

## AGIBOT D1 Ultra-W Quadruped Robot – Technical Specification Sheet

| Category                      | Specification                     | Description   |
|-------------------------------|-----------------------------------|---|
| <b>Basic Information</b>      | Material                          | Aluminum alloy with high-strength engineering plastic   |
|                               | Standing Dimensions (L × W × H)   | 630 mm × 440 mm × 455 mm  |
|                               | Lying Down Dimensions (L × W × H) | 690 mm × 580 mm × 145 mm  |
|                               | Total Weight (with battery)       | 20 kg   |
|                               | Operating Temperature             | 0°C ~ 40°C  |
|                               | Ingress Protection Rating         | IP54  |
|                               | Battery Module                    | Rated capacity: 4.6 Ah, Voltage: 43.2V  |
|                               | Charging Duration                 | 1 hour  |
|                               | Battery Life (Operating Time)     | 1-2 hours   |
|                               | Operating Range                   | 9 km  |
| <b>Performance Parameters</b> | Maximum Speed                     | 3.7 m/s   |
|                               | Effective Payload                 | 10 kg   |
|                               | Continuous Stair-Climbing Height  | 16 cm   |
|                               | Maximum Climbing Angle            | 30° standard, up to 40° maximum   |
|                               | Vertical Jump Height              | 35 cm   |
| <b>Joint Parameters</b>       | Maximum Joint Torque              | 48 N-m  |
|                               | Joint Range of Motion (Body)      | -28° ~ +28°   |
|                               | Joint Range of Motion (Thigh)     | -170° ~ -66°  |
|                               | Joint Range of Motion (Calf)      | +35° ~ +156°  |
| <b>Sensors</b>                | IMU                               | Standard  |
|                               | Camera FOV                        | A camera with a resolution of 1920×1080 pixels, featuring DFOV 122°, HFOV 111°, VFOV 70°  |
| <b>Function List</b>          | Standard Actions                  | Standing, Lying, Damping Mode, Pitch Adjustment, Height Adjustment, Horizontal Turning; Forward Jump, Upward Jump, High Platform Climbing, etc. |
|                               | Real-Time Image Transmission      | Supported   |
|                               | Secondary Development (SDK)       | Supported   |
|                               | Functional Expansion Interfaces   | Ethernet*1, USB*2, Power Port*2, SBUS*1, UART*1   |
| <b>Accessories</b>            | Power Adapter                     | Standard  |
|                               | Charging Dock                     | Standard  |
|                               | Remote Control                    | Screen Remote Control   |

### Notes:

- Charging time is measured at a standard ambient temperature of 25°C;
- Operating range is measured at 1 m/s speed under no-load conditions;
- For details on the expansion interface usage, refer to the Expansion Interface Manual.
- For warranty terms, please refer to the Product Warranty Manual;
- All parameters are based on laboratory test data. Actual performance may vary depending on environment and operating conditions.