

CARY[®] *up*

autonomous mobile robot

TECHNICAL DATA



METRA
Metra Labs
mobile robots
robots that inspire

state 03/2024

GENERAL SPECIFICATIONS	CARY® up pro	CARY® up summit
weight [kg]	80	
dimensions (LxWxH) [mm]	1038x402x678	
max. speed [m/s]	0.9	
max. operating time per charge [h]	6	
temperature during operation [°C]	+10 to +40	
temperature during transport [°C]	-25 to +55	
humidity	20 % - 60 % rH	
minimum passage width [cm]	80	
max. gradient	5%	
ground clearance [mm]	17	
VDA5050 compatible	Yes	
fleet management	Yes	
monorail compatible	Yes	
BATTERY	CARY® up pro	CARY® up summit
type	LFMP	
nominal capacity [Ah]	60	
operating voltage [V]	26	
lifetime	≥ 1500 discharge cycles (80% DOD)	
rate of self-discharge [%]	≤ 3	
charging time (0% zu 80%) [h]	3	
POWER SUPPLY	CARY® up pro	CARY® up summit
type	MetraLabs autonomous charging station (ACS)	
input power [W]	max. 1200	

DRIVE	CARY® up pro	CARY® up summit
type	Brushless DC electric motors (BLDC)	
system	ISO 13849-1, Performance Level d	
torque [Nm]	typ.: 19,4 max.: 81	
software	CogniDrive® [Metralabs]	
FORK	CARY® up pro	CARY® up summit
minimum height [mm]	110	
max. lifting height [mm]	36	
width [mm]	230	
max. payload [kg]	50	250
SAFETY	CARY® up pro	CARY® up summit
safety laser scanner (vertical)	Yes	
safety laser scanner (horizontal)	Yes	
3D camera	Yes	
blinker	Yes	
blue spot	Yes	
acoustic warning system	Yes	
bumper	Yes	
CE	Yes	
DOLLY DETECTION	CARY® up pro	CARY® up summit
proximity switch	Yes	
camera	Yes	
switch contacts	Yes	
ACCESSORY	warning light, distance piece for switch of dollies, sensor for detecting dollies, loss prevention	