

NUX



N-1 PRO
Digital Wind Instrument



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Made in China

User Manual

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WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

FCC Warning

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.

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.

RX FCC RF exposure statement

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

TX FCC RF exposure statement

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Package Contents

N-1 PRO Digital Wind Instrument x1



User Manual x1



Charging Cable x1



Power Adapter x1



Spare Mouthpieces x4



Breath Monitoring Mouthpiece x1



Mouthpiece Cap x1



Audio Cable x1



Screwdriver x1



Neck Strap x1



Mouthpiece Water Absorber x1



Headphone Splitter Cable x1



Instrument Bag x1

Overview

Device Type

A touch-sensitive electronic wind instrument system that combines music performance with health monitoring functions.

Sound Library

100 sampled voices including Woodwind, Brass, Ethnic, and Electronic instruments.

Health Monitoring

UV sterilization for mouthpieces, lung function monitoring (vital capacity), and breath freshness (odor) detection.

Connectivity

5.8GHz wireless transmission for speakers/mixers, Bluetooth 5.3 for backing tracks, and USB-C for charging/PC connection.

Controls

Upgraded pitch bend sensors and octave rollers.

Note

* This is not a medical device. Data is for reference only and not for medical diagnosis.



Parts and Controls



1 Standard Mouthpiece	2 Custom Indicator Light
3 Performance Keys	4 Built-in Speaker
5 Mouthpiece Cap	6 Display Screen
7 Page Buttons (Left/Right)	8 Thumb Controller
9 Quick Save Buttons	10 Mode Switch
11 Home Button	12 Portamento Bar
13 Octave Rollers	14 Neck Strap Hook
15 Thumb Rest	16 Pitch Bend Plate
17 Bluetooth Button	18 Power Button
19 UV/Wireless Button	20 Reset Hole
21 3.5mm Headphone Jack	22 Charging LED
23 USB Port	24 Passive Diaphragm
25 6.35mm Audio Out	26 Water key
27 Health Mouthpiece	28 Breath Sensor Hole

- 1 Standard Mouthpiece**
For N-1 PRO only.
- 2 Custom Indicator Light**
Status display.
- 3 Performance Keys**
13 touch-sensitive keys for various fingerings (Sax, Flute, etc.).
- 4 Built-in Speaker**
Internal audio output.
- 5 Mouthpiece Cap**
Protective cover.
- 6 Display Screen**
Shows device status and settings.
- 7 Page Buttons (Left/Right)**
Navigate through menu pages.
- 8 Thumb Controller**
Move in four directions to adjust settings; press to confirm.
- 9 Quick Save Buttons**
Save and recall user presets.
- 10 Mode Switch**
Toggle between Performance Mode and Health Monitoring Mode.
- 11 Home Button**
Press to return to the Home screen.
- 12 Portamento Bar**
Touch to activate slides or special techniques.
- 13 Octave Rollers**
8 rollers covering a 7-octave range.

14 Neck Strap Hook

Attachment point for the strap.

15 Thumb Rest

Support for the thumb.

16 Pitch Bend Plate

Control pitch shifts.

17 Bluetooth Button

Toggle Bluetooth on/off.

18 Power Button

Long press to turn on/off.

19 UV/Wireless Button

Toggle UV light (Health Mode) or Wireless system (Performance Mode).

20 Reset Hole

Force restart the device using a pin.

21 3.5mm Headphone Jack

For silent practice or internal recording.

22 Charging LED

Lights up when charging; turns off when full.

23 USB Port

For charging, firmware updates, and PC connection.

24 Passive Diaphragm

Enhances bass response.

25 6.35mm Audio Out

Connect to external amplifiers.

26 Water key

For moisture exit.

27 Health Mouthpiece

Used specifically for health monitoring tests.

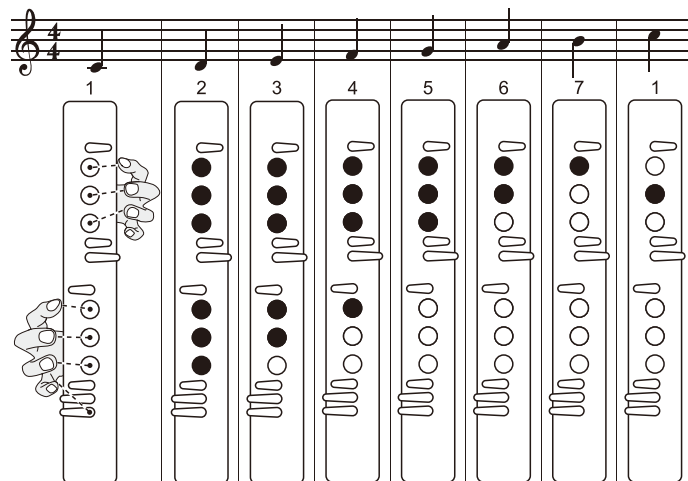
28 Breath Sensor Hole

Detects breath odor in Health Mode.

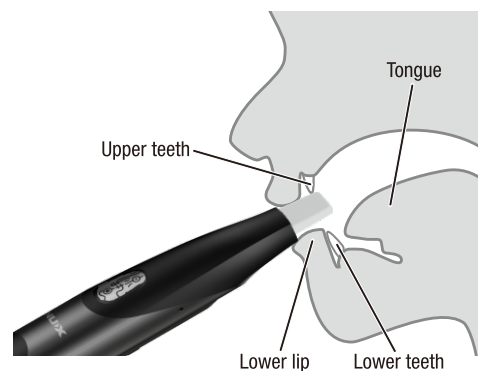
Getting Started

Playing Posture-Similar to playing a saxophone

1. Attach the neck strap to the hook.
2. Take right-handed persons as an example, place the right thumb in the thumb rest.
3. Place the left thumb in the center of the octave rollers.
4. Use the fingerings shown in the charts.



5. Wrap lips around the mouthpiece.



Saxophone Fingering

1	2	3	4	5	6	7	1

Hulusi Fingering

5	6	7	1	2	3	4	5
6	7						

E-flute Fingering

5	6	7	1	2	3	4	#4

Flute Fingering

5	6	7	1	2	3	4	5
6	7						

Note:
*Black dots indicate pressed keys
*White dots indicate open keys

Basic Functions

Power & Charging

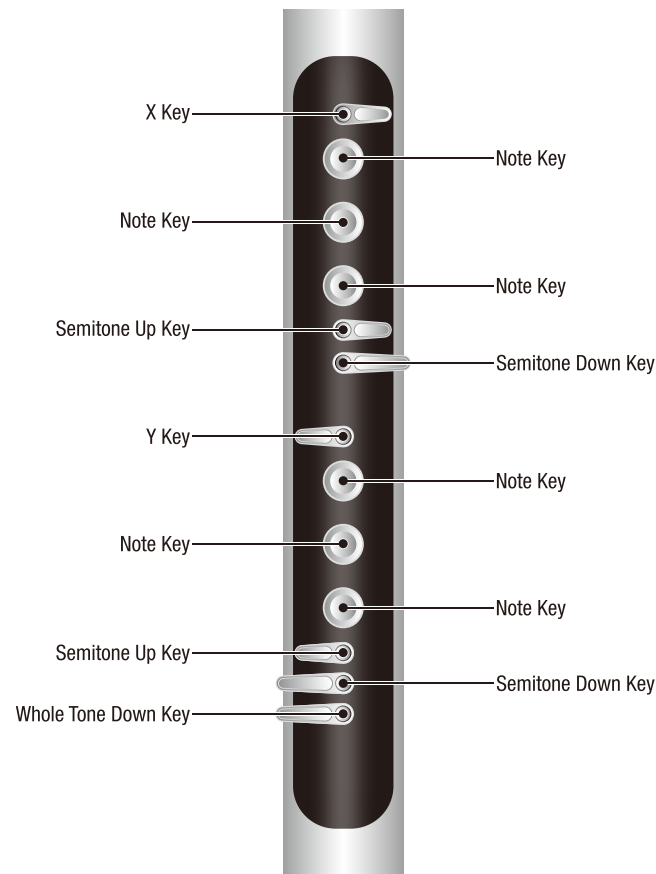
Long press Power for 2+ seconds to turn on/off.
Auto-off feature available in settings.

**Caution:** Use the original charger to prevent damage.

Power LED: On when powered; off when shut down.
Charging LED: On when charging; off when full.

Performance Keys

13 metal touch keys. Use specific fingerings combined with octave rollers to play notes.

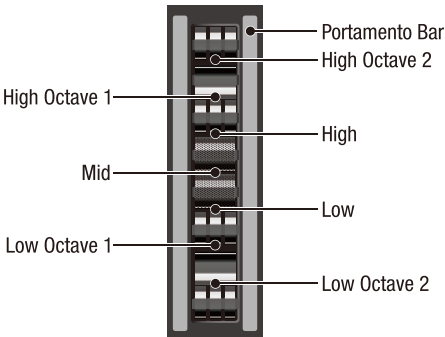


Note and Whole Tone Down keys are for basic fingerings. Semitone Up/Down keys are for sharps/flats. You can assign functions to the top X Key (Off, Technique, Quick Preset, Harmony) and Y Key (Semitone Up, Technique, Quick Preset, Harmony).

X/Y Keys: Customizable top keys for functions like Technique, Harmony, or Preset toggle.

Octave Rollers & Portamento

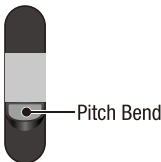
8 rollers allow 7 octaves of range. Touch the gap between rollers to set the octave.



Touch the Portamento Bars on either side of the rollers to activate slides or special techniques.

Pitch Bend

Touch the plate to shift pitch. Touch down to bend down; lift to bend up.
Bend depth (1-4 semitones) increases with the contact area of your thumb.

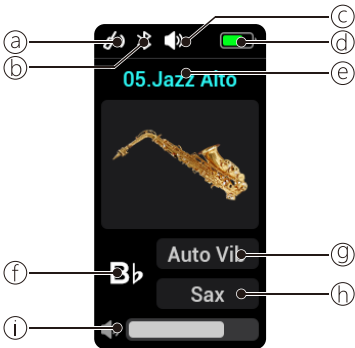


Playing Posture

Keep the Water key facing down while playing to ensure proper drainage.

Home Screen Overview

The Home Screen appears upon power-on.



a Wireless Transmission Icon

The device features 5.8GHz wireless audio transmission with a range of 10-15 meters, suitable for daily amplification needs.

Wireless Connection

Use the official wireless receiver (sold separately) to connect to speakers or mixers.

- 1. Long press the Power button on the receiver; the LED will flash red.
- 2. In Performance Mode, long press the [UV/Wireless] button on the instrument to activate wireless. The icon will light up on the screen, and the receiver LED will turn solid green once connected.

Unfold the receiver plug and insert it into the instrument input of your speaker or mixer. Adjust the volume on the external device. Your performance will now be transmitted wirelessly.

Wireless Mute

To mute temporarily, short press the [UV/Wireless] button. The icon will change to "🔇". Short press again to resume.

 **Caution:** If the connection fails, please re-pair the devices.

Pairing

- 1. Long press [UV/Wireless] to turn off wireless.
- 2. Turn off the wireless receiver.
- 3. Long press both the [UV/Wireless] button and the receiver's Power button for 6 seconds, then release to pair automatically.

b Bluetooth Icon

Bluetooth Media Playback

Connect phones, tablets, or PCs to play backing tracks.

- 1. Long press the [Bluetooth] button; the "📶" icon will flash to indicate pairing mode.
- 2. Select "NUX N-1 PRO" in your device's Bluetooth settings. A tone will sound and the icon will stay lit once connected.
- 3. Adjust backing track volume on your mobile device. Audio can be heard through the built-in speaker or sent along with your performance via wireless or the [Output] jack.

c Speaker Status

Toggle the built-in speaker on "🔊" or off "🔇" as needed.

d Battery Level

Green indicates full or normal battery; red indicates low battery. Use the included charger when red.

e Voice & Number

Displays current voice name and preset number.

f Key

Displays current key setting.

g Vibrato Mode

Displays current vibrato mode.

h Fingering

Displays current fingering type.

i Volume

Displays current output volume level.

Page Navigation

Short press left or right on the Thumb Controller to navigate settings; long press to return to the Home Screen.



 **Caution:** In settings, long press Thumb Controller or wait for idle timeout to return to the Home Screen.

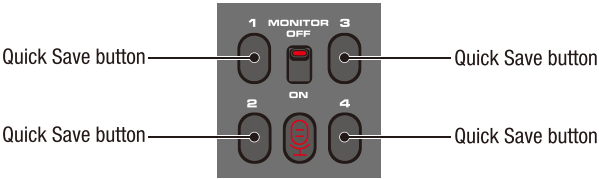
Selection & Settings

Use the Thumb Controller (up/down/left/right) to select content and adjust parameters in any menu.



Quick Save

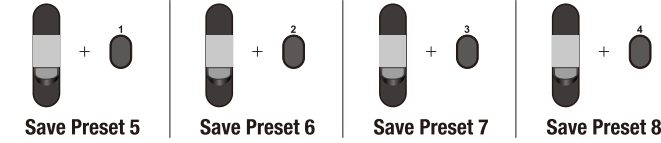
Long press any Quick Save button to store current settings. Short press to recall.



 **Caution:** Quick Save buttons only store key settings.

Combination Key Presets:

Hold Pitch Bend Plate + Long press Quick Save to store presets 5, 6, 7, and 8.



Hold Pitch Bend Plate + Short press Quick Save to recall presets 5, 6, 7, and 8.

Performance Mode Details

P1: Vibrato & Fingering

Short press [Left/Right Page] to enter "P1. Voice/Fingering Settings".



Vibrato Mode



Fingering Settings.

Use the Thumb Controller (Up/Down) to switch between Vibrato Mode and Fingering Settings.

Use the Thumb Controller (Left/Right) to adjust specific functions.

Vibrato Mode

1. Auto Vibrato: Automatically adds vibrato during performance. Speed and depth are determined by "Auto Vib. Rate" and "Auto Vib. Depth".
2. Bite Vibrato: Bite the mouthpiece to trigger vibrato. Depth changes with bite pressure; speed is set by "Auto Vib. Rate".
3. Expressive Vibrato: Repeatedly bite and release the mouthpiece to trigger vibrato. Depth is set by "Exp. Vib. Depth"; speed follows your bite/release frequency.

Fingering

Four fingering types: [Sax], [E-Flute], [Flute], and [Hulusi].
Refer to the Fingering Chart for details.

P2: Breath & Key Delay

Use the Thumb Controller (Up/Down) to switch between Breath Curve and Key Delay.
Use the Thumb Controller (Left/Right) to adjust settings.

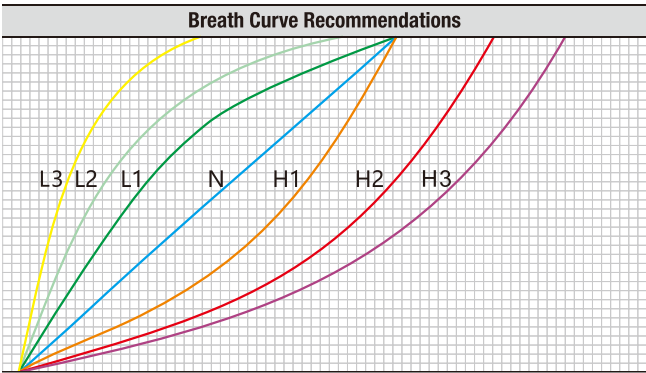


Breath Curve & Key Delay

Breath Curve

Seven curves: [H3] Ultra Strong, [H2] Extra Strong, [H1] Strong, [N] Standard, [L1] Soft, [L2] Extra Soft, [L3] Ultra Soft.

Different curves provide different feedback. Choose one that best suits your playing style and dynamics.



Vital Capacity	Recommended Curve
Below 1800	Use L3
1800-2500	Use L2
2500-3300	Use L1

Vital Capacity	Recommended Curve
3300-3800	Use N
3800-4500	Use H1

Key Delay

Five levels: 0–5.

Lower values mean faster response. Beginners are advised to use higher levels to avoid unwanted grace notes caused by unsynchronized finger movements.

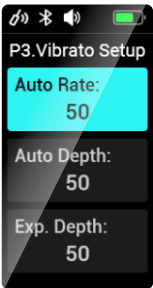
P3: Vibrato Settings

Adjust specific vibrato parameters here.

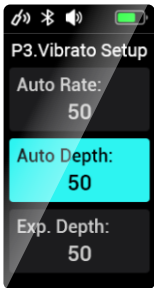
Auto Vib. Rate: Sets vibrato speed for Auto Vib. and Auto Bite Vib. (Range: 0–50).

Auto Vib. Depth: Sets vibrato depth for Auto Vib. mode (Range: 0–50).

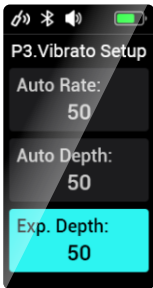
Exp. Vib. Depth: Sets vibrato depth for Expressive Vib. mode (Range: 0–10).



Auto Vib. Rate



Auto Vib. Depth



Exp. Vib. Depth

Effects & Parameter Settings

P4: Effects Settings

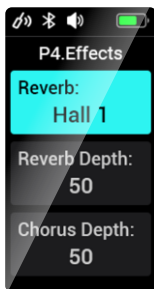
Adjust effect types and depth here.
Two effects available: [Reverb] and [Chorus].

Reverb Settings

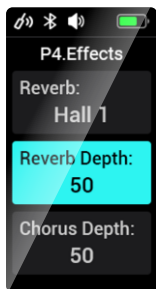
Five types: Hall 1, Hall 2, Hall 3, Room 1, Room 2.
Depth range: 0–50.

Chorus Settings

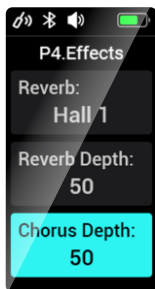
Depth range: 0–50.



Reverb Type



Reverb Depth

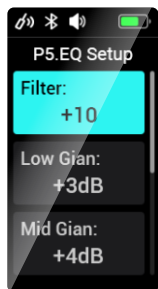


Chorus Depth

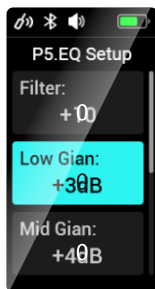
P5: EQ Settings

Adjust EQ (Equalizer) parameters and values here.

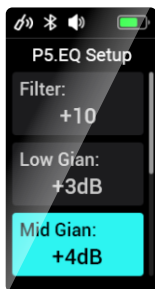
Filter	Adjusts the High-Pass Filter (HPF) effect. Range: ± 10 .
Low Gain	Adjusts low frequencies. Range: ± 12 dB.
Mid Gain	Adjusts mid frequencies. Range: ± 12 dB.
High Gain	Adjusts high frequencies. Range: ± 12 dB.



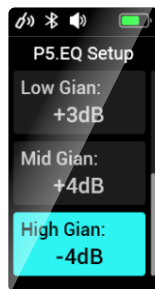
Filter



Low Gain



Mid Gain



High Gain

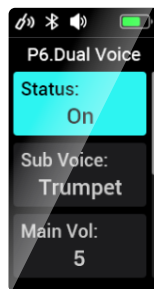
Caution: If EQ gains are increased, reduce the overall volume to avoid speaker distortion.

P6: Dual Voice Settings

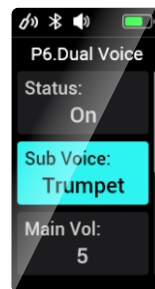
Toggle Dual Voice, select sub-voice type, and adjust the balance between two sounds.

Dual Voice	Enable to layer two different voices for a richer sound.
Sub-Voice	Select your second layered voice from the standard library.
Main Vol	Adjusts the volume of the primary voice. Range: 0–100.
Sub Vol	Adjusts the volume of the secondary voice. Range: 0–100.

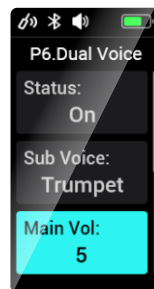
Caution: Harmony function is unavailable when Dual Voice is enabled.



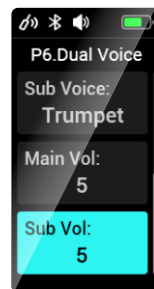
Dual Voice On/Off



Sub-Voice



Main Vol

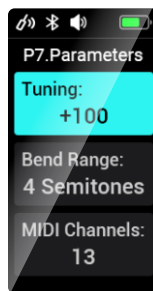


Sub Vol

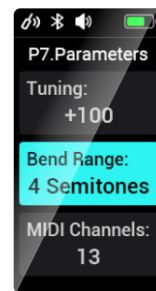
P7: Parameter Settings

Adjust performance-related parameters and values here.

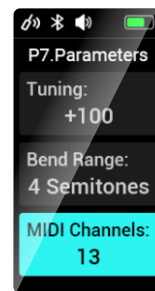
Cent Tuning	Fine-tune the pitch between semitones to match other instruments or orchestras. Range: ± 100 cents.
Bend Range	Sets the Pitch Bend Plate range (1–4 semitones), enabling Minor 2nd, Major 2nd, Minor 3rd, or Major 3rd bends. Depth depends on contact area.
MIDI Channel	Sets the channel for outgoing MIDI signals. Default: 0.
Legato Time	Adjusts the transition time between notes. Levels: 0–4. Higher levels mean longer transitions.



Cent Tuning



Bend Range

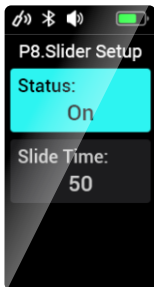


MIDI Channel

P8: Portamento Bar Settings

Configure the Portamento Bars located on both sides of the octave rollers.

Portamento Switch	Toggle the Portamento Bar function on or off.
Portamento Time	Adjusts the slide rate/speed. Range: 0–100.



Portamento Switch



Portamento Time

P9: X & Y Key Settings

Customize the functions and parameters of the top custom keys.

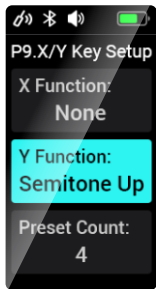
X Key Functions: Off, Technique, Harmony, Quick Preset.

Y Key Functions: Semitone Up, Technique, Harmony, Quick Preset.

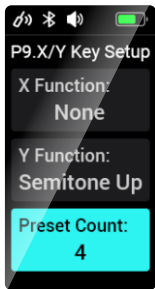
Technique	Activates special techniques for specific instruments.
Harmony	Adds an octave harmony to the original note.
Quick Preset	Sets the number of presets to cycle through. E.g., if set to 4, it cycles through the first 4 Quick Save slots.
Semitone Up	Shifts the pitch up by a semitone during performance.



X Key Settings



Y Key Settings



Quick Preset

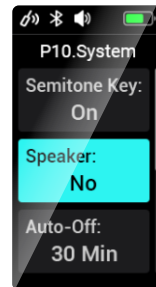
P10: System Settings

Adjust other system-level settings here.

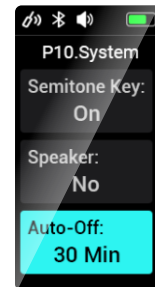
Semitone Key	Toggle the five sharp/flat keys in the performance area on or off.
Speaker Mute	Toggle the built-in speaker on or off.
Auto-Off	Set the idle time before automatic shutdown. Range: 10–60 minutes.
Factory Reset	Restore all settings to factory defaults.
Software Version	Displays current firmware/software information.



Semitone Key On/Off



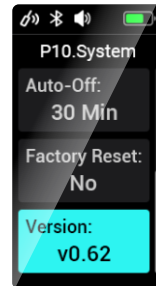
Speaker On/Off



Auto-Off



Factory Reset



Software Version

Health Monitoring Mode Details

Mode Activation

The device includes a Health Monitoring Mode to track vital capacity, breath odor, and lung function. Toggle the Health Monitor Switch down to activate this mode.



Caution: This is not a medical device. Data is not for medical diagnosis. Consult a doctor if you feel unwell.

P1: Vital Capacity Monitoring

Monitor your vital capacity data in this menu.

Remove the standard mouthpiece and insert the included Health Monitoring Mouthpiece.

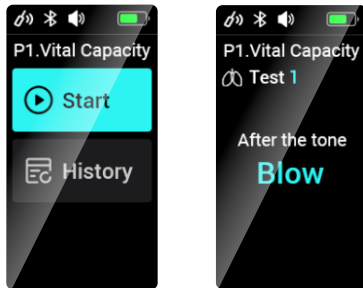
Caution: Ensure the rear mouthpiece adapter is firmly inserted when testing vital capacity.



Testing Steps

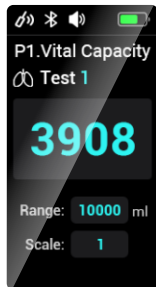
Select [Start Monitor] and press the Thumb Controller to confirm. The screen will display "1st Test" and "Please Blow". Follow the voice prompts for the first breath.

Caution: Blow at a steady rate and do not block the air vent, as this will affect the results.

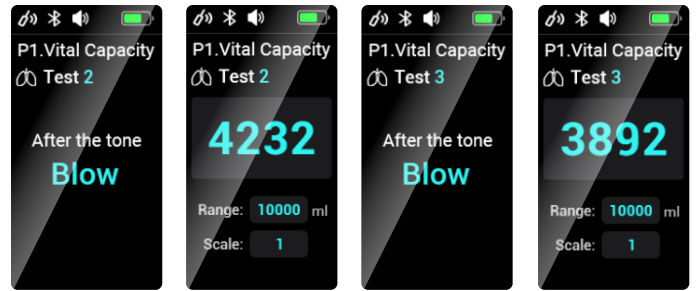


Check the 1st test result following the voice prompt, then press the Thumb Controller to confirm.

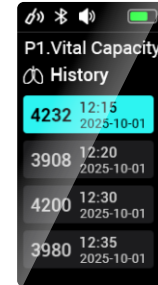
Caution: Remove the rear mouthpiece adapter when testing lung function.



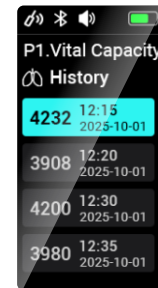
After confirmation, proceed to the 2nd test. Repeat the steps three times as prompted.



Press the Thumb Controller again to view the final monitoring results.



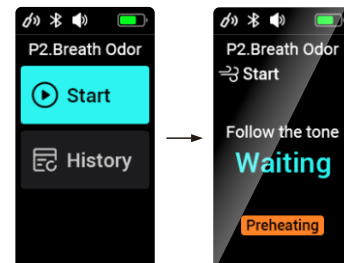
Once finished, press OK or the Page buttons to return to the P1 home screen. Your data from the past month will be saved under the [History] tab for anytime viewing.



P2: Breath Odor Monitoring

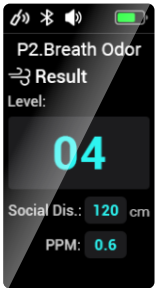
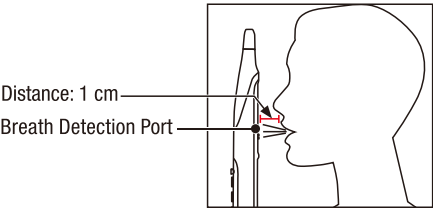
Breath odor monitoring evaluates odor levels. The device provides data on safe social distance and PPM (Volatile Sulfur Compounds) concentration.

Select [Start Monitor] and press the Thumb Controller. The screen will show "Please Exhale" and "Preheat". The "Preheat" icon will flash during the warming process.

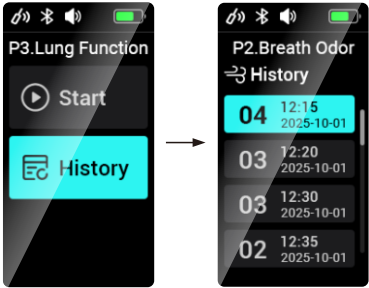


After preheating, take a deep breath, place your lips about 1 cm from the sensor, and exhale steadily for 5 seconds until your lungs are empty.

Follow the voice prompts to view results. Press OK or the Page buttons to return to the P2 home screen.



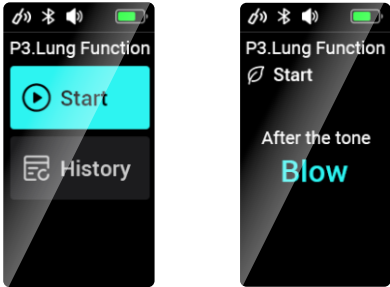
Your data from the past month will be saved under the [History] tab.



P3: Lung Function Health Monitoring

The device provides lung function health monitoring, giving real-time feedback on Peak Expiratory Flow (PEF), Forced Expiratory Volume in 1 second (FEV1), and Forced Vital Capacity (FVC), along with result evaluations and records.

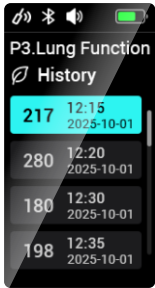
Remove the standard mouthpiece and insert the included Breath Monitoring Mouthpiece. Select [Start Monitor] and press the Thumb Controller. The screen will show "Start Monitor" and "Please Blow". Follow the voice prompts to blow.



View results as prompted.



Once finished, press OK or the Page buttons to return to the P3 home screen. Your data from the past month will be saved under the [History] tab for personal viewing.



P4: UVC Sanitization

N-1 PRO features a built-in medical-grade UVC sanitization system to kill bacteria on the mouthpiece and protect your respiratory health.

Steps

Mode	Toggle the switch to "Health Monitor" mode.
Cover	Ensure the mouthpiece cover is fully closed to prevent UVC leakage.
Start	Long-press the [UVC/Wireless] button on the body.
Auto-Finish	The process takes about 5 minutes and will shut off automatically.



! Caution:

Safety: This product uses UVC for physical sterilization. Always operate with the cover closed.

Do not look directly at the light: Never force open the cover or look at the UVC source during sanitization to avoid eye or skin damage.

Installation & Maintenance

Mouthpiece Replacement

Removal: Gently pull the mouthpiece upward to remove.

Installation:

- 1.Performance Mouthpiece: Align the base with the device and push in slowly and evenly until fully seated.
- 2.Health Monitor Mouthpiece: Align the dual-hole base with the device and push in slowly and evenly until fully seated.



Caution: Mouthpieces are made of food-grade silicone. Do not use corrosive chemical cleaners. Do not insert any objects into the air path, as this will damage the device.

Thumb Rest Adjustment

Loosen the screw to move the thumb rest up or down. Tighten the screw once adjusted to your preference.



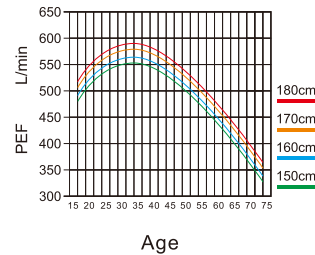
Caution: Ensure the thumb rest is positioned so that your thumb does not accidentally touch the Pitch Bend Plate during normal play.

Determining Peak Expiratory Flow (PEF)

PEF Reference Values (15+ Years & Adults)

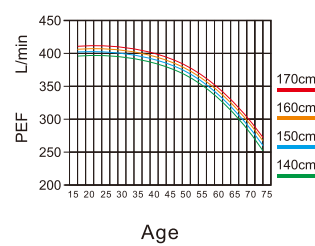
PEF L/min	Male	Height (cm)			
		150	160	170	180
Age	15	475	487	498	510
	20	514	526	538	550
	25	539	551	563	575
	30	551	564	575	587
	35	552	564	575	587
	40	542	554	566	578
	45	524	536	548	560
	50	499	511	523	535
	55	469	481	492	504
	60	434	446	458	470
	65	397	409	421	433
	70	359	371	383	395
	75	322	334	345	357

Male Normal values of peak flow (L/min) for children aged 15 and adults

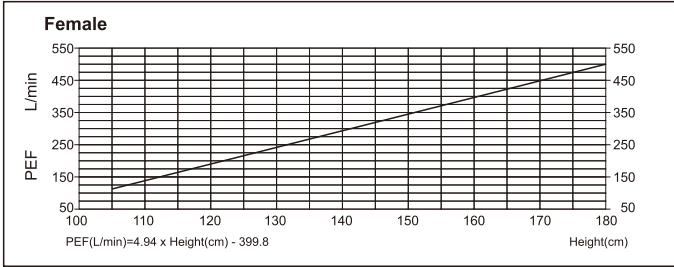
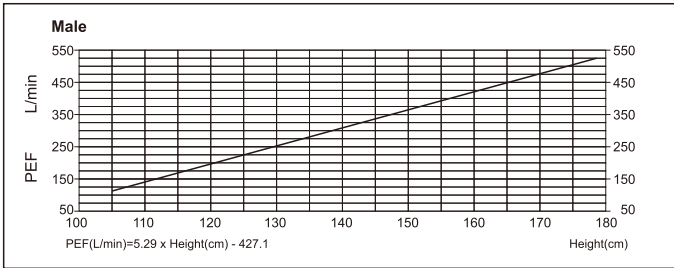


PEF L/min	Female	Height (cm)			
		140	150	160	170
Age	15	394	401	407	414
	20	395	401	408	415
	25	393	400	407	414
	30	390	396	403	410
	35	384	390	397	404
	40	375	382	389	396
	45	365	371	378	385
	50	352	359	365	372
	55	337	343	350	357
	60	319	326	333	339
	65	299	306	313	320
	70	277	284	291	298
	75	253	260	266	273

Female Normal values of peak flow (L/min) for children aged 15 and adults



PEF Reference Values (5-14 Years Children)



Data Source: "Normal values of peak expiratory flow and its application in bronchial asthma" (Guangzhou Institute of Respiratory Diseases. Chinese Journal of Tuberculosis and Respiratory Diseases: 1985, 3; 138-40)

Vital Capacity Comparison Table

Population	Low	Normal
Adult Male	< 3500 ml	≥ 3500 ml
Adult Female	< 2500 ml	≥ 2500 ml
Elderly	< 2500 ml	≥ 2500 ml
Children	< 50 ml/kg	50-70ml/kg

Breath Odor Levels

Level	Concentration(PPM)	Social Distance(CM)	Tip
LEVEL 0	0-0.1	0	Good
LEVEL 1	0.1-0.5	30	Good
LEVEL 2	0.5-0.8	60	Slight
LEVEL 3	0.8-0.9	100	Moderate
LEVEL 4	0.9-1.2	130	Severe

Technical Specifications

Sensors	Air pressure sensor, pressure sensor
Wireless Band	5.8GHz
Input Media	Bluetooth 5.3
Interfaces	6.35mm Audio Output
	3.5mm Headphone Output
	USB-C Port
Charging	Type-C, 5V/2A
Battery Life	Approx. 8 hours
Charging Time	Approx. 4 hours
Dimensions	687mm (L) x 62mm (W) x 73.5mm (H)
Weight	816g

Included Accessories

- User Manual x1
- Charging Cable x1
- Power Adapter x1
- Spare Mouthpieces x4
- Breath Monitor Mouthpiece ×1
- Mouthpiece Cap x1
- Audio Cable x1
- Screwdriver x1
- Neck Strap x1
- Mouthpiece Water Sleeve x1
- Headphone Splitter x1
- Instrument Bag x1

*Specifications are subject to change without notice.