

AGIBOT X2 Humanoid Robot – Technical Specification Sheet

Category	Specification	X2	X2 Ultra	
Basic Information	Material	Aluminum alloy + Magnesium alloy + High-strength engineering plastic + Foamed PU		
	Standing Dimensions (L × W × H)	1310 × 460 × 210 mm (±30 mm)		
	Package Dimensions (L × W × H)	945 × 705 × 475 mm		
	Net Weight (with battery & end effector)	Approx. 35 kg	Approx. 39 kg	
	Gross Weight (package)	Approx. 63.5 kg	Approx. 67.5 kg	
	Typical Power Consumption	Approx. 240 W		
	Operating Temperature	–10 °C to 40 °C		
	Battery Capacity	Approx. 500 Wh		
	Endurance	Approx. 2 h		
	Charging Time	Approx. 1.5 h		
Performance Parameters	Walking / Running Speed	Running ≤ 1.8 m/s		
	Max Payload	3 kg (EU weight not included)		
	End Effector Support	Artificial Hand	Artificial Hand OmniPicker OmniHand	
	Max Step Crossing Height	50 mm		
	Obstacle Clearance	50 mm		
	Climbing Capacity	±10°		
	Minimum Turning Width	900 mm		
Joint Parameters	Active DOF	25	30	
	DOF Distribution	Arm: 5 Waist: 3 Leg: 6	Head: 1 Arm: 7 Waist: 3 Leg: 6	
	Max Joint Torque	120 N·m	120 N·m	
	Visual Sensors	Interactive RGB Camera × 1	Interactive RGB Camera × 1 Stereo RGB Camera × 1 RGBD Camera × 1 3D LiDAR × 1 Rear RGB Camera × 1	
Sensors	Motion Sensor	6-axis IMU × 1		
	Basic Computing Unit	RK3588s × 1 & RK3588 × 1		
Function List	Development Computing Unit	N/A	Orin NX 16 GB	
	Control Methods	Remote Control App Control (AGIBOT Go) Voice Control		
	Built-in Actions	≥ 20		
	Debug Ports	USB Type-C × 1 USB Type-A × 1	USB Type-C × 2 USB Type-A × 2 RJ45 × 2	
	Power Interface	12V / 3A × 1 & 48V / 5A × 1	12V / 3A × 1 & 48V / 5A × 1	
	Package Contents	· Robot Unit x1 · Quick Start Guide x1 · Battery & Charger x1 · Certificate of Conformity x1		
Warranty	Warranty Period	8 months	1.5 years	

Notes:

- Measured when the robot is standing in force-control standing mode;
- At -10 °C, the robot will experience performance and endurance degradation;
- The battery capacity is a typical value, and there are differences between different robot unit;
- Obtained through low-speed walking test in the normal temperature and pressure environment of AGIBOT Laboratory;
- The time it takes to charge from 15% battery to 100% in the normal temperature and pressure environment of AGIBOT Laboratory;
- Measured in a specific posture under normal temperature and pressure environment in the AGIBOT Laboratory;
- Control Priority: Remote Control > App > Voice;