

Scan to Follow



Laser SLAM AMR Chassis

AMB-300XS

CE Certified, Safety Upgrade



CE Safety Certified, Outstanding Performance & Excellent Safety Standard by Design

CE certification (ISO 3691-4:2020) provides the highest level of quality and safety assurance, which supports export.



Rich Interfaces for Rich Applications

I/O, CAN, RS485 and other interfaces are reserved for the expansion of the upper-level mechanism, which can realize various robot applications.



Accurate Positioning of ± 5 mm

Navigation position accuracy of ± 5 mm and navigation speed of 1.5 m/s help enterprises to work efficiently.



Overall Functions and Hassle-free Expansion

Basic functions include map editing, model editing, positioning and navigation, basic motion model (differential), peripheral extensions (rollers, lifting, latent traction), interfaces, etc.



CLASS 4 Cleanliness, More Reliable

Pass ISO CLASS4 cleanliness test, can be directly used in high cleanliness demand industries such as semiconductor.



3D Obstacle Detection, More Safe

3D obstacle detection and reflector navigation are supported to further enhance product safety performance.

Parameter Specification

● Standard ○ Optional



Basic parameters

Product name	Laser SLAM AMR Chassis
Navigation type	Laser SLAM
L x W x H	842 x 582 x 302.5 mm
Rotation diameter	972.6 mm
Weight (with battery)	120 kg
Maximum load capacity	300 kg
Chassis ground clearance	27 mm
Navigation laser scanning height	185.43 mm
Ambient temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation

Performance parameters

Passability (slope / step / gap)	≤5% / 5 mm / 30 mm
Minimum aisle width	722 mm
Navigation position accuracy	±5 mm
Navigation angle accuracy	±0.5°
Driving speed	≤1.5 m/s

Battery parameters

Battery specifications	48 V / 40 Ah (ternary lithium)
Comprehensive battery life	12 h
Charging time (10% to 80%)	≤2.5 h
Charging method	Manual / Automatic / Fast battery swap

Configurations

Lidar number	2 (SICK nanoScan3)
E-stop button	●
Speaker	●
Ambient lamp	●

Function configurations

Basic functions	●
Wi-Fi roaming	●
Automatic charging	●
Shelf recognition	●
Laser reflector navigation	○
3D obstacle avoidance	○
Precise positioning with QR code	○

Certifications

ISO 3691-4	●
EMC / ESD	●
Cleanliness	ISO Class 4

Dimension (mm)

