UniX AI

# Wanda 2.0

Full-size General-Purpose Humanoid Robot

Full-size general-purpose humanoid robot Wanda features the world's first mass-produced 8-DoF bionic arm and adaptive intelligent grippers, leveraging multimodal semantic keypoint and an efficient trajectory imitation learning framework. Wanda performs autonomous perception, manipulation, and workflow coordination in complex environments.

### Full-Size Humanoid

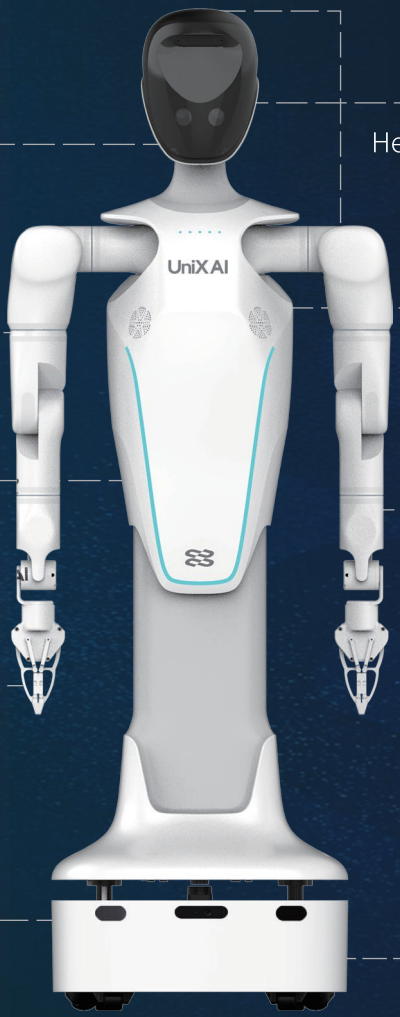
Full-size humanoid robot, with a height of 1400-1680mm.

### 23 DoF High Flexibility

Capable of handling complex tasks in multiple scenarios.

### High Computing Capability

Equipped with powerful edge computing (up to 275 TOPS), ideal for AI perception and real-time control.




### 2-DoF Head

Yaw ±90°, Pitch ±30°

### Minimum Passage Width: 75 cm

### Torso

Lifting Height: 280 mm

### End Effector

Contour Two-Finger Gripper

### High-Density Battery

Battery Life: 8 -16 h

### Perception System

Head mounted dual RGB & RGBD Camera

### Intelligent Voice Interaction

6-Mic Circular Array
Dual Speakers

### 8-DoF Bionic Arm

Dual-arm Load Capacity: 12Kg
Single-arm Reach: 982mm
Repeatability: ±0.5 mm

### Chassis System

Differential Drive Chassis
360° LiDAR
Ultrasonic Sensor
Movement Speed: 1.5m/s
RGBD Camera

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# Wanda 2.0 Series Specification

| Model Type | | Wanda 2.0 Lite | Wanda 2.0 Pro | Wanda 2.0 Ultra |
|---|---|---|---|---|
| System | Total DoF | 23 DoF | 23 DoF | 33 DoF |
| | Dimensions (L * W * H) | 527 mm * 620 mm * 1680 mm | 527 mm * 620 mm * 1680 mm | 527 mm * 620 mm * 1680 mm |
| | Min. Passage Width | 75 cm | 75 cm | 75 cm |
| Head | Field of View | Yaw ±90°, Pitch ±30° | Yaw ±90°, Pitch ±30° | Yaw ±90°, Pitch ±30° |
| | Head Cameras | HD Stereo Camera*1 | HD Stereo Camera*1<br>Orbbec Gemini 2 Camera*1 | HD Stereo Camera*1<br>Orbbec Gemini 2 Camera*1 |
| Bionic Arm | DoF per Arm | 8 DoF | 8 DoF | 8 DoF |
| | Dual-arm locad Capacity | 4 kg | 12 kg | 12 kg |
| | Single-arm Reach | 982 mm | 982 mm | 982 mm |
| | End Effector | Two-Finger Adaptive Gripper | Two-Finger Adaptive Gripper | Two-Finger Adaptive Gripper<br>/ Five-Finger Dexterous Hand<br>(Optional) |
| Torso | Lifting Height | 280 mm | 280 mm | 280 mm |
| | Emergency Stop | Physical E-Stop / Wireless E-Stop | Physical E-Stop / Wireless E-Stop | Physical E-Stop / Wireless E-Stop |
| Interaction Model | Voice Interaction | / | Supports Multiple LLMs<br>(e.g., DeepSeek) | Supports Multiple LLMs<br>(e.g., DeepSeek) |
| Compute Platform | Onboard Compute | NVIDIA Jetson Orin NX 8G<br>(70TOPS) | NVIDIA Jetson Orin NX 16G<br>(100TOPS) | NVIDIA Jetson AGX Orin 64G<br>(275TOPS) |
| Battery | Charging Time | ~ 2 h | ~ 2 h | ~ 2 h |
| | Runtime | 8-16 h | 8~16 h | 8~16 h |
| Chassis System | Max. Speed | 1.5 m / s | 1.5 m / s | 1.5 m / s |
| | Navigation Sensors | / | LiDAR *1 | LiDAR *1 |
| | Drive Mode | Dual Hub Motor Differential Drive | Dual Hub Motor Differential Drive | Dual Hub Motor Differential Drive |
| | RGBD | / | Orbbec 336 RGB-D Camera | Orbbec 336 RGB-D Camera |
| | Obstacle Clearance | ⩽ 20 mm | ⩽ 20 mm | ⩽ 20 mm |
| Teleop System | VR Device | quest3S | quest3S | quest3S |

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