

# ***ROBOTCREATOR* Dx**

VER.2 UPGRADE

## **Product User Manual**

Please read this manual carefully prior to use and keep it for future reference.

Model: AIR-H204



## Thank you for choosing Robot Creator DX!

Robot Creator DX is a fun-filled DIY robot kit.

Using Kebbi Air as a foundation, Robot Creator DX is a passion project designed for robot enthusiasts that doesn't require any prior knowledge of programming languages. Simply pick up a screwdriver to build a smart robot that can talk, walk, and do much more!

The goal of our team is to create the world's best robots. Nuwa Robotics is one of the few AI robotics companies in the market that has the ability to independently design and develop hardware, software, AI, and content. We envision a world filled with people who love robots as much as we do, so that we can work together and create more interesting and unique robots. Join us at Robot Creator DX, where you'll find a community full of fantasy and creativity. Show us your unique creation!

NUWA Team, 2022

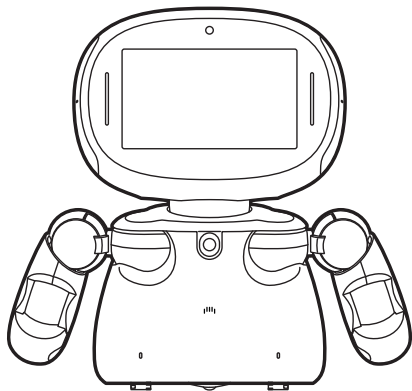
## Q Robot Creator Support

Painting ◦ Assembling ◦ Customize your Robot  
Using Biztools ◦ Create your Contents ◦ MakerBase

### Search “Robot Creator Support”, Start to Assemble

Search for "**robot creator support**" in the browser to start building your own robot. We recommend that you use a larger screen (e.g. laptop, tablet) to read it for the best experience.

# Product Introduction



Robot Creator

1. Please cross-check with the list of parts to ensure all parts are present. For any missing parts, please contact customer service.
2. The charger in the accessory package is an OEM charger. Please avoid using any other brand of charging cables in order to keep the robot working properly.
3. Please read this User Manual thoroughly to ensure correct and safe use of this product.
4. Regularly check the charging cable, connector, and outer casing for damage. If damage is found, do not use until repaired.

## Related links



Nuwa Support /  
Guidebook



Robot Creator  
website



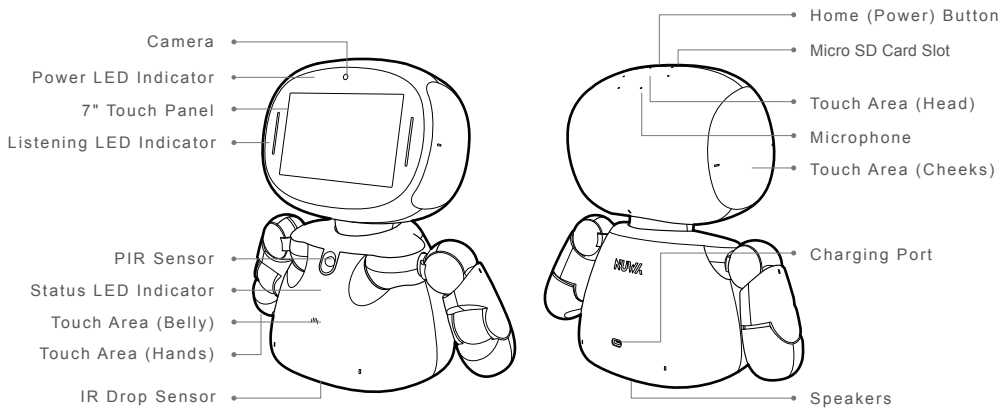
Nuwa Biztools





NuwaSpace


# Product Description

## Product Introduction



 Home Screen / Power Button    Return to Home Screen, Turn On / Off (Please refer to P.10 for more details)

 Touch Area    There are 5 Touch Sensing Areas: Head, left and right Cheeks. Belly, and left and right Hands. Please remember to touch Kebbi gently.

 PIR Sensor    PIR Sensor: Senses whether there is anyone passing in front of Kebbi.

 USB Type C Charging Port    Please use with the original OEM charger.

# Start building your robot

## Redesign your robot

Use your imagination to redesign your robot with panel lines, spray paint, ink lines, and 3D-printed accessories.

**Attention: Please carefully review our website instructions for redesigning techniques and special notices.**

## DIY assembly

Please visit our official website for online instructions and assemble according to step-by-step instructions.

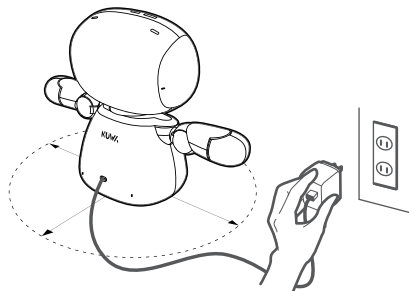


**Before assembly, first confirm that all parts are present**

## Using Kebbi for the First Time

Be sure there is enough space for your robot to safely move around.

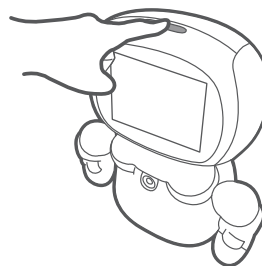
Connect the charger and turn the power on.



### First:

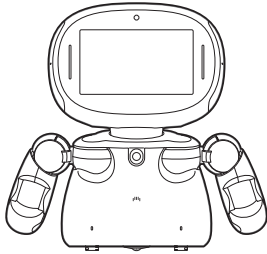
Prepare a safe place for Kebbi and connect the charger.

Hold for three seconds.



### Second:

Press and hold the power button until the screen turns on.

**Third:**

Please follow the robot's instructions to complete the initial setup.

**Fourth:**

Sign up on Nuwa BizTools for create your own robot.  
(BizTools are web based tools.)

## How to Activate Nuwa BizTools

- A Nuwa BizTools product key will be sent to the buyer's designated email address or Internal message of e-commerce platform when the product is shipped.
- Open the email and click on the link to visit "Nuwa Account."
- Sign in with the Nuwa account created when initializing the robot.
- Choose "Upgrade to NuwaPro" and enter the product key at "My Tools."
- Upon completion, the development tools will be available to you.

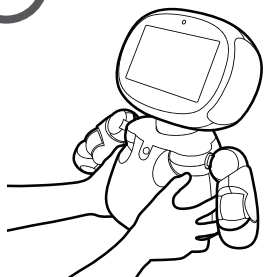
### Sign up on Nuwa BizTools for a wide range of development programs!

\*Please check your trash folder or contact customer service if you haven't received your Nuwa BizTools product key.

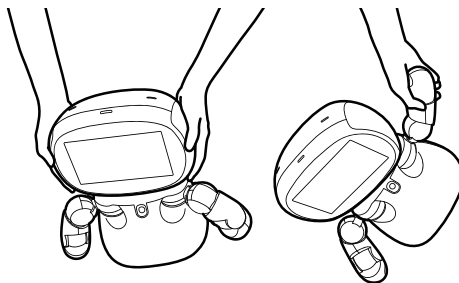
## LED Indicator Information

Indicator	Color	Status	Action / Description
Status Indicator (on the chest)	Blue Steady blue light	System is normal	-
	Orange Steady orange light	Low battery (less than 15%)	Please charge the robot.
	Red Steady red light	Very low battery (less than 5%)	Please charge the robot.
Charging Indicator (next to the lens)	Red Flashing red light	Charging	No flashing red light means one of two things: 1. The battery is fully charged 2. The battery is too low, please continue charging for 10 minutes Please refer to P.17 for more information
Camera Indicator (next to the lens)	Green Steady green light	Camera in use	Notifies user that camera is in use.

## Safety Instructions



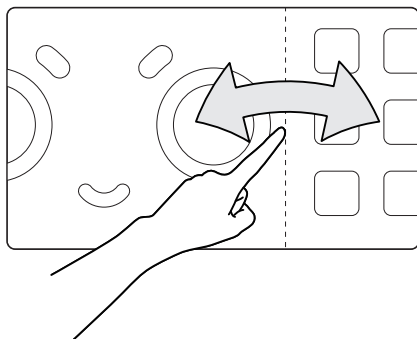
Please hold the robot with both hands



Please do not lift or pull the robot by its head or arms



## Open the Menu



### Pet Screen / Function Menu

You may swipe left and right on the screen to switch between the Pet Screen and the Function Menu.

#### Pet Screen:

This is the start-up default mode. You can have a conversation with the robot on the Pet Screen. Click "Home Button" or swipe to the right from the Function Menu to return to the Pet Screen.

#### Function Menu:

You can browse all the built-in APPs of the robot in the Function Menu, including Singing and Dancing and Creative Learning. You can also explore the various functions of the robot and delete / manage them.

### Notification Panel

Slide down from the top edge of the screen to open the Notification Panel. There are three main areas: Function Shortcut, Screen Brightness / Volume Control, and Notification Area.

#### ① Function Shortcut:

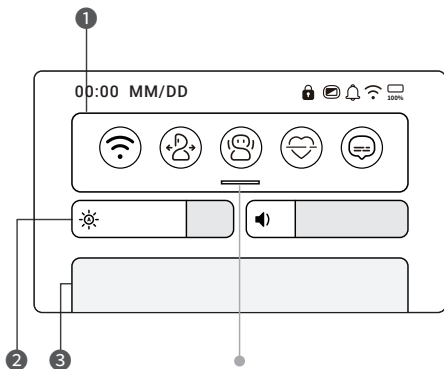
Shortcuts in this area enable you to quickly set up your robot. You may click the editing button on the bottom to change the sequence or to display or cancel the shortcuts.

#### ② Screen Brightness / Volume Control:

Drag the control bar to adjust the screen brightness or volume.

#### ③ Notification Area:













Display the system status, system notification, or messages from different applications of the robot.



Scroll down to see more functions.

# Common control instructions

You can adjust the following robot functions in the shortcut area of "Notification Panel" or "Settings" according to the situation:

	<b>WiFi</b>		<b>Active dialogue</b>
	Please connect to WiFi or mobile hotspot to allow you to enjoy a complete robot experience.		You may turn off the recognition function to avoid the robot seeing you. This is the function that enables the robot to actively talk to you.
	<b>Bluetooth</b>		<b>Subtitle</b>
	Bluetooth devices can be connected according to the instructions of some value-added services.		Captions can be turned off.
	<b>Image delivery</b>		<b>LED Control</b>
	Images from the robot can be dropped on other devices (supported but not guaranteed to be compatible with all devices).		LED lights can be turned off on the robot.
	<b>Action</b>		<b>Eye Protection Mode</b>
	In the OFF position, the Action Lock will turn off the motors controlling the robot's head and arms.		The eye protection mode of the robot screen can be turned on to reduce the damage of blue light to the eyes (the screen color will be yellow).
	<b>Movement</b>		<b>Notification</b>
	In the OFF position, the Motion Lock will turn off the motor on the bottom of the robot, preventing the robot from moving. The robot's arms and head will still move.		When this control is turned on, notifications from NUWA will be sent to the user.
	<b>Audio recognition</b>		<b>Edit</b>
	In the ON position, when the robot is in Sleep Mode (Standby) mode, the robot will turn in the direction of wherever the waking words come (this function does not work when the Movement is turned off).		With the last button in the Shortcut Area, you can edit the contents and order of the buttons.

# Home Button (The function of this button may be modified due to specific needs)

Action	Effects
Quick Press	Press the Home Button on the Pet Screen quickly to turn off the screen and have Kebbi enter Sleep Mode.
	Press the Home Button in any application to return to the Home Page (Pet Screen).
Press and Hold	Press and Hold the Home Button for three seconds to access the following power options: Do-Not-Disturb Mode, Restart, or Power Off.
	When the robot is shut down, press and hold the Power Button on Kebbi's head for three seconds to turn on the system.

## On/Off Instructions

### Turning On the System

1. Press and Hold the Home Button for three seconds to activate the system and display the startup screen.
2. When the Pet Screen appears, the robot has been successfully activated.

### Restart

1. Under the System Startup Menu, press and hold the Home Button for three seconds to access the power options (as shown in picture on the right).
2. Select "Restart" and all the Apps in Kebbi will restart automatically.



Power Options

### Turning Off the System

1. Under System Startup, press and hold the Home Button for three seconds to access the power options.
2. Select "Turn Off".

## Update Instructions

1. The robot will automatically check for updates while connected to the internet and will prompt you when a new update is available.
2. You can also enter "Settings" and select, "Check Update Manually" to manually check for any newly released updates.

**We will continue to optimize the functions and content of the robot, so we strongly recommend staying up-to-date with the latest system upgrades.**

### Robot Connection Name

The robot connection name appears when you are connecting to the robot using the mobile APP or related webpage. The default name is: The robot's product name + last three digits of the serial number. You may edit the Robot Connection Name in "Settings" → "About Robot" → "Robot's Name" so that you will recognize your robot faster in the future.

\* Editing this name will not cause any change on the awakening words or the name the robot uses to refer to you.

# Introduction to Power Modes



**Sleep Mode (Standby)** - When the robot is in Sleep Mode, the screen is off. Kebbi will still respond when called.

## Enter Sleep Mode:

- Press the Home Button on the Pet Screen to enter Sleep Mode and the robot will fall asleep.
- The robot will automatically enter Sleep Mode after 5 minutes in Standby Mode.

## End Sleep Mode:

- Press the Home Button once to end the Sleep Mode and open the Pet Screen.
- Say, "Hello Kebbi" to wake the robot, ending Sleep Mode.



**Do-Not-Disturb Mode** - When the robot is in Do-Not-Disturb Mode, speaking to Kebbi will not awaken it. The only way to wake the robot from this mode is by pressing the Home Button.

## Enter Do-Not-Disturb Mode:

- Press and hold the Home Screen button for 3 seconds → Click "Do-Not-Disturb Mode" under Power Options.

## End Do-Not-Disturb Mode:

- Press the Home Button to open the Pet Screen.



**Motion Lock** - The Motion Lock will turn off the motor on the bottom of the robot, preventing the robot from moving.

## Turning the Motion Lock On/Off:

- When the robot is awake, you can set the motion options to: On (Unlocked) or Off (Locked).
- From the Notification Panel → Click the "Motion" button. When the button is green, motion is unlocked, and the robot can move. When the button is white, motion is locked.
- \*When the robot is plugged in and charging, the system will automatically lock the motion setting to prevent the robot from moving and pulling its power cord. Do not attempt to unlock the motion setting while your robot is charging. Once the robot is unplugged, motion will automatically be unlocked.



**Action Lock** - The Action Lock will turn off the motor controlling the robot's head and arms. The indicator lights on the robot's face and arms will turn dark blue when in this mode.

## Turning the Action Lock On/Off:

- When the robot is awakened, you can set the Action options of the robot to: On (Unlock Action) or Off (Lock Action)
- From the Notification Panel → Click the "Action" button. When the button is green, Action is unlocked and the robot's face and arms can move. When the button is white, Action is locked and the face and arms will not move.

# Start a Conversation with the Robot

## Step 1 | Wake the Robot

If you want to give commands to your robot, you need to get its attention first. Use one of the following methods to wake your robot:

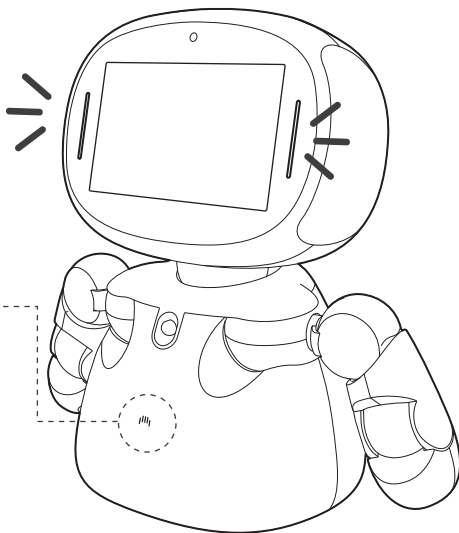
### Method A - Vocal Awakening

Say, "Hello Kebbi" while standing 1-3 meters away and the robot will reply, "Hi".

### Method B - Touch Awakening

Gently touch the symbol on the robot's belly 「|||」 to awaken it and it will reply, "Yes".

Note: If your surroundings are too noisy, the robot's listening might be affected. In general, children over 7 years old are better able to use Vocal Awakening. Younger children should wake the robot with Touch Awakening.



## Step 2 | Speak the commands when the yellow light is on.

When the robot's face and chest light up yellow, you may speak your commands in detail. For example: "Open the Function Menu", "How is the weather in Taipei?", "I want to watch the Kebbi theme song". For detailed instructions, please refer to the "Key Commands" in the appendix or use the online customer service platform.

## Precautions

- ⚠ To reduce the risk of personal injury and/or property damage, please read all safety information and operating instructions before using the robot.
- ⚠ To reduce the risk of personal injury and/or property damage, please do not disassemble the outer case of the robot.

## Restrictions

- Children should use the robot only under adult supervision.
- Clear the area surrounding the robot during use, as any barrier might affect the robot's movement.
- In order to move the robot, lift the body of the robot with both hands.
- When using the movement function, please place the robot on a flat floor or surface to prevent it from falling down and getting damaged.
- While operating the robot, do not attempt to move its joints. Doing so could result in injury to you or damage to the robot.
- Do not subject this product to mechanical shock (i.e. do not drop the robot)
- Do not leave the product or the battery where it will be exposed to a heat source, fire, or temperatures over 40°C/104°F.
- Do not immerse the product in water or any liquid to prevent short circuiting.
- Please use the original OEM charger. Do not use any other brand charger.
- When using the charger, be sure your hands are dry and hold the plug of the power cord to unplug it. Do not pull the cord. If the cable is broken or the outer plastic sheath is stripped off, stop using the charger immediately.
- Please wipe the robot with a soft cloth moistened with diluted alcohol. Do not use water or detergents with strong acids or bases to rinse or clean the robot, as these might damage the coating of the device.
- Do not attempt to replace the battery. If you need to change the battery, please send the product to the original equipment manufacturer.
- If you need to leave the robot for a long time, please turn off the main power at the top of the head. Store the product in a cool, dry place. To prevent the battery from being overdischarged, please charge it at least once every three months.
- As common practice with any computer, tablet, or other screen usage, it is recommended that children take a 10-minute break after every 30 minutes of use and that daily use not exceed one hour per day. Excessive screen time may result in damage to the eyes. This product is not intended for use with children under 2 years of age.
- This product is suitable to be used safely in tropical climate areas.

# Specification

Part	Spec	Part	Spec
Dimension	318 x 307 x 166 mm	Bluetooth	Bluetooth 4.2
Weight	2.56 kg		
OS	Android 9	Speaker	4Ω 3W
CPU	Qualcomm Octa-core	Light	RGB LED *5
RAM	LPDDR3 3GB	Wifi	802.11 a/b/g/n/ac
Storage	eMMC 32GB	Ports	USB type C port Micro SD slot
SD card	Max support 128 GB Micro SD		
Sensor	PIR sensor / Touch sensor / Drop sensor	voltage	3.7V
Language	Chinese / English, voice recognition distance about 3 meters	Battery	9100 mAh
Servomotor	12*servo motors	Adapter	Input:AC100-240V 50/60Hz 0.5A Output:DC5V-3A/DC9V-2A Rated power:18W
Camera	500 million pixels		
Panel	7 inch LCD , Capacitive Multi-touch	OperatingTEMP.	0°C~40°C
Mic	6*Mics	ChargingTEMP.	0°C~40°C

## SD Memory Card

You will gain more storage space by using the "Storage Expansion with SD Card" function on the robot. Kebbi supports one MicroSD Card to expand the internal storage.

Supported SD Card Formats: SD,SD(HC), SD(XC) Class 10, 128G SD(HC), SD(XC) USH1(U1, Class10) 128G

Expand the storage by following these steps:

1. Prepare a blank MicroSD Card.
2. Insert the card into the card slot on the robot's head.
3. Enter "Storage Space" from the left menu and click "Format as Internal Storage" under the title of MicroSD Card.
4. Complete the transfer according to the guides on the screen.

**⚠ Removing the MicroSD Card is not encouraged, as the expanded internal storage might save important system data.**

# Hazardous Substances in the Product

Name	Plastics Parts	Sheet Metal Parts	Rubber Tires	Servomotor
Lead(Pb)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mercury(Hg)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cadmium(Cd)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hexavalent Chromium(Cr(VI))	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Polybrominated Biphenyls(PBB)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Polybrominated diphenyl ethers(PBDE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Name	Control Panel	Lithium Polymer	Screen	Power Charger
Lead(Pb)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mercury(Hg)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cadmium(Cd)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hexavalent Chromium(Cr(VI))	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Polybrominated Biphenyls(PBB)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Polybrominated diphenyl ethers(PBDE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

☐ Hazardous substances in all the materials of that particular part are below the minimum restriction that is regulated by RoHS 2.0.
   
☒ Hazardous substances in at least one material of that particular part is over the minimum restriction that is regulated by RoHS 2.0.

**This product complies with the Administrative Regulations on Low Power Radio Waves Radiated Devices**



## **Federal Communication Commission Interference Statement**

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

### **IMPORTANT NOTE:**

#### **Radiation Exposure Statement:**

This 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 & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Country Code selection feature to be disabled for products marketed to the US/CANADA. Operation of this device is restricted to indoor use only.

# Troubleshooting

Problems	Things to Confirm	Solution
Nothing happens when you press and hold the power button. The robot does not turn on.	Is the battery low?	Charge the robot with its original OEM charger.
The power indicator light does not flash when the robot is being charged.	<ol style="list-style-type: none"> <li>1. Is the battery fully charged?</li> <li>2. Is the charger properly plugged into the outlet?</li> <li>3. Are you using the original OEM charger?</li> </ol>	<ol style="list-style-type: none"> <li>1. The indicator light will stop flashing when the battery is fully charged. You may use the robot.</li> <li>2. Unplug the power cord and plug it back into the outlet.</li> <li>3. Not using the proper charger / cable may result in charging failure. Please contact us if you need a replacement.</li> </ol>
WiFi connection failed or is not connecting.	Open the drop-down menu to confirm that the WiFi router is connected.	Select the WiFi router you wish to connect to and enter the required password to establish connection.
The Nuwa CodeLab function is unavailable.	<ol style="list-style-type: none"> <li>1. Have you downloaded the Nuwa CodeLab APP to your phone?</li> <li>2. Has the phone searched and selected the robot?</li> <li>3. Did you click, "Start" on the APP?</li> </ol>	<ol style="list-style-type: none"> <li>1. Download the APP by referring to the link on the official website.</li> <li>2. Follow the directions in the User Guide to select the robot to be connected.</li> <li>3. Click, "Start" on the APP.</li> </ol>
The robot is not functioning at all.	None of the robot operations are working and/or the robot will not restart.	Press and hold the power button for 10 seconds to force restart.



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The contents of this User Manual apply to Robot Creator DX

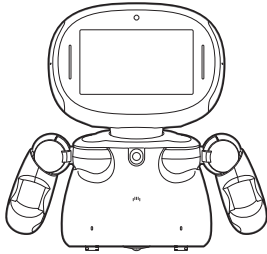
Designed by NUWA ROBOTICS (HK) LIMITED (TAIWAN BRANCH)

Address : 3F., No. 102, Dunhua N. Rd., Songshan Dist., Taipei, Taiwan

Website : [www.nuwarobotics.com](http://www.nuwarobotics.com)

E-mail : [service@nuwarobotics.com](mailto:service@nuwarobotics.com)

**NUWA** NUWA  
ROBOTICS

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- Choose "Upgrade to NuwaPro" and enter the product key at "My Tools."
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