u·Log DELIVER 150

A versatile and modular mobile platform – the basis for the development of solutions for countless use cases

- **Open platform** consisting of mobile base, spine, screen and standard interfaces
- Maximum **flexibility** for integrators allowing customized solutions
- **Human Safety** and **Data Privacy** prioritized with highly sensitive sensor technology and certificates
- Open **Software Architecture** with specific access levels for different user groups

VERSION: EN-1-1-6-2403-1.0

UNITED ROBOTICS GROUP
the CobiotX company

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Open APIs for customized solutions

No-Code Software user interfaces

Rapid Deployments within minutes

Call Devices and Follow Devices for an easy interaction with the robot

Multi-Robot Fleet Management for global and local efficiency optimization

Task Management including multiple tasks planning

Online Dashboard operation visualization

Door and Elevator Management enabling easy control and utilization of existing automated systems

Interoperability with other AMR / AGV

Real-time Operation data monitoring

uLog adapts seamlessly to your individual requirements thanks to its modular payload configuration and an intuitive yet powerful mission planer. Paired with unchallenged mobility, sophisticated fleet management and functions for remote controls, uLog enhances both your operational efficiency and your staff satisfaction at a competitive price point.

Basic Functions / Equipment

- Load weight up to 150 kg
- Max. speed of 1.2 m/s
- 4 shelf layers (customizable)
- Embedded screen
- Safety LiDAR
- Safety spot & buzzer
- Camera
- Speakers
- LED lights
- Wireless charging

Technical Specifications

Dimensions	Length	740 mm
	Width	500 mm
	Height	1240 mm
Payload	Rated Load	150 kg
	Shelf Configuration	4 shelf layers
	Shelf Dimensions	580 × 500 mm
	Shelf Configurations	Can be combined and adjusted into 2-layer, 3-layer, 4-layer
Work Environment	Operating Temperature	-10°C - +65°C ; UV resistance; Corrosion resistant
	Charging Temperature	+5°C - +40°C (indoor)
	Work Environment	Indoor and outdoor in qualified parks/industry zones
	Max. Mapping Area	No limit; Max. 200,000 m² recommended for a single map
Storage Conditions	Temperature	-20°C - +65°C
Navigation	Max. Speed	1.2 m/s
	Min. Space Width	700 mm
	Passable Slope	8°
	Gap Crossing	Max. 35 mm
	Obstacle Height	Max. 20 mm
	Elevator and Gate Width	Min. 700 mm
	Position Accuracy	± 5 mm / ± 1°
	Navigation Modes	Free / Track / Mixed / Follow

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Sensors	LiDAR	Detection range 360°, detection distance: 0.02 – 40 m
	Depth Camera	FOV: H 72° (±3°), V 50.5°(±3°), Detection distance: 0.4 ～ 2m
	RGB camera	FOV 215°, resolution 1280*720
	IMU	6 DOF; Rate Dynamic Range: ±2000 dps; Accuracy: 0.01°
	Wheel Speed Sensor	Odometer
Processing Units	Chassis CPU	ARM® Quad-core Cortex-A72 1.5Ghz
	Screen CPU	ARM® Quad-core Cortex-A55 2.0Ghz
	Chassis GPU	VideoCore VI
	Screen GPU	Mail-G52 GPU
	Chassis Memory	RAM: 4 GB Dual channel LPDDR4; ROM: 32 GB High speed eMMC
	Screen Memory	RAM: 2GB Dual channel LPDDR4; ROM: 16GB High speed eMMC
	Image Processing	Support OpenGL ES 1.1/2.0/3.0, OpenCL1.2, Directx11 Embedded high-performance 3D acceleration hardware H.264/H.265/VP9 up to 4Kx2K@60fps H.264/H.265; The decoder supports 10bit decoding 1080P multi-format video decoding, supporting H.264, VP8 and MVC
Wireless Charging System	Dimensions	375 × 160 × 355 mm
	Weight	4.35 kg
	Input Voltage	100 – 240 V
	Input Frequency	50 – 60 Hz
	Output Voltage	29.4 V == 7.0 A
Network Communications	4G	Supported, FDD B1/B3/B5/B8, TDD B38/39/30/41
	5G	Support, need to add 5G accessories
	Traffic quota	Each robot is 2G/month
	WIFI	Wifi module (AP6256) 2.4G&5GHz, support 802.11a/b/g/n/ac protocol
	Bluetooth	Bluetooth 5.0 BLE

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Weight (empty, incl. battery)	90 kg
Cover Material	ABS Plastic
Battery	Type: Lithium ternary Charging voltage: 24 V Battery Capacity: 30 Ah Operation Time: 10 h Charging Time: 5.5 h Charging Temperature: +5°C - +40°C
Display	10.1”, resolution of 1280*720
Connectivity	Open software architecture with different access levels
Expandable Peripherals	Calling buttons, follow me wristband, notification lights and speakers, elevator module, automatic door module
Product Safety Compliance	Machine Directive ISO 12100, ISO 13849, ISO 13850, IEC 60204-1 Risk Assessment & Design (ISO 12100) ISO 3691-4
Electromagnetic Compatibility (EMC)	EMC Directive (EN IEC 62196, IEC 61000-6-2 , IEC 61000-6-4)
Restriction of hazardous substances	DIN EN IEC 62321
Radio Certification	Radio Equipment Directive (ETSI EN 489-1, ETSI EN 489-17, ETSI EN 489-52) ESI EN 300 238 ESTI EN 301 908-1, ETSI EN 301 908-13 EN 1175 EN IEC 62311 :2020

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IP Rating	Whole body: IP43; Battery: IP66
Charger Safety Compliance	Low Voltage Directive
Battery Safety Compliance	UN38.3
Software	APP remote management Robot management platform Remote monitoring platform Remote deployment management platform Remote scheduling management platform Real-time data visualization
OS	Android 11 + Linux (Ubuntu)
Interfaces	Restful APIs Open API/SDK at the Chassis level Compatible with WMS, MES, RCS Systems

Product Views