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> Toylefun Defender Smart RC Robot Instruction Manual

toylefun BG1531

Toylefun Defender Smart RC Robot Instruction Manual

Model: BG1531 | Brand: Toylefun

1. INTRODUCTION

The Toylefun Defender Smart RC Robot is an advanced remote-controlled robot designed for interactive play and educational development. It features hand gesture sensing, programmable actions, spray function, bullet firing, and various entertainment modes including walking, dancing, and singing. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your robot to ensure optimal performance and enjoyment.



Image: The Defender Smart RC Robot in its full form, with the remote control held by hands in the foreground.

2. WHAT'S IN THE BOX

Carefully unpack all components and verify that all items listed below are present and in good condition.

WHAT'S IN THE BOX



Image: A visual representation of all items included in the product packaging, laid out neatly.

- Defender Smart RC Robot (1)
- 2.4GHz Remote Control (1)
- Gun Attachment (1)
- Shield Attachment (1)
- Soft Bullets (6)
- USB Charging Cable (1)
- Water Injector (1)
- Screwdriver (1)
- Instruction Manual (1)

3. SETUP

3.1 Battery Installation and Charging

The robot requires a Lithium Ion battery (included), and the remote control requires 2 AAA 1.5V batteries (not included).



Image: Detailed view of the robot's USB charging port and the bullet firing mechanism.

1. **Robot Battery:** The robot's Lithium Ion battery is pre-installed. To charge, connect the provided USB charging cable to the robot's charging port (typically located on the back or chest) and to a USB power source (e.g., computer, power bank, USB wall adapter). The LED indicator will show charging status.
2. **Remote Control Batteries:** Use the included screwdriver to open the battery compartment on the back of the remote control. Insert 2 AAA 1.5V batteries, ensuring correct polarity (+/-). Close the compartment securely.

3.2 Water Refill for Spray Function

The robot features a spray function that requires water. Use distilled water for best results to prevent mineral buildup.



Image: A close-up showing how to add water to the robot's spray reservoir using the provided water injector.

1. Locate the water reservoir cap on the robot (refer to the diagram in the manual if unsure).
2. Open the cap and use the provided water injector to carefully fill the reservoir with clean water. Do not overfill.
3. Close the cap securely to prevent leaks.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **To Power On Robot:** Press the power button located on the robot's chest or back. You will hear a startup sound.
- **To Power On Remote Control:** Press the power button on the remote control. The indicator light will illuminate.
- **To Power Off:** Press and hold the power button on both the robot and the remote control until they shut down.

4.2 Remote Control Operation

The 2.4GHz remote control allows for precise command of the robot's movements and functions.

PROGRAMMING

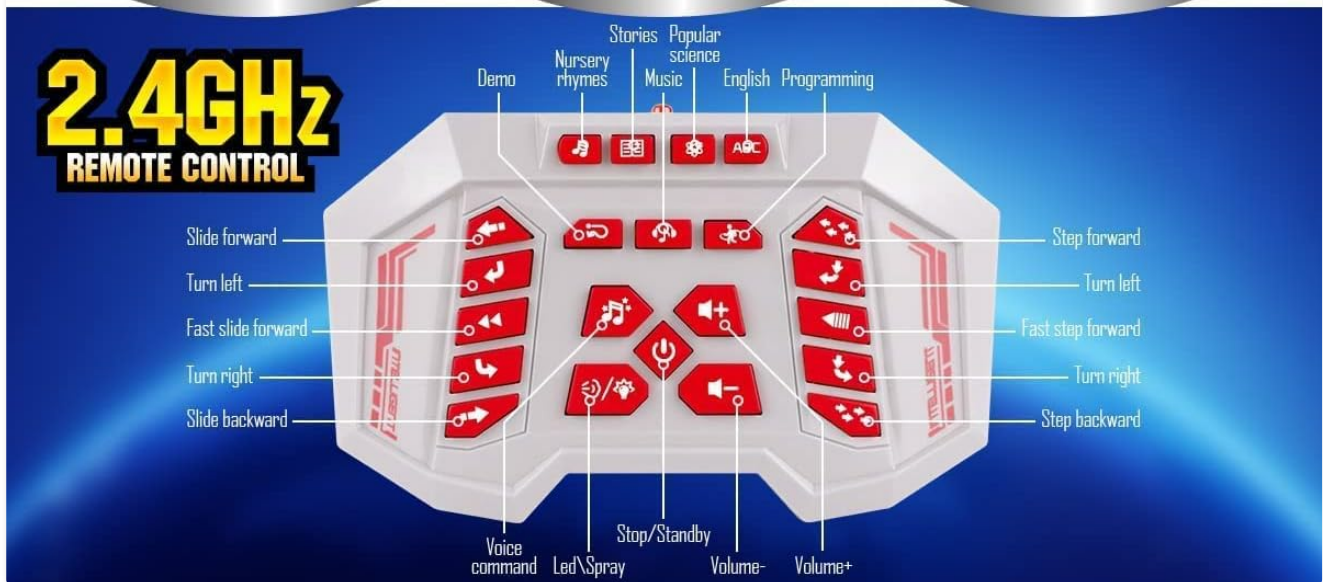


Image: A clear diagram of the remote control, highlighting various buttons and their corresponding functions.

Button/Function	Description
Forward/Backward	Moves the robot forward or backward.
Turn Left/Right	Rotates the robot left or right.
Slide Forward/Backward	Enables sliding movement.
Step Forward/Backward	Performs stepping movement.
Demo Mode	Activates a pre-programmed demonstration sequence.
Music/Songs	Plays various musical tunes.
Stories/Popular Science	Recites stories or educational facts.
Volume Up/Down	Adjusts the robot's sound volume.

Button/Function	Description
Spray Function	Activates the water spray.
Fire Bullet	Launches a soft bullet from the gun attachment.
Programming	Enters programming mode to record custom action sequences.

4.3 Gesture Sensing Control

The robot can respond to hand gestures for basic movements.



Image: A hand positioned to demonstrate gesture control, with arrows indicating corresponding robot movements (forward, backward, turn left, turn right).

- **Forward:** Wave your hand forward in front of the robot's chest sensor.
- **Backward:** Wave your hand backward.
- **Turn Left:** Wave your hand to the left.
- **Turn Right:** Wave your hand to the right.

4.4 Programming Actions

You can program a sequence of up to 50 actions for the robot to perform automatically.

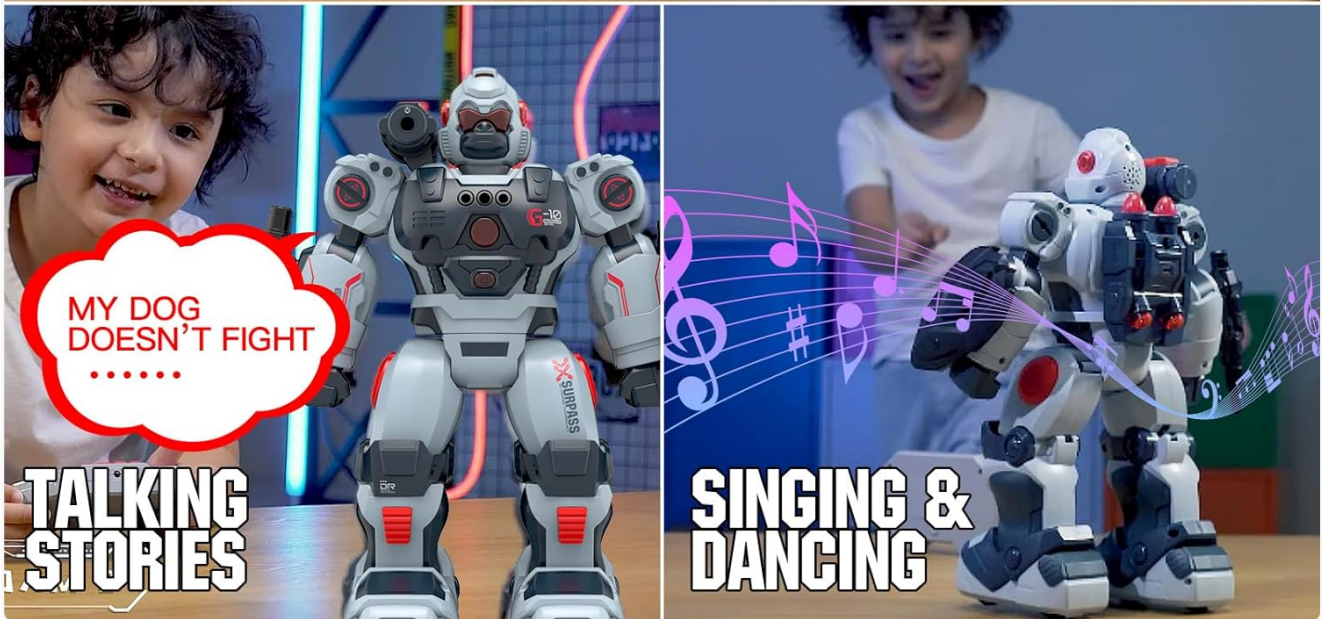
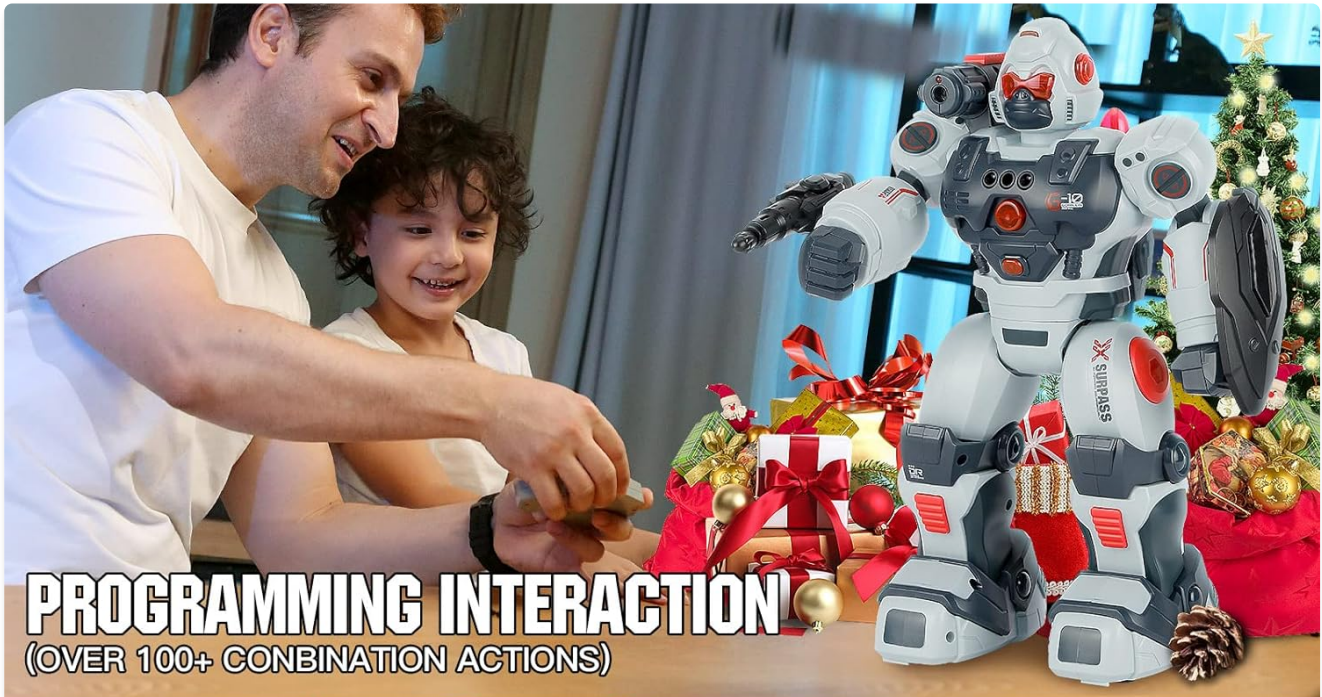


Image: A child and adult interacting with the robot, demonstrating programming, talking stories, and singing/dancing modes.

1. Press the 'Programming' button on the remote control to enter programming mode. The robot will indicate it's ready.
2. Input your desired sequence of actions using the remote control buttons (e.g., move forward, turn left, spray, etc.). Each action will be recorded.
3. Once you have entered all desired actions, press the 'Programming' button again to save and execute the sequence. The robot will perform the recorded actions.

4.5 Spray Function

To activate the robot's mist spray function:



Image: A close-up of the robot's head, showing its LED eyes glowing red, indicating activation or a specific mode.

- Ensure the water reservoir is filled (refer to Section 3.2).
- Press the 'Spray Function' button on the remote control. The robot will emit a fine mist.

4.6 Firing Bullets

The robot can fire soft bullets from its gun attachment.



Image: A hand pressing a button on the robot's gun attachment, showing a soft bullet being launched with a blue trail.

- Load the soft bullets into the gun attachment.
- Press the 'Fire Bullet' button on the remote control to launch a bullet.
- **Safety Note:** Do not aim at eyes or face. Use only the provided soft bullets.

4.7 Walking, Dancing, and Singing Modes

The robot can perform various entertainment functions.



Image: The robot shown in two different movement states: a static walking pose and a blurred image indicating sliding motion.

- **Walking Mode:** Use the directional buttons on the remote control to make the robot walk.
- **Slide Mode:** Use the slide buttons on the remote control for smooth gliding movements.
- **Dancing & Singing:** Press the 'Music' or 'Songs' button on the remote control to activate dancing and singing sequences. The robot will move and play pre-recorded tunes.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your robot.

- **Cleaning:** Wipe the robot and remote control with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners. Avoid getting water into electronic components.
- **Storage:** When not in use for extended periods, power off the robot and remote control. Store them in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Remove batteries from the remote control if not used for a long time to prevent leakage. Ensure the robot's battery is charged periodically if stored for extended periods to maintain battery health.
- **Water Reservoir:** Empty the water reservoir if the robot will not be used for a long time to prevent stagnant water issues.

6. TROUBLESHOOTING

If you encounter issues with your robot, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Robot does not turn on.	Low battery; Power button not pressed.	Charge the robot's battery; Ensure power button is pressed firmly.
Remote control not working.	Batteries low/incorrectly installed; Not paired with robot.	Replace/reinstall batteries; Ensure both robot and remote are powered on and within range.
Robot not responding to commands.	Interference; Out of range; Low battery.	Move closer to the robot; Ensure no strong interference sources nearby; Charge robot/remote batteries.
Spray function not working.	Water reservoir empty; Nozzle clogged.	Refill water reservoir; Gently clean the spray nozzle.
Bullets not firing.	Bullets not loaded correctly; Mechanism jammed.	Ensure bullets are fully inserted; Check for obstructions in the firing mechanism.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	9.2 x 4.3 x 12.6 inches

Feature	Detail
Item Weight	1.76 pounds
Model Number	BG1531
Recommended Age	3 years and up
Robot Battery	1 Lithium Ion battery (included)
Remote Control Battery	2 AAA 1.5V batteries (not included)
Control Frequency	2.4GHz
Material	ABS Safe Material

8. WARRANTY AND SUPPORT

The Toylefun Defender Smart RC Robot comes with a **3-year warranty** from the date of purchase, covering manufacturing defects. This warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.



Image: A child happily receiving the robot in its packaging, with a prominent '3 Years Guarantee' emblem. For warranty claims, technical support, or any inquiries regarding your product, please contact Toylefun customer service through the retailer where the product was purchased or visit the official Toylefun website for contact information.