

PIXEL PT

A solution which is more than just transporting goods from A to B. With its unique camera vision approach Pixel Robotics solves transport processes holistically: Automatic order generation, autonomous transportation and advanced real-time fleet supervision with an integrated digital twin of the environment.

Datasheet



Data

Product name	Pixel PT
Dimensions L x W x H	1,980 mm x 800 mm x 1,740 mm

Performance

Max. Speed	1.5 m/s
Max. Lifting Weight	1,300 kg
Max. Lifting Height**	250 mm 500 mm 900 mm

Electrical Data

Operating voltage AMR	25.6 V DC
Battery type	LiFePO4
Capacity	200 Ah
Continuous operation time	8 – 16 h*
Max. operating time per day	19 – 21 h*
Operating voltage charging station	24 V DC
Power connection charging station	230 V AC / 12A
Charging time at 24 V / 100 A	2 h*
Charging concept	Automatic and opportunistic charging with charging contacts

Mechanical Data

AMR weight	550 kg
Fork width	550 mm
Fork length	1,150 mm
Lifting system	hydraulic

Environmental Data

Temperature range	+0 °C to +40 °C
-------------------	-----------------

Other Data

CE declaration	Yes
VDA 5050 compatible	Yes

Accessories

Label Recognition Unit	
Charging Station	
Maintenance Kit	

* environment-dependent
** different variations



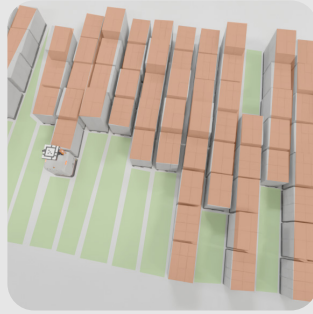
Order generation

April-Tags



automatic

Fill Grade Detection



automatic

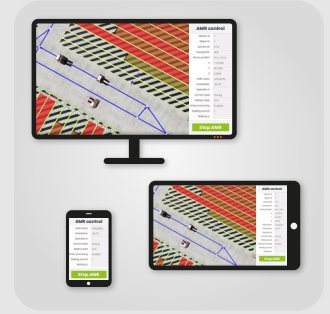
Interface

(RESTful API, VDA 5050, WMS, SAP ...)



automatic

Desktop UI / App



manual

Fleetmanager

Charging management



Remote Control Teleoperation



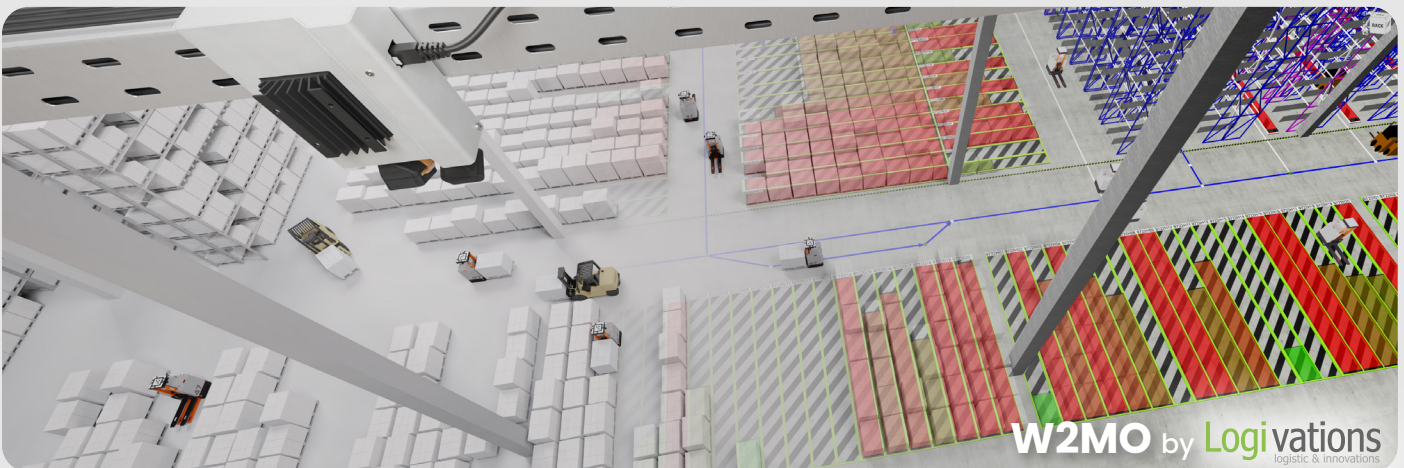
Analytics



Notifications by mail or phone



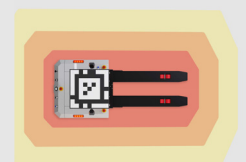
Digital Twin / Visualization



- Visualization of the environment including loads, forklifts and people
- Process modelling
- Simulation & Optimization

Safety Features

- Real 360° Safety with SICK safety sensors and controllers (contours of the robot)
- Standard camera-based obstacle avoidance system in direction of travel
- Standard signal light package with Blue Spot and Red Safety Zone Lamps



Space requirements of the Pixel PT for a 1,200 x 800 mm Pallet (EPAL)

