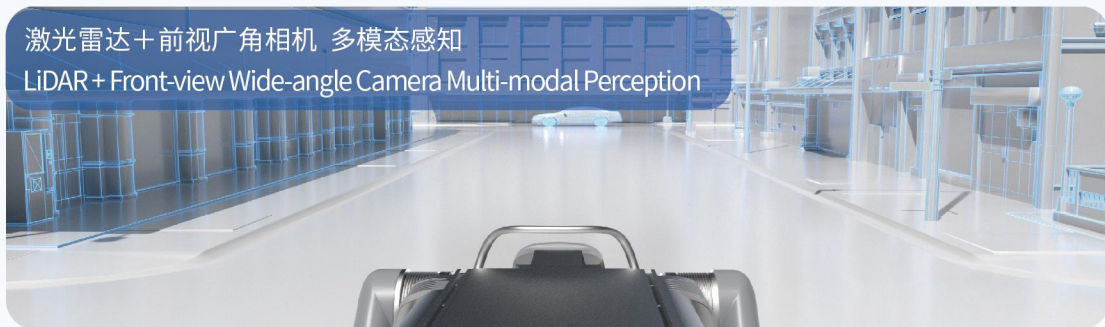
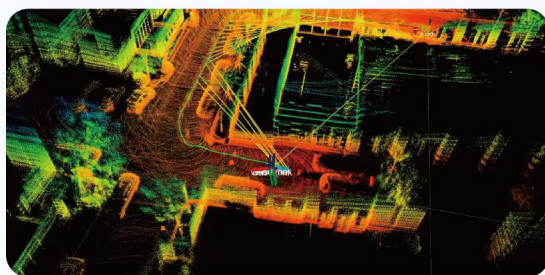
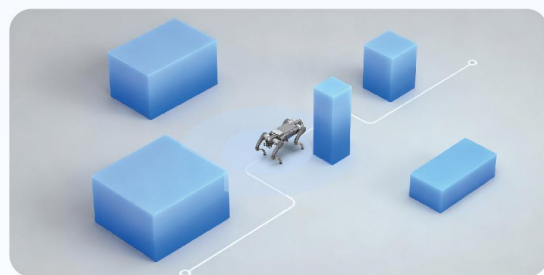




激光雷达+前视广角相机 多模态感知  
LiDAR + Front-view Wide-angle Camera Multi-modal Perception



实时3D环境图构建  
Real-time 3D environmental map construction



可实现自主避障路径规划  
Capable of autonomous obstacle avoidance and path planning

## 应用场景 Application Scenarios

高风险工业设备智能巡检与数据采集  
High-risk infrastructure monitoring (power/substations)



机场/车站/社区等公共场所安保巡逻  
Public security patrols (airports/stations/communities)



地震/废墟/河堤等灾害应急救援侦查搜索  
Disaster rescue operations (earthquake/riverbank zones)



边境等特殊区域治安巡逻、岗哨及武装反恐、防爆等突发事件勘察  
Border security & anti-terrorism missions



工业有毒及重点区域的智能巡检  
Toxic industrial area inspection



工厂/园区/港口等场景安防巡检  
Facility patrols (factories/ports/parks)



☎ 022-59893220

伽利略(天津)技术有限公司  
GALILEO (TIANJIN) TECHNOLOGY CO., LTD.



公司官网  
Official Website



公众号  
Official Accounts



视频号  
Channels



# 智能仿生四足机器人 Intelligent Bionic Quadruped Robot

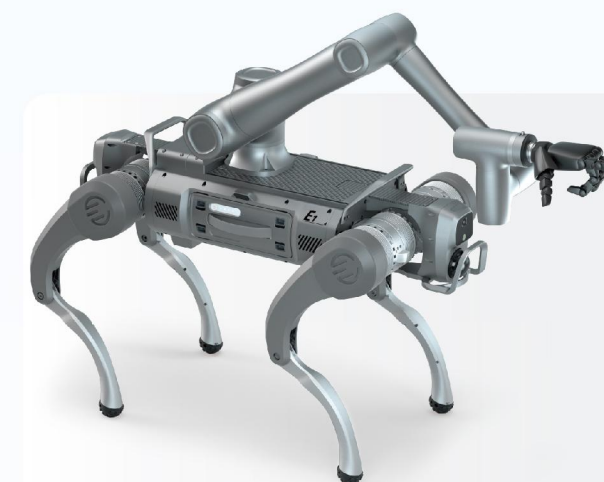


www.galileotime.com

## 自研电机

Self-developed Motor

高扭矩爆发力,可适应草地、沙石地等各种复杂场景  
High torque burst capability, adaptable to complex terrains like grass and gravel



## 强劲负载 超强适配

Powerful load capacity, superior adaptability

可根据需求灵活搭载各行业应用设备  
Configurable with cross-industry application devices as needed

## 超长 灵活续航

Ultra-long and Flexible Endurance

自主充电+手动换电双模能源管理  
Autonomous Charging + Manual Battery Swapping Dual-mode Energy Management



伽利略智能仿生四足机器人

Galileo Quadrupedal Intelligent Bionic Robot

智能仿生四足机器人是我公司独立研发的一款面向行业应用高层级需求，能够适应多变环境的智能仿生机器人产品。

该产品可根据各种复杂的地形与环境、不同的操作需求、以及恶劣的工作环境（包括：有毒、有害、高危等工作场景），定制搭载多种设备，如双光云台、4G/5G、北斗 /GPS/RTK 模块、机械臂、小型雷达、物资载荷、破拆设备、防爆设备、武器等多种负载，从而适应各种不同的应用场景，该智能仿生机器人具备全天候作业、强劲负载、强大适配、超长续航、自主充电、全场景覆盖、强劲算力与精准感知等特点。

Intelligent Bionic Quadruped Robot is a high-level, industry-application-oriented intelligent robot designed to adapt to changing environments. This product can be customized with various equipment to suit different application scenarios. It features all-weather operation, strong load capacity, powerful adaptability, long endurance, autonomous charging, full-scene coverage, robust computing power, and precise perception.

伽利略智能仿生四足机器人系列产品

Galileo Quadrupedal Intelligent Bionic Robot Series

C1

小型工业级/消费级

Small-scale Industrial/ Consumer Grade



C1-W

小型工业级/消费级 (轮式)

Small-scale Industrial/ (Wheeled) Consumer Grade



E1

中型工业级

Medium-Scale Industrial-Grade



E1-W

中型工业级 (轮式)

Medium-Scale Industrial-Grade (Wheeled)



S1

大型工业级

Large-Scale Industrial-Grade



S1-W

大型工业级 (轮式)

Large-Scale Industrial-Grade (Wheeled)



| Item Parameters                                                                                                                                                  |                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| C1(四足)<br>C1(QUADRUPED ROBOT)                                                                                                                                    | C1-W(轮足)<br>C1-W (WHEEL-LEG ROBOT)                                                           |
| 站立尺寸(长×宽×高)<br>Standing Dimensions (L x W x H)                                                                                                                   | 站立尺寸(长×宽×高)<br>Standing Dimensions (L x W x H)                                               |
| 765×410×475 mm                                                                                                                                                   | 765×480×540 mm                                                                               |
| 重量 Weight 22kg                                                                                                                                                   | 重量 Weight 28.5kg                                                                             |
| 电池容量 Battery Capacity                                                                                                                                            | 20AH, 960Wh                                                                                  |
| 电池额定电压 Battery Rated Voltage                                                                                                                                     | 48V                                                                                          |
| 充电器输入 Charger Input                                                                                                                                              | 100V~240V                                                                                    |
| 外接电源接口 External Power Interfaces                                                                                                                                 | 24V电源、48V电源（接口可按需扩展）<br>24V Power Supply, 48V Power Supply (Interfaces expandable on demand) |
| 外接通讯接口 External Communication Interfaces                                                                                                                         | Ethernet、USB2.0、RS485（接口可按需扩展）<br>Ethernet, USB 2.0, RS485 (Interfaces expandable on demand) |
| 充电 可插拔电池，支持自动充电（需搭载激光雷达），充电功率最大 960W<br>Charging Removable battery, supports automatic charging (LiDAR-equipped required), with a maximum charging power of 960W |                                                                                              |
| 运动速度 Motion Speed 0~3m/s(可调节)                                                                                                                                    | 运动速度 Motion Speed 0~5m/s(可调节)                                                                |
| 可攀爬斜坡最大坡度 Maximum Climbable Slope                                                                                                                                | ≥30°                                                                                         |
| 楼梯行走能力 Stair Climbing Ability                                                                                                                                    | ≥20cm连续台阶<br>≥20cm continuous steps                                                          |
| 续航时间 Operating Time 3h(有效负载),5h(空载)<br>3h (with payload), 5h (no-load)                                                                                           | 续航时间 Operating Time 3h(有效负载),5h(空载)<br>3h (with payload), 5h (no-load)                       |
| 续航里程Range >10km                                                                                                                                                  | 续航里程 Range >15km                                                                             |
| 有效负载 Payload Capacity 12kg                                                                                                                                       |                                                                                              |
| 最大负载 Maximum Load 15kg                                                                                                                                           |                                                                                              |
| CPU 国产 ARM 低功耗高性能 CPU（8 核 8 线程 / 8G 内存 / 64G 固态存储）<br>Domestic ARM-based low-power high-performance CPU (8 cores 8 threads / 8GB RAM / 64GB solid-state storage) |                                                                                              |
| 通信 Communication                                                                                                                                                 | 支持WIFI 6无线组网，选配4G、5G<br>Supports WiFi 6 wireless networking , optional 4G、5G                 |
| 通信带宽 Bandwidth                                                                                                                                                   | ≤6 M<br>≤6 Mbps                                                                              |
| 激光雷达Lidar                                                                                                                                                        | 选配<br>Optional                                                                               |
| 摄像头Camera                                                                                                                                                        | 分辨率：1920*1080,帧率：25fps,像素：200万<br>resolution: 1920*1080, frame rate: 25fps, pixel: 2 million |
| 防护等级 Protection Rating                                                                                                                                           | IP67                                                                                         |
| 工作环境温度 Operating Temperature                                                                                                                                     | -20°C~55°C                                                                                   |
| 语音交互 Voice Interaction                                                                                                                                           | 选配<br>Optional                                                                               |
| 手动操控 ManualControl                                                                                                                                               | 配备遥控手柄<br>Equipped with remote-control handle                                                |

| E1 (四足)<br>E1(QUADRUPED ROBOT)                                                                                                                                                                                                 | E1-W(轮足)<br>E1-W (WHEEL-LEG ROBOT)                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 站立尺寸(长×宽×高)<br>Standing Dimensions (L x W x H)                                                                                                                                                                                 | 站立尺寸(长×宽×高)<br>Standing Dimensions (L x W x H)                                                                                                        |
| 1000×452×550 mm                                                                                                                                                                                                                | 995×537×630 mm                                                                                                                                        |
| 重量 Weight 50kg                                                                                                                                                                                                                 | 重量 Weight 60kg                                                                                                                                        |
| 电池容量 Battery Capacity                                                                                                                                                                                                          | 30Ah （1440Wh）                                                                                                                                         |
| 电池额定电压 Battery Rated Voltage                                                                                                                                                                                                   | 48V                                                                                                                                                   |
| 充电器输入 Charger Input                                                                                                                                                                                                            | 100V~240V                                                                                                                                             |
| 外接电源接口 External Power Interfaces                                                                                                                                                                                               | 24V电源、48V电源（接口可按需扩展）<br>24V Power Supply, 48V Power Supply (Interfaces expandable on demand)                                                          |
| 外接通讯接口 External Communication Interfaces                                                                                                                                                                                       | Ethernet、USB2.0、RS485（接口可按需扩展）<br>Ethernet, USB 2.0, RS485 (Interfaces expandable on demand)                                                          |
| 充电 Charging 可插拔电池，支持自动充电，充电功率最大960W<br>Removable battery, supporting automatic charging with a maximum charging power of 960W                                                                                                  |                                                                                                                                                       |
| 运动速度 Motion Speed 0~4m/s(可调节)                                                                                                                                                                                                  | 运动速度 Motion Speed 0~6m/s(可调节)                                                                                                                         |
| 可攀爬斜坡最大坡度 Maximum Climbable Slope                                                                                                                                                                                              | ≥30°                                                                                                                                                  |
| 可攀爬高度 Climbing Height ≥30cm连续台阶<br>正向高度差80cm高台<br>≥30cm continuous steps,Front-facing 80cm elevation platform                                                                                                                  | 可攀爬高度 Climbing Height ≥30cm连续台阶<br>正向高度差100cm高台<br>≥30cm continuous steps<br>Front-facing 100cm elevation platform                                    |
| 续航时间 Operating Time 2.5h(有效负载),4.5h(空载)<br>2.5h (with payload), 4.5h (no-load)                                                                                                                                                 | 续航时间 Operating Time 2.5h(有效负载),4h(空载)<br>2.5h (with payload), 4h (no-load)                                                                            |
| 续航里程Range >16km（实测）                                                                                                                                                                                                            | 续航里程 Range >15km                                                                                                                                      |
| 有效负载 Payload Capacity 30kg                                                                                                                                                                                                     |                                                                                                                                                       |
| 最大负载 Maximum Load 100kg                                                                                                                                                                                                        |                                                                                                                                                       |
| CPU 国产ARM低功耗高性能CPU（8核8线程/8G内存/64G固态存储）+低功耗X86低功耗高性能CPU（4核8线程/16G内存/256G硬盘）<br>Domestic ARM-based Low-Power High-Performance CPU (8C8T / 8GB RAM / 64GB SSD) + Low-Power High-Performance X86 CPU (4C8T / 16GB RAM / 256GB SSD) |                                                                                                                                                       |
| 通信 Communication                                                                                                                                                                                                               | 支持WIFI 6无线组网，选配4G、5G<br>Supports WiFi 6 wireless networking , optional 4G、5G                                                                          |
| 通信带宽 Bandwidth                                                                                                                                                                                                                 | ≤6 M<br>≤6 Mbps                                                                                                                                       |
| 激光雷达Lidar                                                                                                                                                                                                                      | 数量2（前后各1），探测距离30m，水平：0-360° 垂直：0-90°<br>Quantity: 2 (one at the front and one at the back), detection range: 30m, horizontal: 0-360°, vertical: 0-90° |
| 摄像头Camera                                                                                                                                                                                                                      | 分辨率：1920*1080,帧率：25fps,像素：200万<br>resolution: 1920*1080, frame rate: 25fps, pixel: 2 million                                                          |
| 防护等级 Protection Rating                                                                                                                                                                                                         | IP67                                                                                                                                                  |
| 工作环境温度 Operating Temperature                                                                                                                                                                                                   | -20°C~55°C                                                                                                                                            |
| 语音交互 Voice Interaction                                                                                                                                                                                                         | 选配<br>Optional                                                                                                                                        |
| 手动操控 ManualControl                                                                                                                                                                                                             | 配备遥控手柄<br>Equipped with remote-control handle                                                                                                         |

| S1(四足)<br>S1(QUADRUPED ROBOT)                                                                                                                                                                                                  | S1-W(轮足)<br>S1-W (WHEEL-LEG ROBOT)                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 站立尺寸(长×宽×高)<br>Standing Dimensions (L x W x H)                                                                                                                                                                                 | 站立尺寸(长×宽×高)<br>Standing Dimensions (L x W x H)                                                                                                        |
| 1200×550×650 mm                                                                                                                                                                                                                | 1200×550×760 mm                                                                                                                                       |
| 重量 Weight 118kg                                                                                                                                                                                                                | 重量 Weight 128kg                                                                                                                                       |
| 电池容量 Battery Capacity                                                                                                                                                                                                          | 60Ah （3540Wh）                                                                                                                                         |
| 电池额定电压 Battery Rated Voltage                                                                                                                                                                                                   | 双电池，供电电压59V                                                                                                                                           |
| 充电器输入 Charger Input                                                                                                                                                                                                            | 100V~240V                                                                                                                                             |
| 外接电源接口 External Power Interfaces                                                                                                                                                                                               | 12V电源、24V电源、48V电源(可按需拓展)<br>12V Power Supply, 24V Power Supply, 48V Power Supply (Interfaces expandable on demand)                                    |
| 外接通讯接口 External Communication Interfaces                                                                                                                                                                                       | Ethernet、USB3.0、RS485(可按需拓展)<br>Ethernet, USB 3.0, RS485 (Interfaces expandable on demand)                                                            |
| 充电 Charging 可插拔电池，支持自动充电，充电功率最大960W<br>Removable battery, supporting automatic charging with a maximum charging power of 960W                                                                                                  |                                                                                                                                                       |
| 运动速度 Motion Speed 0~3.5m/s(可调节)                                                                                                                                                                                                | 运动速度 Motion Speed 0~6m/s(可调节)                                                                                                                         |
| 可攀爬斜坡最大坡度 Maximum Climbable Slope                                                                                                                                                                                              | ≥30°                                                                                                                                                  |
| 可攀爬高度 Climbing Height ≥30cm连续台阶<br>正向高度差80cm高台<br>≥30cm continuous steps,Front-facing 80cm elevation platform                                                                                                                  | 可攀爬高度 Climbing Height ≥30cm连续台阶<br>正向高度差110cm高台<br>≥30cm continuous steps<br>Front-facing 110cm elevation platform                                    |
| 续航时间 Operating Time 3.5h(有效负载),5h(空载)<br>3.5h (with payload), 5h (no-load)                                                                                                                                                     | 续航时间 Operating Time 2.5h(有效负载),4h(空载)<br>2.5h (with payload), 4h (no-load)                                                                            |
| 续航里程Range >12km                                                                                                                                                                                                                | 续航里程 Range >15km                                                                                                                                      |
| 有效负载 Payload Capacity 100kg                                                                                                                                                                                                    |                                                                                                                                                       |
| 最大负载 Maximum Load 170kg                                                                                                                                                                                                        |                                                                                                                                                       |
| CPU 国产ARM低功耗高性能CPU（8核8线程/8G内存/64G固态存储）+低功耗X86低功耗高性能CPU（4核8线程/16G内存/256G硬盘）<br>Domestic ARM-based Low-Power High-Performance CPU (8C8T / 8GB RAM / 64GB SSD) + Low-Power High-Performance X86 CPU (4C8T / 16GB RAM / 256GB SSD) |                                                                                                                                                       |
| 通信 Communication                                                                                                                                                                                                               | 支持WIFI 6无线组网，选配4G、5G<br>Supports WiFi 6 wireless networking , optional 4G、5G                                                                          |
| 通信带宽 Bandwidth                                                                                                                                                                                                                 | ≤6 M<br>≤6 Mbps                                                                                                                                       |
| 激光雷达Lidar                                                                                                                                                                                                                      | 数量2（前后各1），探测距离30m，水平：0-360° 垂直：0-90°<br>Quantity: 2 (one at the front and one at the back), detection range: 30m, horizontal: 0-360°, vertical: 0-90° |
| 摄像头Camera                                                                                                                                                                                                                      | 分辨率：1920*1080,帧率：25fps,像素：200万<br>resolution: 1920*1080, frame rate: 25fps, pixel: 2 million                                                          |
| 防护等级 Protection Rating                                                                                                                                                                                                         | IP67                                                                                                                                                  |
| 工作环境温度 Operating Temperature                                                                                                                                                                                                   | -20°C~55°C                                                                                                                                            |
| 语音交互 Voice Interaction                                                                                                                                                                                                         | 选配<br>Optional                                                                                                                                        |
| 手动操控 ManualControl                                                                                                                                                                                                             | 配备遥控手柄<br>Equipped with remote-control handle                                                                                                         |