Unitree Go2

New and improved intelligent bionic quadruped robot

Super Recognition System

Max Running Speed

Peak Joint Torque
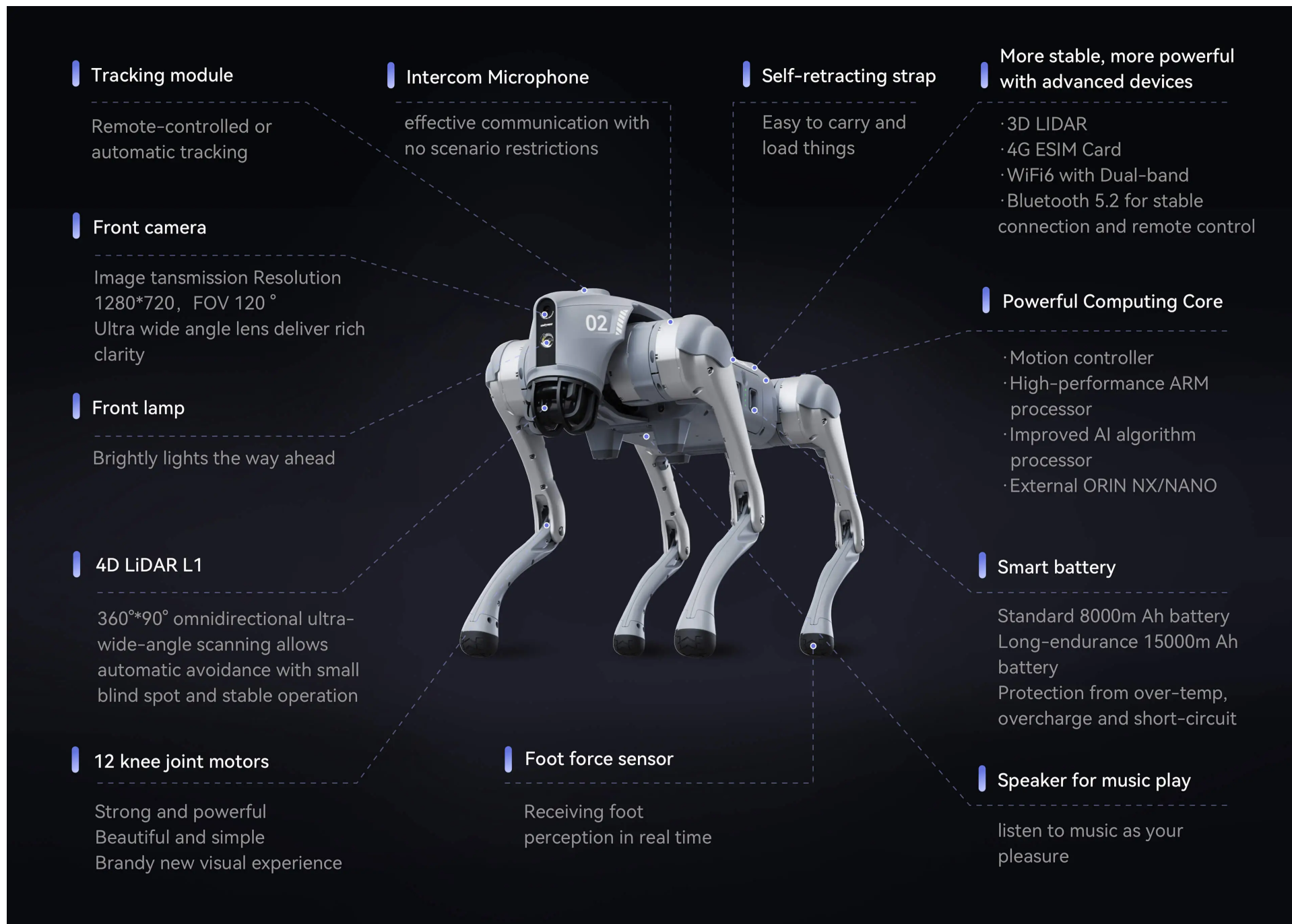
(tested in lab)

Wireless Module

Ultra-long battery Endurance

Intelligent Side-follow System

(Long battery life measured in real life)

Tracking module

Remote-controlled or automatic tracking

Front camera

Image tansmission Resolution 1280*720，FOV 120°
Ultra wide angle lens deliver rich clarity

Front lamp

Brightly lights the way ahead

4D LiDAR L1

360°*90° omnidirectional ultra-wide-angle scanning allows automatic avoidance with small blind spot and stable operation

12 knee joint motors

Strong and powerful
Beautiful and simple
Brandy new visual experience

Intercom Microphone

effective communication with no scenario restrictions

Foot force sensor

Receiving foot perception in real time

Self-retracting strap

Easy to carry and load things

More stable, more powerful with advanced devices

· 3D LIDAR
· 4G ESIM Card
· WiFi6 with Dual-band
· Bluetooth 5.2 for stable connection and remote control

Powerful Computing Core

· Motion controller
· High-performance ARM processor
· Improved AI algorithm processor
· External ORIN NX/NANO

Smart battery

Standard 8000m Ah battery
Long-endurance 15000m Ah battery
Protection from over-temp, overcharge and short-circuit

Speaker for music play

listen to music as your pleasure

Dimension of standing	70x31x40cm	70x31x40cm	70x31x40cm
Dimension of crouching	76x31x20cm	76x31x20cm	76x31x20cm
Weight (with battery)	About 15kg	About 15kg	About 15kg
Material	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic	Aluminium alloy + High strength engineering plastic
Voltage	28V~33.6V	28V~33.6V	28V~33.6V
Working maximum power	About 3000W	About 3000W	About 3000W

Mechanical Specifications

Electron Parameter

Performance Parameters			
Payload	≈7kg MAX ~ 10kg)	≈8kg MAX ~ 10kg)	≈8kg MAX ~ 12kg)
Speed	0 ~ 2.5m/s	0 ~ 3.5m/s	0 ~ 3.7m/s (MAX ~ 5m/s)
Max Climb Drop Height	About 15cm	About 16cm	About 16cm
Max Climb Angle	30°	40°	40°
Basic Computing Power	○	8-core High-performance CPU[4]	8-core High-performance CPU
Max Joint Torque[1]	○	About 45N.m	About 45N.m
Knee Joint Parameters			
Aluminum knee joint motor	12 set	12 set	12 set
Range of Motion	body：-48~48° thigh：-200°~90° shank：-156°~-48°	body：-48~48° thigh：-200°~90° shank：-156°~-48°	body：-48~48° thigh：-200°~90° shank：-156°~-48°
Intra-joint circuit (knee)	●	●	●
Joint Heat Pipe Cooler	●	●	●

Force Sensor Parameters				
Super-wide-angle 3D LIDAR		●	●	●
Wireless Vector Positioning Tracking Module		○	●	●
HD Wide-angle Camera		●	●	●
Foot-end force sensor		○	○	●

Feature List			
Basic Action	●	●	●
Auto-scaling strap	○	●	○
Upgraded Intelligent OTA	●	●	●
RTT 2.0 Pictures Transaction	●	●	●
Graphical programme	●	●	●
Front lamp	●	●	●
WiFI6 with Dual-band	●	●	●
Bluetooth 5.2/4.2/2.1	●	●	●
4G module	○	●	●
Voice Function[5]	○	●	●
ISS 2.0 Intelligent side-follow system	○	●	●
Intelligent detection and avoidance	●	●	●
Charging Pile Compatibility	○	○	●

Accessories				
Secondary development[6]	○	○	●
Manual controller	optional	optional	●
High computing power module	○	○	NVIDIA Jetson Orin (optional) (40-100Topscomputing power)
Smart battery	standard (8000mAh)	standard (8000mAh)	long endurance (15000mAh)
Battery life	About 1-2h	About 1-2h	About 2-4h
Charger	standard (33.6V 3.5A)	standard (33.6V 3.5A)	fast charge (33.6V 9A)
Warranty period[7]	6 months	12 months	12 months
Price（Tax and freight excluded）	$1600	$2800	Contact your sales expert

* Note：   [1] The maximum torque in the table refers to the maximum torque of the largest joint motor; the actual maximum torque varies for the 12 joint motors.

[2] In open environment without interference and blocking.

[3] 3.Transformation and quality varies considerably in different network environments.

[4] 8-core High-performance CPU： Supports a variety of modes, including advanced mode, AI mode, 3D LiDAR mapping, etc.

[5] Voice functions include offline voice interaction, commands, intercom and music play.

[6] For more information, please read the secondary development manual.

[7] For more detailed warranty terms, please read the product warranty brochure.