

# QiCYCLE

Nano Bike Pump user manual



Read this manual carefully before use, and retain it for future reference.

## Translation of the original instructions



## WARNING

### General power tool safety warnings

**Read all safety warnings, instructions, illustrations and specifications provided with this power tool.**

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.** The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### 1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

#### 2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

#### 3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these**

**are connected and properly used.** Use of dust collection can reduce dust-related hazards.

- h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

#### **4) Power tool use and care**

- a) Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

#### **5) Battery tool use and care**

- a) Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- e) Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- f) Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
- g) Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

#### **6) Service**

- a) Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
- b) Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

## Precautions

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- The air compressor has a built-in lithium battery and should never be exposed to fire or improperly disposed of. Do not expose the air compressor's battery to high temperature environments, such as leaving it in a car in direct sunlight. If the lithium battery is exposed to extreme heat, impact or water, there is a risk of fire, spontaneous combustion, and even explosion.
- The air compressor should not be stored at temperatures below -10°C or over 45°C. Exposure to extreme heat or cold will shorten the air compressor's service life and damage the built-in battery.
- Leaving the air compressor unused for long periods may harm the battery. It is recommended to charge the air compressor at least once every three months.
- The air compressor uses a built-in DC motor which may produce electrical sparks when running and should never be used in flammable or explosive environments.
- If the air compressor makes an unusual noise while running or starts to overheat, turn it off immediately.
- Always make sure the correct air pressure unit is selected before setting the air pressure to prevent accidents such as a burst tire. Common Unit Conversion: 1 bar = 14.5 psi, 1 bar = 100 kPa.
- Always monitor the air compressor during usage and never leave it unattended when using it without presetting a pressure to avoid over-inflating.
- Only use the air compressor in a clean, dry environment. Intrusion of dirt and dust may cause damage to the air compressor. The air compressor is not waterproof and should never be rinsed with water.

## SAFETY PRECAUTIONS

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### Attention!

Read all warnings, instructions, illustrations, and safety rules provided with this power tool, and keep them for future reference. Before using the product, carefully read this manual and store it in a safe place. During operation, the device produces noise of about 80 dB; please take necessary precautions. During extended continuous use, the housing and air hose may become hot-allow them to cool down before using the device again. This device is not a toy and must not be used by children.

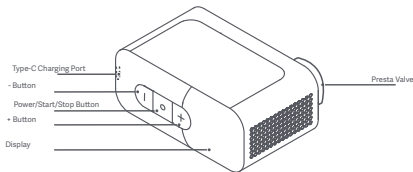
## Product Description

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Can be used for inflating the tires of bicycles, electric bikes, some motorcycles, scooters, and other products.

## COMPONENT DESCRIPTION

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**Note:** The product images, accessories, user interface, etc., shown in this manual are schematic and for reference only. Due to product updates and improvements, actual product features may slightly differ from the illustrations. Please refer to the actual product.

## PACKAGE CONTENTS



Presta Valve  
× 1



Needle Valve Adapter  
× 1



Charging Cable  
× 1



High-pressure Air Hose  
(including nozzle)  
× 1

## Battery Level Indicator & Charging



⚡ ≤ 25%



25% < ⚡ ≤ 50%



50% < ⚡ ≤ 75%



75% < ⚡ ≤ 100%

### Charging

Fully charge the device before first use.

Connect the charging cable to a 5V USB adapter and the inflator device.

Charging indicator behavior:

While charging: The battery indicator flashes.

Fully charged: The battery indicator stops flashing (turns off).

Notes:

- The device is turned off during charging and cannot be used.
- A safe, standards-compliant adapter must be purchased separately for charging.

## OPERATING INSTRUCTIONS

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### Power On / Off

Power On:

Press and hold the Power/Start/Stop button for about 2 seconds to turn on the device.

Power Off

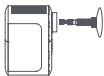
While the device is on, press and hold the Power/Start/Stop button to turn it off.

If no action is taken for 3 minutes, the device will automatically power off.

## PRESTA VALVE

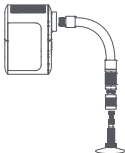
Connect the Nano device nozzle to the Presta valve on the tire for inflation. During inflation, ensure the nozzle is tightly pressed against the valve.

Tip: When using a Presta valve, first unscrew the valve nut completely and secure it.



### 1. Connection via Valve

Connect the Presta valve of the device directly to the valve on the tire for inflation.

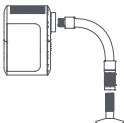


### 2. Connection via Hose

Connect the device to the included high-pressure hose and install the Presta valve adapter. Then connect it to the valve on the tire for inflation.

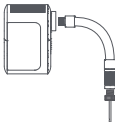
## SCHRADER VALVE

Connect the nozzle of the device to the included high-pressure hose, then connect it to the Schrader valve on the tire for inflation.

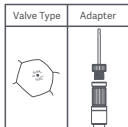
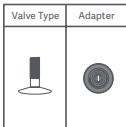
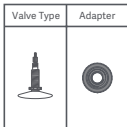


## BALL NEEDLE

Connect the nozzle of the device to the ball needle or to the included high-pressure hose with the ball needle, then insert the needle into the ball's inflation valve and start inflating.



## Valve Type



## REFERENCE AIR PRESSURE TABLE

| Category          | Type   | Recommended Pressure Range |
|-------------------|--|----------------------------|
| Bicycles          | Tires for Mi Smart Electric Folding Bike       | 35–45psi                   |
|                   | Tires for 12, 14, 16-inch bicycles             | 30–50psi                   |
|                   | Tires for 20, 22, 24-inch bicycles             | 40–50psi                   |
|                   | Tires for 26, 27.5, 29-inch mountain bikes     | 45–65psi                   |
|                   | Tires for Xiaomi Mi Electric Scooter           | 45–50psi                   |
|                   | Tires for Xiaomi Ninebot balance bike          | 40–60psi                   |
|                   | Tires for 700c road bikes(clincher)            | 100–130psi                 |
|                   | Tires for 700c road bikes(tube)                | 120–145psi                 |
| Motorcycles       | Tires for motorcycles and electric motorcycles | 26–44psi                   |
| Electric Bicycles | Tires for electric bicycles                    | 26–44psi                   |

Note: The recommended pressure range for inflation is provided for reference only; always refer to the instructions of the product being inflated.

Common units of measurement: 1 bar≈14.5 psi, 1 bar = 100 kPa, 1 psi ≈1 pound.

(The data above is from the QiCYCLE lab.)

## PRESSURE DETECTION

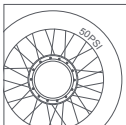
Turn on the device, connect it to the object for pressure checking, and the current pressure will be displayed on the screen.

The pressure measurement range of the device is from 3 to 150 psi.

## PRESSURE CHECKING

For safety, before inflating, make sure to refer to the instructions or other information sources about the required pressure for the item being inflated, to avoid damage or injury from over inflation.

## Tires



The acceptable pressure range for bicycle, electric bicycle, some motorcycle, and scooter tires is usually indicated on the sidewall of the tire.

The pressure level depends on the load weight, and for more precise pressure recommendations, refer to the product's manual.

## PRESET INFLATION PRESSURE

Pressure range:

Pressure unit- psi, adjustable range: 3-120 psi

Adjusting the preset value



Before inflating, you can set the preset pressure by briefly pressing the "+" or "-" buttons to change the pressure value, or by holding these buttons for fast pressure adjustment.

When the pressure value changes, the numbers will blink, indicating the target pressure is being adjusted, and when the numbers remain steady, it means the current pressure is displayed.

The pressure value is saved. And when the device is turned on, the pressure value set during the last inflation will be displayed.

## Residual risks

Even when the power tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the power tool's construction and design:

1. Damage to lungs if an effective dust mask is not worn.
2. Damage to hearing if effective hearing protection is not worn.
3. Damages to health resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.

**WARNING!** This power tool produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.

## Care & Maintenance

- Regular cleaning, maintenance, method for keeping tools sharp, and lubrication, charge at least once every three months.
- Do not attempt to repair the product by yourself; Only a qualified technician or the professional can repair it. Please contact customer service if needed.
- List of user-replaceable parts (High-pressure Air Hose & Schrader Valve, Presta Valve Adapter, Needle Valve Adapter and Charging Cable) .
- Special tools which may be required, do not disassemble and repair by yourself.

## Battery Safety

- Do not dismantle, open or shred cells. Batteries should be dismantled only by trained personnel. Multi-cell battery cases should be designed so that they can be opened only with the aid of a tool.
- Compartments should be designed to prevent easy access to the batteries by young children.
- Do not short-circuit a cell or battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials.
- Do not remove a cell or battery from its original packaging until required for use.
- Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
- Do not subject cells or batteries to mechanical shock.
- In the event of a cell leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Equipment should be designed to prohibit the incorrect insertion of cells or batteries and should have clear polarity marks. Always observe the polarity marks on the cell, battery and equipment and ensure correct use.
- Do not mix cells of different manufacture, capacity, size or type within a battery.
- Seek medical advice immediately if a cell or battery has been swallowed.
- Consult the cell or battery manufacturer on the maximum number of cells which may be assembled in a battery and on the safest way in which cells may be connected.
- A dedicated charger should be provided for each equipment. Complete charging instructions should be provided for all secondary cells and batteries offered for sale.
- Keep cells and batteries clean and dry.
- Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
- Secondary cells and batteries need to be charged before use. Always refer to the cell or battery manufacturer's instructions and use the correct charging procedure.
- Do not maintain secondary cells and batteries on charge when not in use.
- After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance.
- Retain the original cell and battery literature for future reference.
- When disposing of secondary cells or batteries, keep cells or batteries of different electrochemical systems separate from each other.

## Troubleshooting

|  |  |
|--|--|
| Slow inflation speed   | <ol style="list-style-type: none"> <li>1. Check if the battery is sufficiently charged.</li> <li>2. Check for any leaks.</li> <li>3. Ensure the connections between the nozzle and air hose are tightened.</li> <li>4. Check if the inflated items are leaking.</li> </ol>                           |
| Unable to inflate, although the device is turned on                                      | <ol style="list-style-type: none"> <li>1. Check if the battery is sufficiently charged.</li> <li>2. Check if the current pressure in the tire exceeds the preset value.</li> </ol>   |
| Inflating normally, but the displayed pressure is zero                                   | The pressure of low-pressure inflatable items , including balloons, is too low to measure.   |
| After attaching the nozzle, the device turned off automatically                          | Pressing and holding the power/start/stop button will turn the device on again.  |
| Air leakage when connecting the hose   | Please tighten the nozzle.   |
| In inflation mode, the battery level indicator is a different color than in standby mode | During discharge of the lithium-ion battery, a noticeable voltage drop occurs, leading to a difference in the color of the indicator between inflation mode and standby mode. This is not a malfunction.   |
| Do not turn on   | Ensure that the battery charge is sufficient.  |
| Unable to inflate / Unable to measure pressure   | <ol style="list-style-type: none"> <li>1. Make sure the correct valve tip is being used.</li> <li>2. If using a presta valve, ensure the nut on the valve core is unscrewed.</li> <li>3. If using a schrader valve, ensure the valve core is clean and free from dirt or foreign objects.</li> </ol> |
| Error codes H , L  | The temperature exceeds the range limits. Please leave the device at room temperature for 1 hour before reusing it.  |
| Error code E1  | The pressure exceeds the acceptable range. Please unscrew the nozzle and check if the device recovers. If the error code disappears, ensure the pressure on the inflated object does not exceed the permissible limit.   |

## TECHNICAL SPECIFICATIONS

|                            |   |
|----------------------------|---|
| Name                       | QiCYCLE Nano Bike Pump                          |
| Product model              | QJCQBNA   |
| Product dimensions         | 72 × 53 × 30mm                                  |
| Hose length                | 100mm   |
| Inflation pressure range   | 3-120 psi                                       |
| Pressure measurement range | 3-150 psi                                       |
| Operating temperature      | Charging: 0°C – 45°C, Discharging: -10°C – 45°C |
| Storage temperature        | -10°C – 45°C                                    |
| Battery capacity           | 500mAh (3.7Wh)                                  |
| Noise level                | Around 80 dB at 1 meter distance                |
| Screen size                | 16.25 × 14mm                                    |
| Maximum inflation power    | 70 W  |
| Input parameters           | 5V-2A   |
| Charging port              | USB Type-C                                      |
| Charging time              | Less than 1 hour                                |
| Sensor accuracy            | ±1psi   |

### **Wear hearing protection while operating the power tool.**

The declared vibration total value(s) and the declared noise emission value(s) have been measured in accordance with a standard test method and may be used for comparing one tool with another. The declared vibration total value(s) and the declared noise emission value(s) may also be used in a preliminary assessment of exposure.

### **Warning:**

The vibration emission and noise emissions during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used.

There is the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

## Symbol Descriptions



Read the user manual before using.



CE conformity.



All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.



## To Recycling Organizations

Remove the battery

1. Operate the power tool until the battery is completely discharged(empty).
2. Unscrew the screws on the enclosure and remove the enclosure.
3. Disconnect the connectors on the battery one at a time to prevent a short circuit.
4. Remove the battery.
5. Isolate the poles.

Even with complete discharge battery still has a residual capacity in the battery included, which can be released in the event of a short circuit.

## EC DECLARATION OF CONFORMITY

Business name of the manufacturer

iRiding (Shenzhen) Technology Co., Ltd.

Full address of the manufacturer

Room 1806, No.1 Yuexing Forth Road, Nanshan District, Shenzhen, Guangdong Province, 518000, P. R. China.

name and address of the person (established in the Community) compiled the technical file

Company: Outong GmbH

Contact Person: Jie Xue

Address: Brehmstr. 56, 40239 Duesseldorf, Germany

Country: Germany

We herewith declare that the machine

Product name: QiCYCLE Nano Bike Pump

Commercial name: QiCYCLE Nano Bike Pump

function: Intended to inflate some bicycles, and balls

Model/s: QJCQBNA

Type: Battery powered

serial number: NACEN/XXXXXXXX (the fourteen X's represent the natural number starting from 00000001)

fulfills all the relevant provisions of directives:

2006/42/EC, 2014/30/EU

and tested in accordance with below standards

EN 62841-1:2015+A11 EN 1012-1:2010; EN ISO 12100:2010;

EN 55014-1:2017+A11, EN 55014-2:2015

Place and date of the declaration: July, 2023, Shenzhen China

Signature of the person:



## UK DECLARATION OF CONFORMITY

Business name of the manufacturer

iRiding (Shenzhen) Technology Co., Ltd.

Full address of the manufacturer

Room 1806, No.1 Yuexing Forth Road, Nanshan District, Shenzhen, Guangdong Province, 518000, P. R. China.

Name and address of the person (established in UK) compiled the technical file

Company: Prolinx Global LTD

Contact Person: Mr. Nianzhuang Liu

Address: 27 Old Gloucester Street, London, WC1N 3AX, UK

Country: UK

We herewith declare that the machine

Product name: QiCYCLE Nano Bike Pump

Commercial name: QiCYCLE Nano Bike Pump

function: Intended to inflate some bicycles, and balls

Model/s: QJCQBNA

Type: Battery powered

serial number: NACEN/XXXXXXXX (the fourteen X's represent the natural number starting from 00000001)

Fulfills all the relevant provisions of regulations:  
Supply of Machinery (Safety) Regulations 2008  
(UK SI 2008 No.1597)

and tested in accordance with below standards

BS EN 62841-1:2015+A11; BS EN 1012-1:2010; BS EN ISO 12100:2010

BS EN 55014-1:2017+A11, BS EN 55014-2:2015; BS EN IEC 55015:2019+A11, BS EN 61547:2009

Place and date of the declaration: July, 2023, Shenzhen China

Signature of the person:



Version: V1.0 20250513

Manufactured by: iRiding (Shenzhen) Technology Co., Ltd.

Address: Room 1806, No.1 Yuexing Forth Road, Nanshan District, Shenzhen, Guangdong Province,  
518000, P. R. China.

For further information, please go to [www.qicycle.com](http://www.qicycle.com)

## Warranty Card

The warranty period of the product is 24 months

Any performance defects of the product caused by manufacturing may be repaired or replaced free of charge within 24 months as from the date of purchase.

How to return the product

Please contact your local retailer or online store where you purchased the product.

Return of information sheet

To handle your returned product as soon as possible, we need the following information. Please fill in this sheet and place it in your returned package.

Name of product:

Order No.:

Date of purchase:

E-mail:

Place of purchase:

If the product is purchased through Amazon, please use Amazon's 30-day return service.





