebulizer Wizard



Prolinx GmbH
Brehmstr. 56, 40239 Duesseldorf
Germany

xiii. Parts

Item	Quantity	If Included	
		Yes	No
Unit	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Medication cup	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Adult mask	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Child mask	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mouthpiece	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
User manual	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wall charger	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Certificate of inspection	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Velvet bag	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Micro USB cable	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>