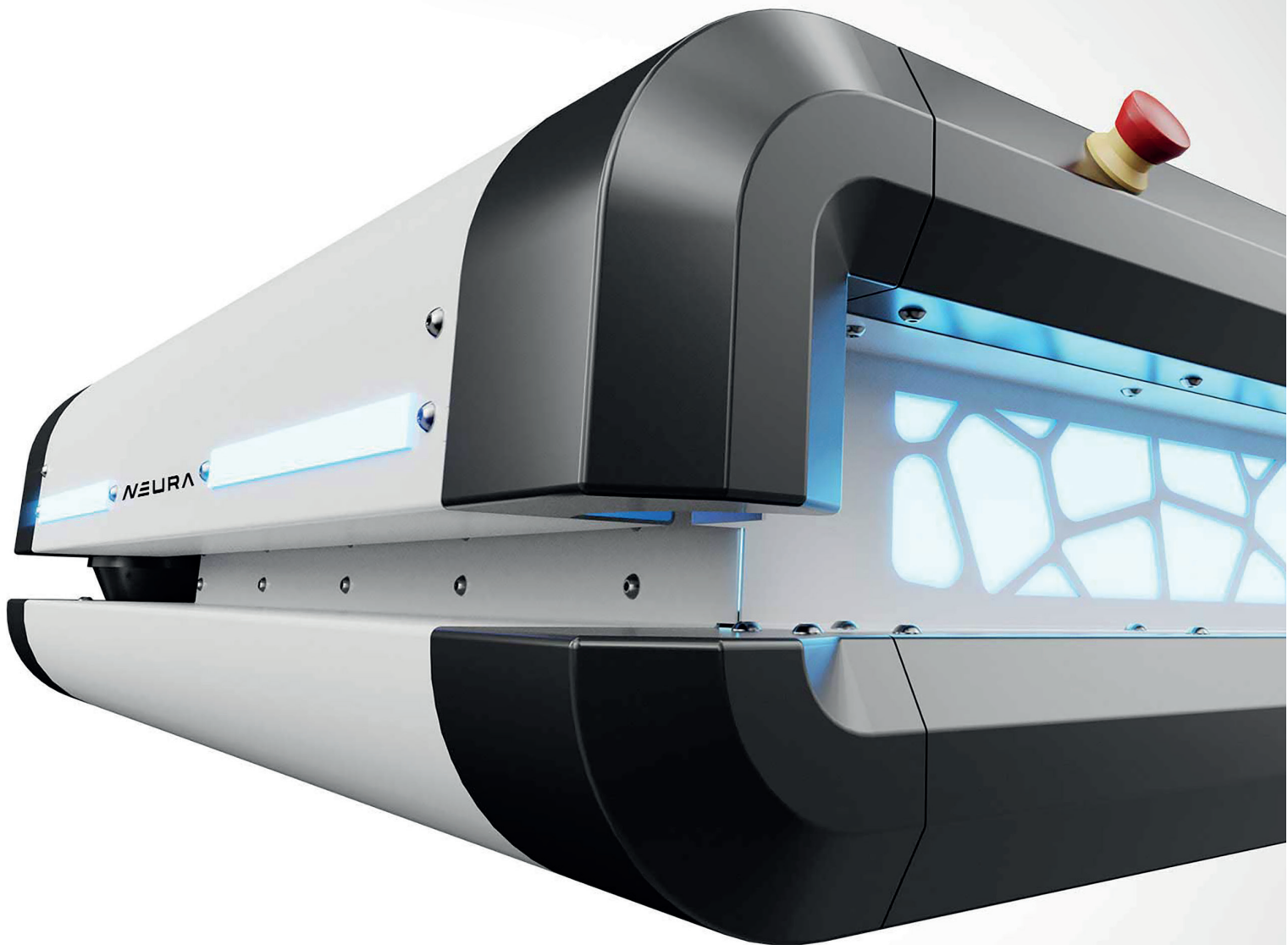


NEURA

Datasheet

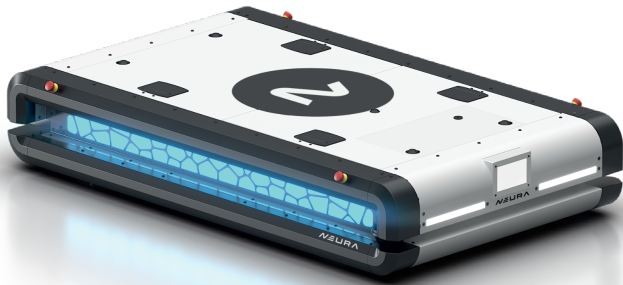
MAV[®]

World's smartest and most performant
Mobile Robot.



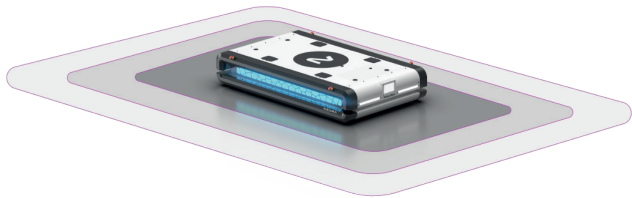
World's smartest and most performant Mobile Robot.

MAV revolutionizes intralogistics by loading and moving any type of goods autonomously. Thanks to its integrated sensors, it can navigate and safely detect obstacles without requiring additional peripheral devices. Combining MAV with a collaborative or cognitive robot creates powerful mobile manipulator solutions.



Specs	MAV 500	MAV 1500	MAV 3500
Payload	500 kg	1500 kg	3500 kg
Dimensions	L1255 mm x W678 mm x H294 mm	L1530 mm x W910 mm x H293 mm	L2375 mm x W1100 mm x H350 mm
Weight	300 kg	400 kg	500 kg
Velocity	1.5 m/s	1.5 m/s	1.3m/s
Positioning accuracy	±5 mm	±5 mm	±10 mm
Lifting Unit	0-45 mm, 4 x 125 kg	0-55 mm, 4 x 374 kg	0-55 mm, 2 x 1775 kg
Load Detection	Based on request	Based on request	RFID Based
Charging Time	1.5 hrs	2 hrs	2 hrs
Uptime	7 hrs	10 hrs	7 hrs
Battery Increase Possibility	No	Up to 200%	Up to 200%
Supply Voltage	230 V, 50-60 Hz		
Charging Methods	Wired And Inductive		
Actuation	Differential drive		
Communication interfaces	CAN, Ethernet, Python API		
Outbound interfaces	1x Ethernet, 1 x CAN		
IP classification	IP 44/IP 54 based on request		
Status indicators	Front and side status LEDs		

Safety Features	
360° Safety Laser Scanners	PLd/Category 3 (ISO 13849-1)
Manufacturing Compliance	ISO 3961-4
Safety Zones	safety zone with safe stop, and 2 warning zones with stop and reduced speed
Field Sets	2-32



- Warning zone 2 (reduced speed)
- Warning zone 1 (stop)
- Safety zone (safe stop)

Software features	
Network Connectivity	WLAN Control (NAT)
Human-Robot-interaction	Visual, audio, force feedback, motion tracking, PC-based GUI
Environment visualization	dynamic obstacle bypass and trajectory replanning*
Fleet management	Formation driving*, and fleet monitoring tool* (based on number of vehicles requested)
SLAM	Dynamic Mapping Avoidance and
Communication	Python API
Neuraverse	Navigation available from numerous solution providers

Life cycle	
Service interval	12 months
T1 components lifetime	Min. 36.000 h
T2 components lifetime	Min. 25.000 h

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