



# Generation ROBOTS NAO 6 Programmable Humanoid Robot User Guide

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6 = Soft Bank Robotics NAO



How to manage NAO  
User Guide

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## NAO 6 Programmable Humanoid Robot

Before starting

NAO Initial Setup:

[www.softbankrobotics.com/support](http://www.softbankrobotics.com/support)



Please read this document carefully before using NAO™. We recommend that you store this document after reading for future reference.

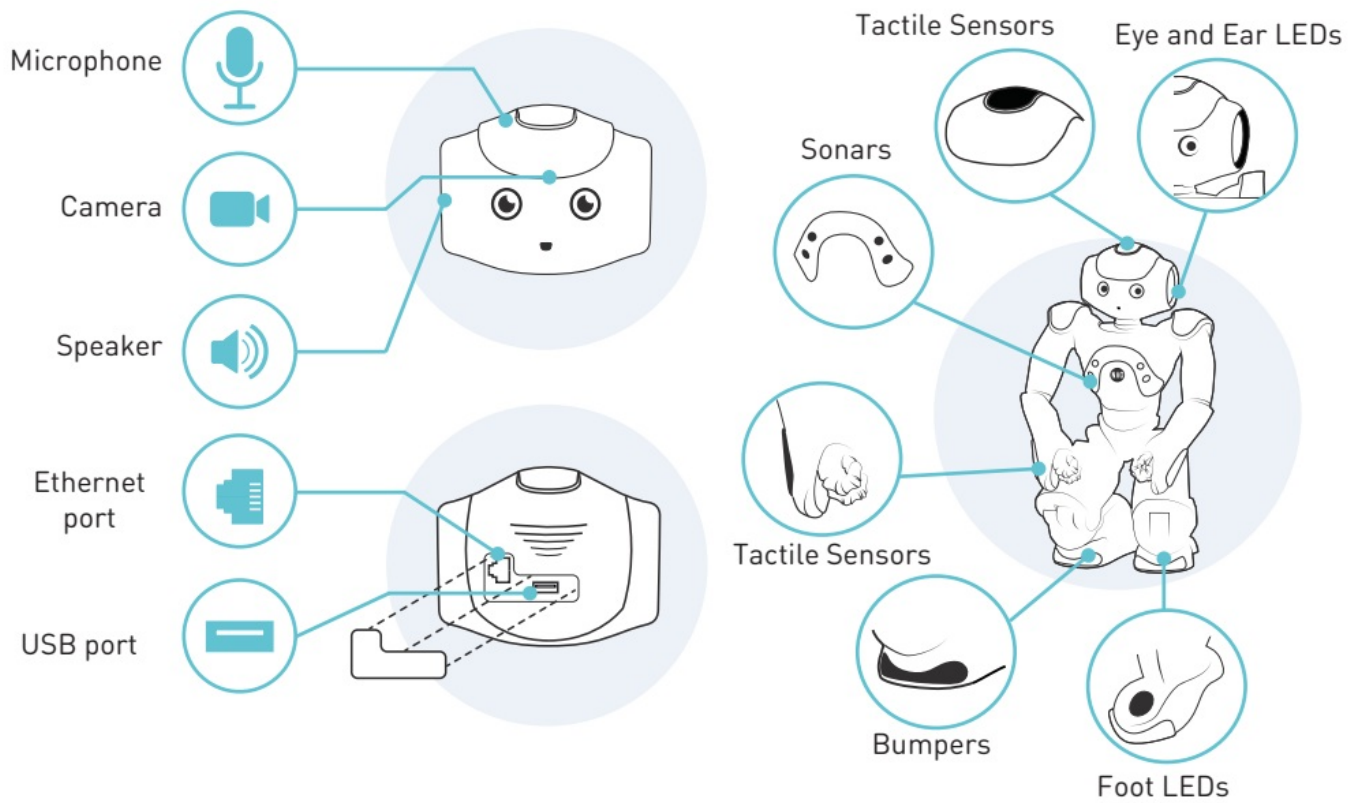
For the latest version of this guide and for SoftBank Robotics Support go to:

[www.softbankrobotics.com/support](http://www.softbankrobotics.com/support)

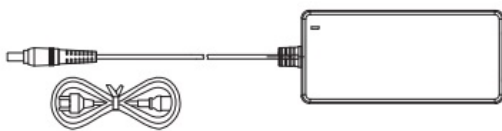
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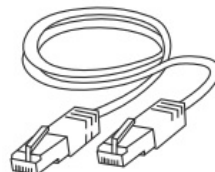
## Overview



## Accessories



Battery Charger



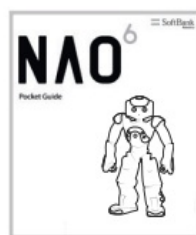
Ethernet Cable



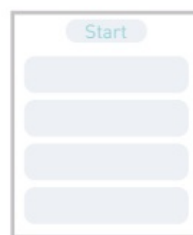
Keep the box and packaging to store your NAO.



Certification and technical information



This User Guide



Hello Guide (unboxing & setup)




Battery Charger User Manual



## Handling





Holding NAO by the waist is the best way to handle the robot and avoid pinching. It is easier to handle NAO when motors are OFF.



 Be careful when picking up NAO: do not place your hands and fingers near the joints or between the limbs as you could be pinched.  
Do not pull NAO by the head, the arms, or the legs, otherwise you might damage the joints. NAO's fingers are fragile, do not pull on them, they might come off.



## Location

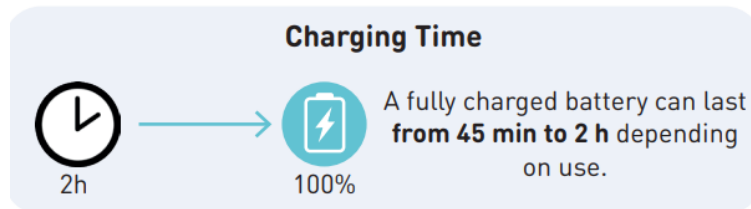
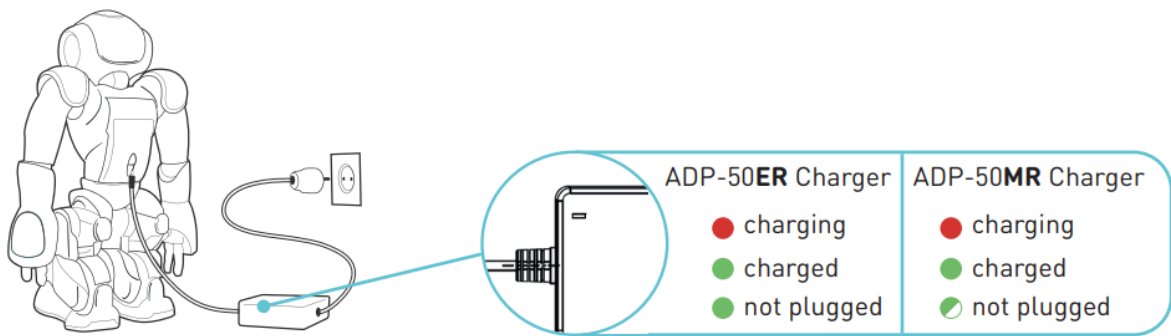
	NAO is designed for indoor use only.
	Do not operate NAO if non-condensed humidity is above 80 %.
	Keep NAO away from radiators, open flames and heat sources.
	Do not expose NAO to dust, sand, moisture, or excessive saline atmosphere (e.g. coastal environment).



## Battery

To optimize battery life:

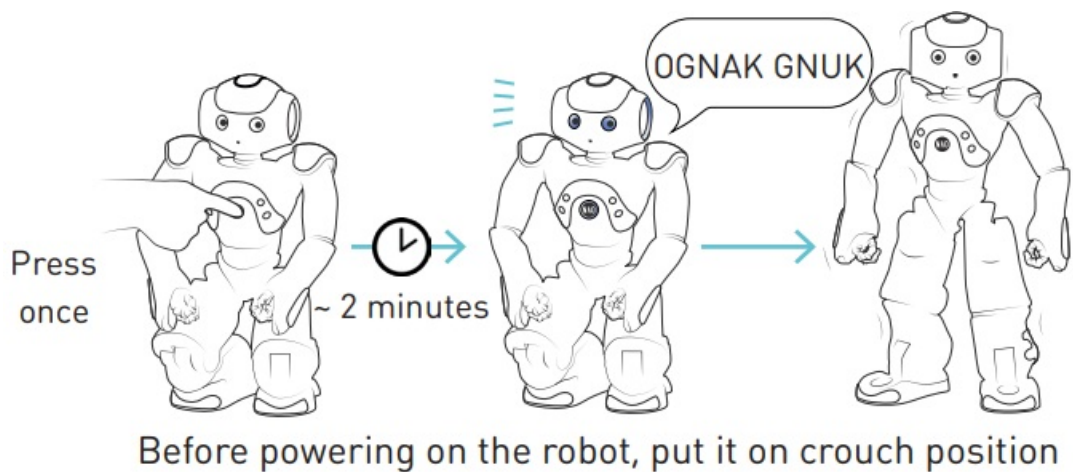
- fully charge it before first use,
- fully charge it once a month, even during long time storage,
- fully charge it immediately after an automatic shut down.



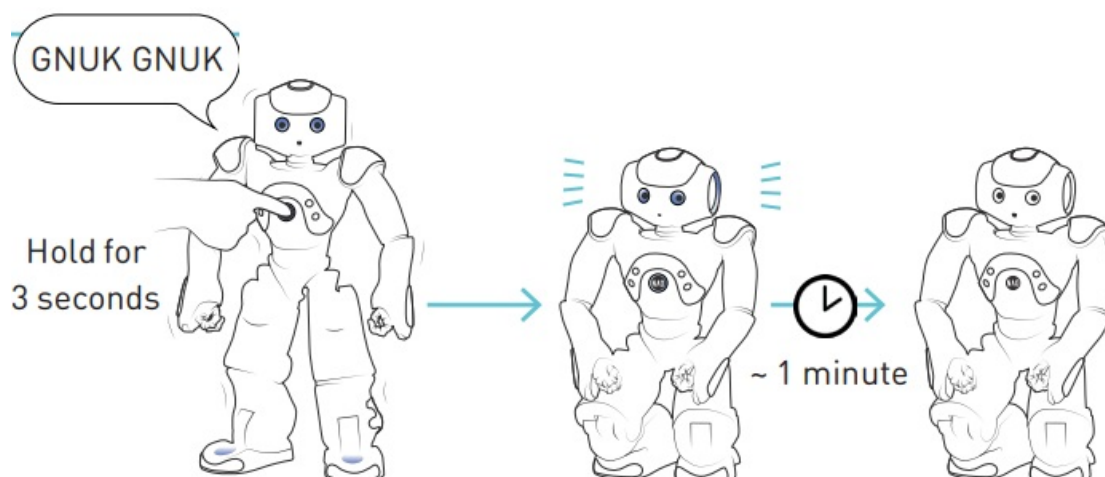
⚠ Follow the recommendations otherwise the battery may become unusable. More informations in the Battery Charger Guide.

## ⚙ ON-OFF

### Turning ON



### Turning OFF



## Forced Turn OFF

Be careful, hold the robot as it will disengage its motors.

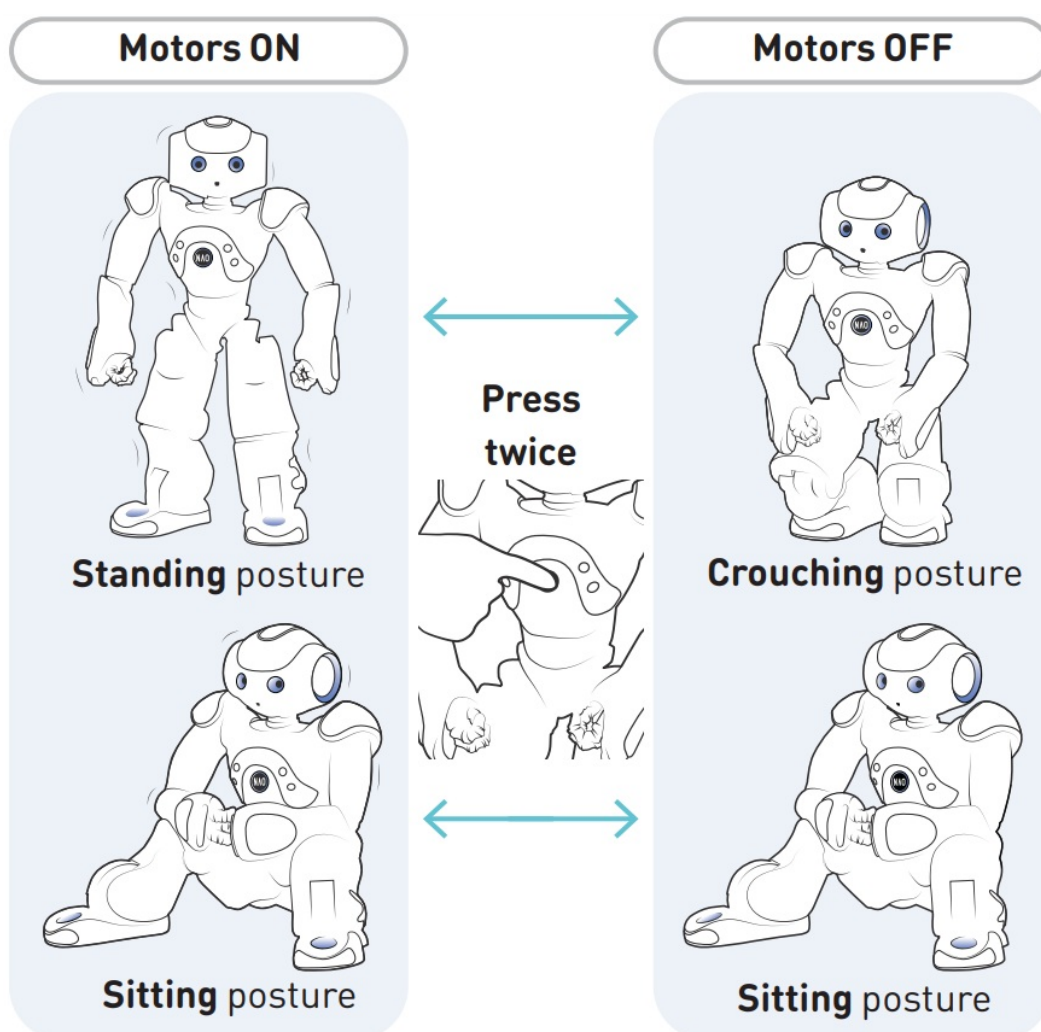
When using this method you might lose your data.




## Motors

Disengage NAO's motors to:

- pick up NAO,
- change its posture,
- cool down the robot's motors.



 Do not force on NAO's arms and legs or push against the motors because it will damage them.



## Precautions

### Cleaning

Make sure NAO is turned OFF and unplugged.

	Use a soft dry cloth or cleaning wipes.
	Do not oil the joints.
	Do not use alcohol or ammonia-based products.
	Do not use water. Do not get NAO wet and never handle the robot with wet hands.



NAO is not a doll.

Do not put any kind of clothing accessory on the robot.

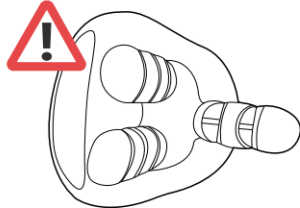
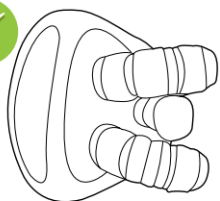
Do not block the sensors and joints.

Do not put makeup or paint on NAO.

Never cover the head, in particular the air vent at the back of the robot's head.

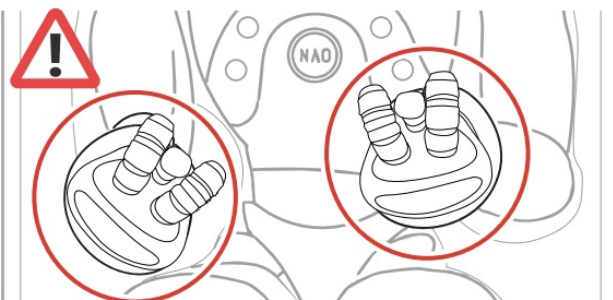
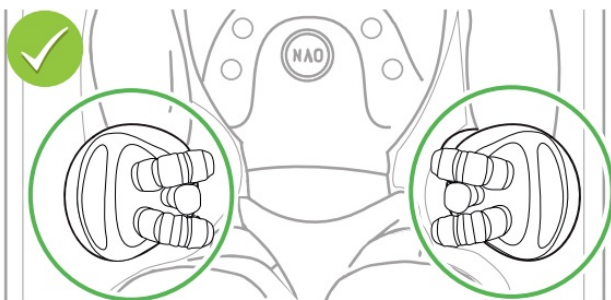
### Handcare

1. When placing NAO in its box, ensure the hands are closed.



When NAO turns OFF, the robot automatically closes its hands.

2. Ensure NAO's hands are lined up with the casing otherwise the top casing will not fit and you might break NAO's fingers.



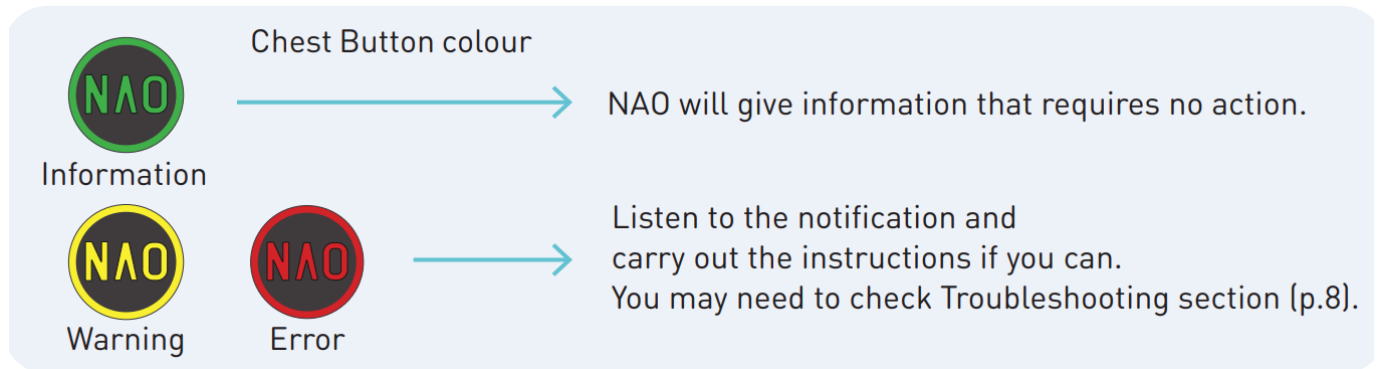
## Notifications



There is a notification if the Chest Button blinks.

A notification is a combined Chest Button LED indication and a spoken message.

Press the Chest Button once to hear the message.



## Safety

**IMPORTANT:** It is strongly recommended that users follow these safety guidelines for their personal safety, not doing so may lead you to void the warranty of NAO or the battery charger.

### General

This User Guide and the accompanying certification leaflet are provided in the box with NAO. They have important and regulatory information.

These documents must be kept with NAO during the entire robot's life.


The guidelines will help you protect the robot, the battery charger and their working environment from damage.

Always follow installation and service instructions closely.

At all times remember that safety to human beings always comes first.

The documentation also covers disposal and recycling information.

These safety instructions do not cover all possible situations that may occur. When in doubt, contact SoftBank Robotics Support: [www.softbankrobotics.com/support](http://www.softbankrobotics.com/support)

 Never attempt to service the robot yourself and/or its power supply (including disassembling and removing the casing). Spare parts are not sold.

Turn off NAO, unplug the battery charger and contact Support in any of the following cases:

- The power cord or the charger is worn.
- The charger has been damaged.
- There is mechanical damage to NAO.
- Liquid has gone inside NAO's casing.
- There is smoke or an unusual smell coming from NAO.
- NAO does not work properly.

### Supervision

NAO is not intended for use by children, or by people with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

- Children under 14 years old must be supervised by a person responsible for the child's safety and who has read and understood these instructions.
- Children 14 years old and over must be given instructions concerning the use of the robot in a safe way and



understand the hazards involved.

In a public environment, the robot must not be within reach of children. Do not leave the robot with children, even when switched off. NAO is heavy. Keep packing material away from children.

### **Fire Hazard**

NAO contains some electrical and internal units which can be hot during normal use.

To avoid risk of fire, take the following precautions:

- The user is responsible for having an electrical installation that complies with local standards.
- Use only the power cord supplied by SoftBank Robotics with NAO. Do not use the battery charger and/or power cable if they show signs of damage or excessive wear.

Do not use the power cord with other products.

- Do not insert anything in NAO's casing.
- Take care not to spill any liquid on NAO. If in doubt, do not use. Make sure all components are thoroughly dry before using NAO again.
- Do not attempt to dry the robot with an external heat source such as a hair dryer or an oven.
- Do not use aerosol products that contain flammable gases around NAO.

Do not operate NAO in an explosive atmosphere.

- NAO's operating temperature must be between 5 °C and 35 °C (41 °F to 95 °F).

Do not use the battery charger if room temperature is above 40 °C (104 °F).

### **Mechanical Hazard**

NAO has moving parts that could cause pinching and potentially serious injuries.

Take the following precautions when working close to NAO:

- In normal situations, avoid carrying and touching the robot when it is moving, walking or getting up.
- Do not place your hands on any of the robot's joints.

### **Environmental Hazard**

NAO and its lithium battery have been designed, manufactured and quality-controlled according to international environmental regulations.

Please do not dispose of your product in everyday waste.

In order to protect human health and the environment, we recommend handing over your waste equipment to a designated collection point.



For more information, please contact your waste disposal service.

### **Using NAO Near Medical Devices**

#### **IMPORTANT NOTICE FOR USE IN HEALTHCARE ENVIRONMENTS:**

SoftBank Robotics products are not medical devices and are not listed under UL or IEC 60601 (or equivalent).

Radio-frequency waves from electronic equipment can negatively affect the operation of other electronic equipment, causing them to malfunction.

The device is designed, tested, and manufactured to comply with regulations governing radio frequency transmission in countries such as the United States, Canada, the European Union, and Japan.

Therefore, please take the following precautions:

**Pacemakers:**

The Health Industry Manufacturers Association recommends keeping a minimum distance of 15 cm (6 inches) between wireless devices and pacemakers to avoid interference with the pacemaker.

Pacemaker users should therefore not carry the robot close to their chest.

If there is any reason to suspect interference, turn the robot off immediately.

**Other Medical Devices:**

Users of any other personal medical devices should consult the device manufacturer or physician to determine if there are other constraints.

**Battery Charger and Battery**

Please read The Battery Charger User Manual that comes with the battery charger. It contains important safety instructions.

Use only the batteries designed for NAO and supplied by Softbank Robotics. The use of any other battery than those mentioned above may cause a risk of explosion.

Do not use the battery charger if exposed to rain, liquids, or excessive moisture.

Never disassemble Lithium-Ion batteries.

If the Lithium-Ion battery is damaged or leaking, contact SoftBank Robotics Support.

**Button Cell**

This product contains a button cell used to power the real-time clock and retain the product settings.

It is designed to last as long as the product. Servicing or replacing the button cell should only be performed by a qualified service technician.

**Troubleshooting****Contacting Support**

If you have an issue with your robot, check the following points before contacting Support:

- Is the battery charged?
- Have you carried out the Initial Setup?
- Are there any notifications pending?
- Have you tried to turn NAO OFF

**Forced Turn OFF**

Be careful, hold the robot as it will disengage its motors.

When using this method you might lose your data.

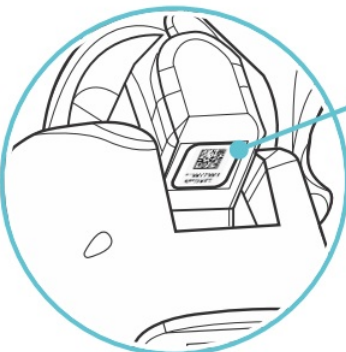
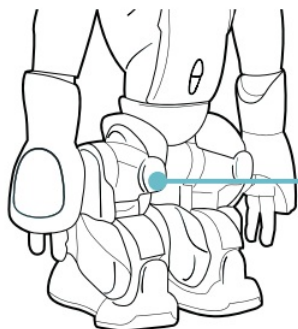


(or perform a forced turn OFF) and turn it ON again?

If NAO still doesn't work, contact SoftBank Robotics Support via the online form at:



You will need your Serial Number



P00000XX00X  
XXXX00001



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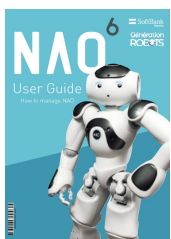
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D0000026 A07 Rev8

## Documents / Resources



[Generation ROBOTS NAO 6 Programmable Humanoid Robot](#) [pdf] User Guide  
D0000026 A07 Rev8, NAO 6 Programmable Humanoid Robot, NAO 6, Programmable Humanoid Robot, Humanoid Robot, Robot

## References

- [🌀 Robotic arm, mobile robot, autonomous robots, ROS robot](#)

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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