

AGIBOT G2 – Technical Specification Sheet

Basic Specifications	Dimensions	
Measurements (H) x (W) x (L)	1225mm – 1795mm x 640mm x 760mm	
Weight	185kg	
Active Degrees of Freedom	26	
Neck DOF	3	
Single Arm DOF	7	
Waist & Leg DOF	5	
Chassis DOF	4	
Perception System	2x 3D LiDAR	
Stereo Camera	1	
Fisheye Camera	3	
Head RGBD Camera	1	
Wrist RGBD Camera	2	
Range of motion	Head Yaw	±90°
Head Roll	±20°	
Head Pitch	±30°	
Waist Yaw	±174.5°	
Waist Roll	±25°	
Waist Pitch	-110° – 64°	
Knee	0° – 152°	
Ankle	-62° – 0°	
Arm1	±178°	
Arm2	±120°	
Arm3	±178°	
Arm4	-145° – 60°	
Arm5	±178°	
Arm6	±90°	
Arm7	±60°	
Communication	Communication Methods	Wi-Fi, Bluetooth, 4G/5G(optional)
Interaction Modules	Microphone Array	Equipped
Speaker	Equipped	
Facial Interaction Screen	Equipped	
Multi-color Light Strip	Equipped	
Performance	Arm Rated Payload	5kg
Arm Joint Torque Sensor	Equipped	
Chassis Speed	1.5m/s	
Chassis Movement Modes	Ackermann steering, Lateral Movement, In-place rotation	
Autonomous Navigation Passable Width	850mm	
Power System	Number of Batteries	2
Total Battery Capacity	1652Wh	
Endurance	Approx. 4 h	
Recharging Methods	Direct charging, battery swapping, autonomous recharging(charging dock required)	
Charging Time	≤2h	
Charging Voltage	100 – 240V	
Charger Output	54.75V 15A	
Intelligent Control	Basic Computing Board	HUIXI R1 500 TOPS (INT8)
High Computing Board	NVIDIA Jetson T5000 2070 TFLOPS (FP4)	
Others	Handheld Wireless Terminal	Available
Intelligent OTA Upgrade	Available	
Secondary Development	Supported	
Remote Wake-up	Supported	
Whole-machine Protection	IP42	