

ARan

TECHNICAL SPECIFICATIONS

wiki.ros.org/Robots/ARan-base

Payload

150 kg

Dimensions

615 x 525 x 295 mm

Weight

47 kg

Max. speed

1m/s

Autonomy

8h

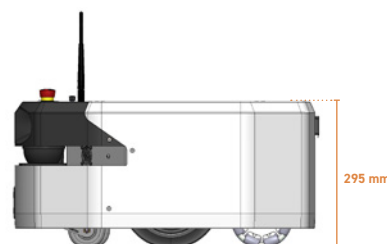
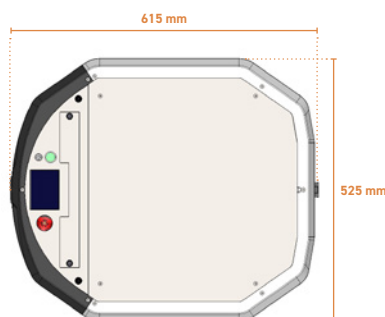
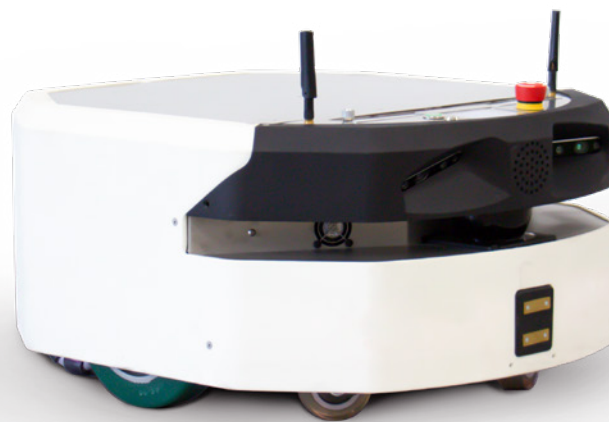
Traversable gap

40 mm

ARan

The smartest AMR designed for you

ARan is the mobile base designed for you. Obtain 3D environment perception and richer data collection with the robot's wide 245° Field of View (FoV) LiDAR and two RGB-D cameras. Unleash high performance computing and AI research using ARan's NVIDIA Jetson GPU add-on. Move payloads of up to 150kg with excellent balance in indoor environments, including with harsh conditions and wet grounds, thanks to the built-in insulation and improved suspension system. Enjoy the easy-to-use visual programming and advanced navigation suite to collaborate with people and deploy the robot right away.



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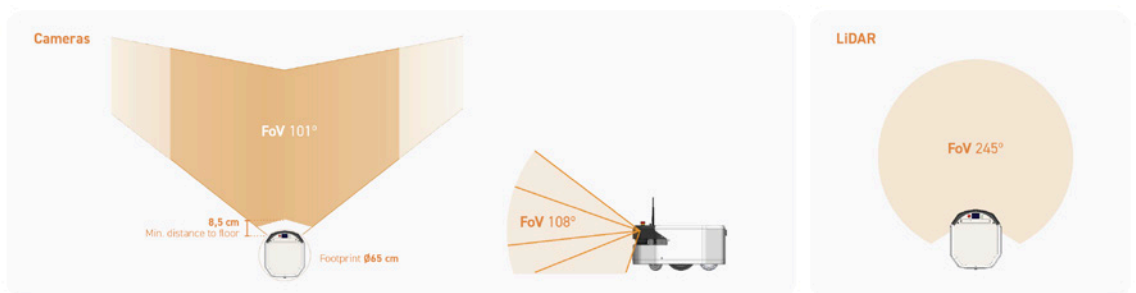
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FEATURES	Rotation diameter	650mm
	Motorised Wheels	2
	Omni Wheels	4
	Tactile control display	HDMI Screen 4.3"
	Active ventilation	✓
	IMU	✓
	Speaker	✓
	On/Off push button	✓
	Emergency stop	✓
	Power charger	✓
	Indication lights	✓

USER PANEL	Expansion	10x GPIO
	Power	Battery / +12V
	Power connector	✓

CONNECTIVITY	Wi-Fi	Intel ® Wi-Fi 6AX201(802.11ax Dual Band 2x2)
	Bluetooth	5.2
	Ethernet	2x Gigabit
	USB	4x USB 3.2 Gen1
	Service Panel	1x HDMI

VISION	Depth Technology	Stereoscopic
	RGB-D Sensor FoV	86°x57°
	Robot FoV	101°x108°
	Cameras	2x Intel ® RealSense™ D435 - 6DoF
	LiDAR	Laser Scan up to 25 metres range



SOFTWARE	Ubuntu LTS + ROS	✓
	Navigation software	✓

OPTIONALS	CPU	i7	Additional battery	✓
	RAM	16 GB	2x channel CAN Board	✓
	SSD	500 GB	Dock station	✓
	AI	NVIDIA® Jetson™	Advanced Navigation	✓
			Visual Programming	✓