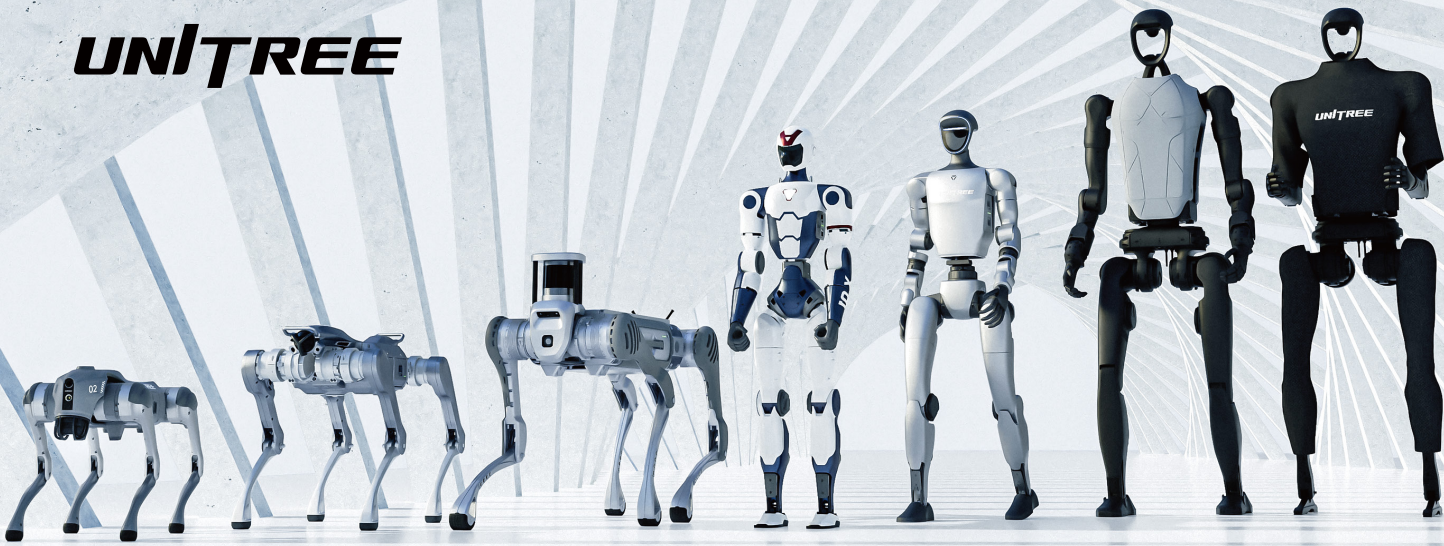


UNITREE



Company Profile:

Unitree Robotics is a world-renowned civilian robotics company, which is focusing on the R&D, production, and sales of consumer and industry-class high-performance general-purpose legged and humanoid robots, six-axis manipulators, and so on. Unitree Robotics has been invited to attend the 2021 CCTV Spring Festival Gala, the opening ceremony of Winter Games 2022, the 2023 Super Bowl, The 19th Asian Games and The 4th Asian Para Games, and the 2025 Year of the Snake CCTV Spring Festival Gala, and has been interviewed and reported by CCTV and other well-known media for many times. Unitree Robotics is the world's first company to start public retail of high-performance quadruped robots, and the first to achieve industry landing, with global sales leading over the years.



H1

Dimensions
(1520+285)×570×220mm

Weight
Approx. 47kg

Leg DoF
5

Hip Joint×3+Knee Joint×1+Ankle Joint×1

Single Arm DoF
4 (Expandable)

Movement Speed
3.3m/s

(Potential kinematic performance > 5 m/s)

Joint Unit Peak Torque

Knee Joint: Approx. 360 N·m

Hip Joint: Approx. 220 N·m

Ankle Joint: Approx. 59 N·m

Arm Joint: Approx. 75 N·m



H1-2

Dimensions
(1503+285)×510×287mm

Weight
Approx. 70kg

Leg DoF
6

Hip Joint×3+Knee Joint×1+Ankle Joint×2

Movement Speed
< 2m/s

Single Arm DoF
7

Shoulder Joint×3+Elbow Joint×1+Wrist Joint×3

Joint Unit Peak Torque

Knee Joint: Approx. 360 N·m

Hip Joint: Approx. 220 N·m

Waist Joint: Approx. 220 N·m

Ankle Joint: Approx. 75 × 2 N·m



Go2

Dimensions
700×310×400mm

Weight
Approx. 15 kg

Payload
≈8 kg (Limit ~12 kg)

Climbing Incline
40°

Movement Speed
0 ~ 3.7 m/s (Limit ~5 m/s)

OTA Updates
Supported

Obstacle/Step Climbing Height
Approx. 16 cm

Max Joint Torque
Approx. 45 N·m



Go2-W

Dimensions
700×430×500mm

Weight
Approx. 18 kg

Payload
≈8 kg (Limit ~12 kg)

Climbing Incline
35°

Movement Speed
0~2.5m/s

OTA Updates
Supported

Obstacle/Step Climbing Height
< 70cm

Max Joint Torque
Approx. 45 N·m



G1

Dimensions
1320×450×200mm

Weight
Approx. 35kg

Total DoF
23-43

Endurance Time
Approx. 2 h

Extra-Large Joint Range of Motion

Waist Joint: Z-axis ±155°, X-axis ±45°, Y-axis ±30°

Knee Joint: 0° ~ 165°

Hip Joint: Pitch ±154°, Roll -30° ~ +170°, Yaw ±158°

Wrist Joint: Pitch ±92.5°, Yaw ±92.5°



R1

Dimensions
1210×357×190mm

Weight
Approx. 25 kg

Total DoF
24-40

Endurance Time
Approx. 1 h

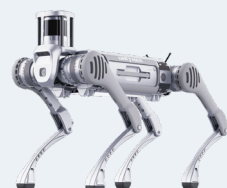
Extra-Large Joint Range of Motion

Waist Joint: Yaw ±150°, Roll ±30°

Knee Joint: -10° ~ +148°

Hip Joint: Yaw ±157°, Pitch: -168° ~ +146°

Roll: -60° ~ +100°



B2

Dimensions
1098×450×645mm

Weight
Approx. 60 kg

Static Load (Standing)
Max. 120 kg

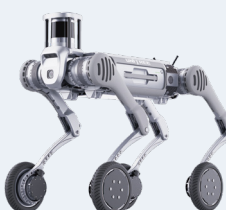
Slope Traversal Capability
> 45°

Running Speed
> 6m/s

Max Long Jump Distance
> 1.6m

Ingress Protection (IP) Rating
IP67

Operating Temperature Range
-20°C~55°C



B2-W

Dimensions
1098×550×758mm

Weight
Approx. 85 kg

Static Load (Standing)
Max. 120 kg

Wheel Max Speed
50rad/s

Battery Capacity
>2 kWh, Voltage 58V

Wheel Diameter
225mm

Platform Max Travel Speed
15km/h

Wheel Max Torque
40N.m



Dex1-1

Dimensions
143×78×67mm

Weight
550g

Stroke
90mm

Gripping Force (Adjustable)
5~120N

Speed (Adjustable)
50~375 mm/s

Gripping Payload (Long Distance)
20kg

Gripping Payload (Friction)
5kg

Jaw Length
80mm



Dex3-1

Dimensions
175×88×77mm

Weight
710g

Dexterous Hand DoF
7

Thumb × 3, Index Finger × 2, Middle Finger × 2

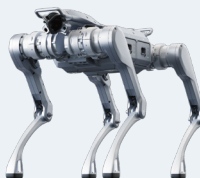
Array Sensor Count
9

(Total of 33 pressure sensors)

Operating Voltage
12~58V

Sensing Range
10g~2500g

Max Withstand Force (Non-Operating)
20kg



A2

Dimensions
820×440×570mm

Weight
Approx. 37 kg

Total DoF
12

Max Joint Torque
Approx. 180 N·m

Continuous Walking Payload
Approx. 25 kg

Slope Traversal Capability
Approx. 45°

Movement Speed
0 ~ 3.7 m/s (Limit ~5 m/s)

Secondary Development
Supported



Z1

DoF
6-Axis

Weight
4.5kg

Payload
>3kg

Max Reach
740mm

Repositioning Accuracy
~0.1mm

Power Consumption
Peak 500W

Force Feedback and Collision Detection
Yes

Control Interface
Position + Force Control



Dex5-1

Dimensions
217.3×127.5×72.1mm

Weight
1000g

Four-Finger Abduction/Adduction
±22°

Fingertip Force
10N

Active DoF
16↑

Min Gripping Diameter
10mm

Fingertip Repeatability Positioning Accuracy
±1mm

Operating Voltage
24V~60V



L2

Dimensions
75×75×65mm

Weight
230g

Scanning Range
30m

Near-Field Blind Zone
0.05m

FOV
360°×96°

Sampling Frequency
128000 points/s

Effective Frequency
64000 points/s

Measurement Accuracy
≤ 2.0cm

This product is designated for civilian robotics applications. Users are strictly prohibited from performing hazardous modifications or utilizing the robots in a dangerous manner. For detailed product terms, conditions, and policies, please visit the Unitree Robotics official website. All users must comply with local laws and regulations.

The above parameters may vary in practical applications depending on different business scenarios, model configurations, and other factors. Please refer to the actual product specifications.