

# Magic Pencil Instruction Manual

\*Please read this manual carefully before using the product and keep it properly

## Instruction to Users

Vispek Magic Pencil is a portable spectral analysis tool. It uses spectral analysis technology to obtain spectral fingerprint data of substances, and with AI big data model, connects to APP through Bluetooth to detect the composition of various substances. Compact and portable, easy to operate and widely used.

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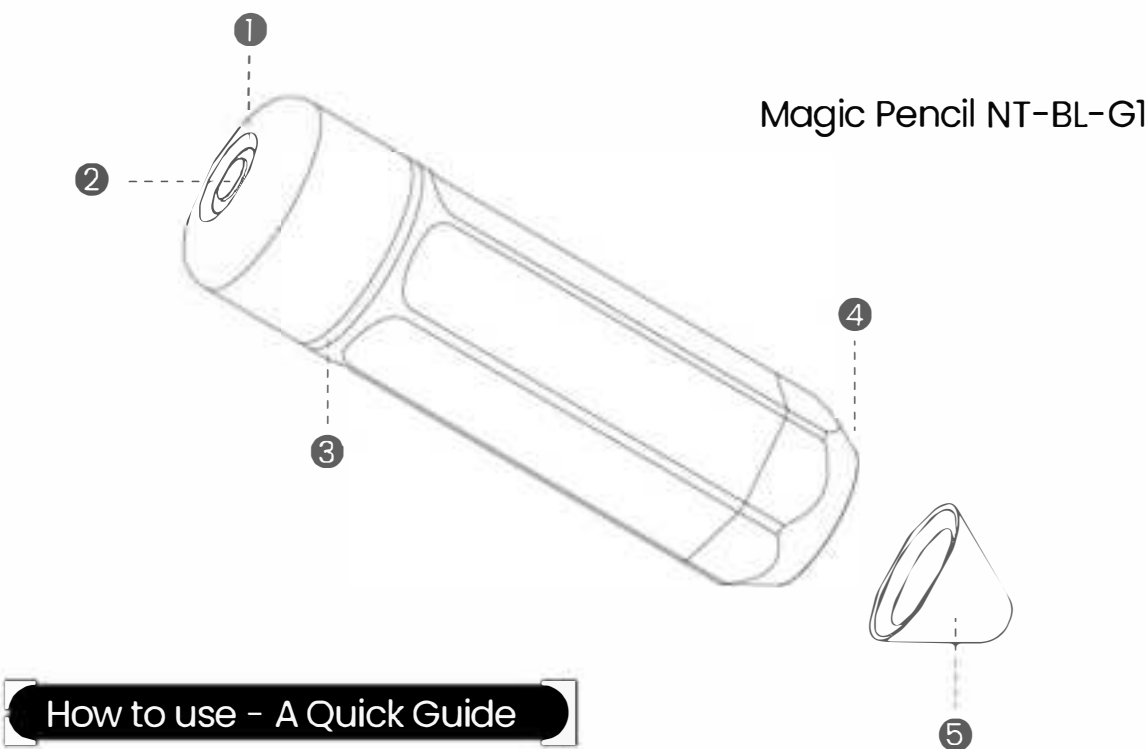
Magnetic suction Charger
- 2

On/Off Button
- 3

Indicator
- 4

Spectrum window
- 5

Protective cover



## How to use - A Quick Guide

### 1. How to download the APP



### 2. How to turn on the device

Long-press for 2 seconds,blue indicator flashes means that device is turned on

### 3. How to connect to APP and get ready for detection

Start the App -- connect the device (when the device indicator turns blue , it is connected) -- select the test capability that you want -- operate according to the operation instructions in the App -- test is completed and view the result

### 4. How to turn off the device

Long-press for 2 seconds, indicator light turns off

Note: Device automatically turns off in 2 minutes once bluetooth gets disconnected

### 5. How to charge the device

If the indicator is steady red or cannot be started, please try charging the device.

Blinking red - charging. Indicator turns off - charging completed.

## Function Specifications

Product	Magic Pencil
Model	NT-BL-G1
Input	DC 5V $\pm$ 600mA
Charger mode	Magnetic type
Led (Red)	Flashing: charging On: insufficientpower Off: full charge
Led (Blue)	On: Bluetooth connected Flashing: Bluetooth disconnected
Operation power	1W max
Battery Type	Li-Polymer Battery
Battery capacity	620mAh 3.7V 2.3Wh
Dimensions	$\phi$ 26*99.5mm(D*L)
Weight	65g
Connection	Bluetooth 5.0, 2.4GHz
Maximum Distance	2m
Working Environment	0~40℃ / $\leq$ 80 RH
Storage Environment	-10~+60℃ / $\leq$ 80 RH
Sensor Detection	Spectral reflection
Response wavelength	200-1700nm
Light wavelength range	255-1650nm
Spectrum window area	$\phi$ 9mm
Spectral resolution	An average of 33 nm
Stability	<3%(UV region) <1%(Visible and infrared region)
Wavelength accuracy	$\pm$ 1nm
Wavelength repeatability	< 0.2nm
Channels	44
Spectrum partition	UV region (channel 1-6) : 255nm-400nm VIS region (channel 7-22) : 400-780nm NIR region (channel 23-34) : 780-1100nm SWIR region (channel 35-44) : 1100-1700nm
Scanning Duration	About 7s
Type of detector	Si and InGaAs
Sensitivity.ty	0.96A/W@940nm@Si , 0.95A/W@1550nm@InGaAs
Dark current .max	2nA@Si , 1.5nA@InGaAs
Junction capacitance.typ	14pF@Si , 50pF@InGaAs
Light work life	100000 hours

\* Parameters are subject to change without prior notice

## Guarantee

The after-sales service of this product is strictly in accordance with the "Protection of the Rights and Interests of Consumers of the People's Republic of China" and "Product Quality of the People's Republic of China" to implement the after-sales service of three guarantees, service content is as follows:

1. Within 7 days from the date of receipt, if the product sees performance listed in the "Product Performance Fault Table", the after-sales service center of our company will test and confirm the failure, and you will a enjoy free return or replacement service;

2. Within 8-15 days from the date of receipt of the product, if there is a performance fault listed in the "Product Performance Fault Table", the product shall be tested and determined by the after-sales service center of the company, and the replacement or repair service shall be free of charge;

3. Within 12 months from the date of receipt, if the product has any performance failure listed in the "Product Performance Failure Table", the after-sales service center of our company will test and confirm the failure, and you can enjoy free maintenance service.

## Non-warranty Range

- Unauthorized maintenance, misuse, collision, negligence, abuse, liquid injection, accident, modification and use of accessories other than the product.
- The validity period of three guarantees expired.
- Damage caused by force majeure.
- Fail to meet the performance fault listed in the Product Performance Fault Table.
- Product performance failure caused by improper human operation.

## Product performance fault list

- Bluetooth fails to connect
- The switch does not respond
- The battery is damaged and cannot be charged

## Warning

- Do not aim the spectrum window at your eyes.
- Do not try to remove or replace the internal parts of the device. If you need any advice, please contact the agent or official customer service.
- Do not place the device on a heat source or directly exposed to the fire.
- This product and small parts inside, if swallowed by children may lead to choking and other hazards.

## Note

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.

Any 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.
- The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



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