

Unitree Go2 Robot Dog Quadruped Robotics Instruction Manual

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Unitree Go2 Robot Dog Quadruped Robotics

Product Information

The Unitree Go2 is a new creature of embodied AI that offers an infinite revolution in robotics. It comes with various upgrades and features to enhance its performance and functionality.

- **Standard Ultra-wide 4D LIDAR:** The Go2 is equipped with an ultra-wide 4D LIDAR that upgrades the recognition system by 200%. It provides ultra-wide scanning with a range of 20m and can detect blind spots as close as 0.05m. However, radar accuracy decreases at close range detection.
- **Tracking Module:** The robot can be controlled remotely or automatically tracked. It also features an intercom microphone for effective communication with no scenario restrictions.
- **Front Camera and Lamp:** The Go2 has a front camera that allows for visual monitoring, and a front lamp that brightly lights the way ahead.
- **Self-retracting Strap:** It has a self-retracting strap that makes it easy to carry and load things.
- **Powerful Core:** The Go2 comes with hardware upgrades and a smart battery. It has a standard 8000mAh battery, with an optional long-endurance 15000mAh battery. The battery is designed to provide protection against over-temp, overcharge, and short-circuit.
- **Foot Force Sensor:** The robot has a foot force sensor that enables real-time foot perception.
- **4D LiDAR L1:** Equipped with a 4D LiDAR L1, the Go2 can detect, capture, and draw the 3D real world for the user.
- **Speaker for Music Play:** It also features a built-in speaker for music playback.
- **Intelligent Side-follow System 2.0:** By adopting new wireless vector positioning and control technology, the Go2 offers improved positioning accuracy and remote control distance of over 30m. It also has an optimized obstacle avoidance strategy for traversing complex terrain.
- **Graphical Programming:** The Go2 comes with an optimized graphical programming function that allows for easy program design through simple drag, drop, and connection. This makes it easier for programming beginners to start and innovate.

- Hd Picture Quality Real-time and Stable: The Go2's app enables HD image transmission and real-time remote monitoring. It has built-in 4G and eSIM for a more stable connection and remote control.
- OTA Upgrades: With user authorization, the robot can connect to a cloud-based OTA service to upgrade its own programs for continuous improvement.

Product Usage Instructions

To use the Unitree Go2 effectively, please follow these instructions:

1. Charge the robot: Before using the Go2, make sure to charge the battery fully. Connect the charger to the robot's charging port and plug it into a power source. Allow sufficient time for the battery to charge.
2. Power on/off: To power on the Go2, press and hold the power button until the robot turns on. To power off, press and hold the power button again until the robot shuts down.
3. Remote control or automatic tracking: Use the tracking module to control the Go2 remotely or set it to automatic tracking mode for autonomous movement.
4. Intercom communication: Utilize the intercom microphone to communicate effectively with the robot in various scenarios.
5. Front camera and lamp: Use the front camera for visual monitoring and the front lamp to illuminate the path ahead.
6. Carrying and loading: Utilize the self-retracting strap to carry and load things easily onto the robot.
7. Foot perception: The foot force sensor enables real-time foot perception. Make sure the robot's feet are in contact with the ground for accurate readings.
8. Graphical programming: Use the graphical programming function to design programs by dragging, dropping, and connecting different actions and commands.
9. HD image transmission and remote control: Connect the Go2's app to enable HD image transmission and real-time remote monitoring. Ensure a stable network connection for optimum performance.
10. OTA upgrades: Authorize the robot to connect to a cloud-based OTA service for automatic program upgrades. This will help improve the robot's performance and user experience.

Refer to the user manual for more detailed instructions and safety guidelines.

Documents / Resources



[Unitree Go2 Robot Dog Quadruped Robotics](#) [pdf] Instruction Manual
Go2, Go2 Robot Dog Quadruped Robotics, Robot Dog Quadruped Robotics, Dog Quadruped Robotics, Quadruped Robotics, Robotics

References

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