

LaRobo Series Inspection Robots

LaSense Technology is a National High-Tech Enterprise that builds on world-class laser sensing research from The Chinese University of Hong Kong to deliver an integrated “quadruped robot + laser sensing” inspection solution. With ultra-long-range, non-contact, highly mobile and intelligent capabilities, the solution supports unmanned automated inspections in oil and gas, utility tunnels and public safety scenarios, improving efficiency, reducing risks, and enabling safer, smarter and more versatile inspection operations.

Smart Construction Inspection

The LaSense Smart Construction Inspection Robot is designed for complex construction sites. Integrating autonomous LiDAR navigation, AI voice interaction, and multimodal sensing, it offers all-terrain mobility, precise obstacle avoidance, and intelligent hazard detection. It reduces the need for personnel to enter high-risk areas and enables closed-loop safety management from perception and analysis to warning and response.



Gas Pipeline & Petrochemical Plant Inspection

The LaSense Smart Quadruped Inspection Robot is designed for high-risk gas and petrochemical environments. Equipped with all-terrain mobility, dual-spectrum imaging, laser methane detection, LiDAR navigation, and acoustic imaging, it enables 24/7 autonomous inspection, ppm-level gas-leak detection, and early hazard identification while reducing personnel exposure to dangerous areas.



Urban Public Safety Inspection

The LaSense Smart Public Safety Inspection Robot is designed for venues, transportation hubs, plazas, and community areas. Equipped with all-terrain mobility, autonomous navigation, dual-spectrum imaging, gas and noise monitoring, and Mesh communication, it enables 24/7 unmanned patrol and real-time detection of intrusions, fires, leaks, and other safety risks, improving patrol efficiency and emergency response.



LaRobo系列巡检机器人

朗思科技——国家高新技术企业，依托激光感知和香港中文大学的技术优势，推出“机器狗 激光遥测”一体化巡检方案。该方案具备远距离、非接触、高机动、智能化优势，广泛应用于油气燃气、园区管廊及公共安全领域，有效提升效率、降低风险，为您提供更安全、更高效、更智能的巡检保障。

智慧建造巡检

朗思建筑施工智能巡检四足机器人，是专为复杂工地场景量身打造的智能化安全巡检解决方案。深度融合自主导航雷达、AI语音交互与多模态传感任务系统，具备全地形适应、毫米级精准避障及隐患精细识别能力，可高效替代人工进入高危区域执行巡检任务，构建“感知—分析—预警—处置”全链路闭环安全管理体系，引领建筑行业迈向智能化、无人化安防管理新高度。

功能 多气体检测 | 双光谱视觉感知 | AI语言交互 | 激光气体遥测（甲烷）
自主建模地图及导航



燃气管网/石化园区巡检

朗思燃气管网与石化园区智能巡检四足机器人，是一款专为燃气管网、石油化工等高危工业场景量身打造的一体化软硬件协同解决方案。依托全地形自适应底盘，集成双光云台摄像机、激光甲烷遥测仪、自动导航雷达与声纹监测相机，具备-10℃至60℃宽温域稳定作业能力，可实现7×24小时全天候无人化自主巡检。系统支持ppm级高精度气体泄漏检测与设备早期隐患识别，有效替代人工进入高危区域作业，显著降低安全风险，全面重塑工业设施巡检与安全管理新范式。

功能 双光谱视觉感知 | 激光气体遥测（甲烷）| 自主建模地图及导航 | 声学异响探测

城市公共安全巡检

朗思公共安全智能巡检机器人，是一款面向大型场馆、交通枢纽、城市广场及社区园区等重点安保场景打造的一体化主动安防解决方案。依托全地形四足底盘，搭载自主导航激光雷达、双光云台、高清夜视、热成像、气体与噪声监测模块，并融合Mesh自组网通信系统，实现7×24小时无人化巡逻与实时监控。系统精准识别入侵、火情、泄漏及人员异常等隐患，通过自组网确保在复杂建筑结构或公网中断等极端条件下仍保持指挥链路畅通，辅助安保力量快速响应、前置处置，有效提升巡防效率与应急响应能力，为城市公共安全提供智能化、常态化的安防保障新路径。

功能 噪声监测 | 激光气体遥测（甲烷）| 多气体监测 | 双光谱视觉感知
AI语音交互 | 自主建模地图及导航

