reddot design award

DESIGN AWARD 2021

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The World's Most Innovative Cleaning Equipment Systems

Intelligent Assistant Robot

Autonomous navigation, Intelligent obstacle avoidance

Voyager supports autonomous driving with passengers, equipped with LiDAR and depth cameras to automatically detect surroundings, pedestrians, objects, and autonomously avoid obstacles.

Public transit, Assisted Mobility

Innovative sharing mode and flexible rental service, to meet the needs of multiple scenarios and create a new way of travel services.
Novel personal intelligent walking-aid tool for Independent and free travel.

Simple operation, Convenient ride

Flex-shaft joystick handle, easy to hold or grip. User-friendly settings with the control joystick handle and the switch on one side, enabling one-handed operation. Easy to get started, simple to control, and flexible for the elderly to operate.

Long battery life, Reliable travel

Battery range of 20 km. Charging for 5 hours. (12.5 miles range)
Removable battery, independently rechargeable.
Equipped with a backup battery to extend the driving range.

Introduction

Minimalist Panel

Side Arm Adjustment Design

Smart Panel

Small Turning Radius

Omnidirectional Wheels

Parameters

Vehicle size	86*60*92cm(33.9 x 24 x 36inch)
Vehicle weight	55 kg (121 lbs)
Maximum load	250 kg (550 lbs)
Type of front wheel	Omnidirectional wheels
Type of rear wheel	Pneumatic tire
Diameter of front wheel	25 cm (10 inch)
Diameter of rear wheel	25 cm (10 inch)
Take Elevator	Support
Mode of operation	SLAM navigation and remote control in hand
Braking mode	Electromagnetic braking
Travel speed	1 km/h(0.6 mph) - 6 km/h(3.7 mphz)
Turning radius	76 cm (30 in)
Ground clearance	125 mm(4.9 in)
Obstacle height	6 cm(2.4 in)
Ramp angle	< 10°
Battery capacity	22 Ah

Usage Scenario

School

Shopping Mall

Airport

Nursing Home

Residential Area

Transportation Hub

Hospital

Office Building

Creative Products International, Inc. - www.5DClean.com
5DClean@creativeidea.net - Phone: 616-510-5130