

DUST-E MX



HIGHLIGHTS

Monocular panoramic camera

-  **Extensive field of vision**
210° degrees of camera coverage, no hidden corners, and highly efficient route planning
-  **High precision positioning**
Millimeter-level positioning accuracy
-  **Multi-task with Ease**
Registers about 1,000 landmarks simultaneously

Richtech's control platform

-  **AI computing power**
Three trillion operations per second
-  **Comprehensive vision system**
10 bit color depth with support for over a billion hues

-  **ARM architecture**
Small size, low temperature output, power consumption reduced by more than 50%

Wide-angle 3D-TOF camera

-  **High frame rate**
45FPS
-  **Detailed captures**
Recognition accuracy of about two centimeters
-  **Ultra-responsive**
Response time of about 20 milliseconds
-  **Wide visual angle**
135° degrees of vision

High-speed lidar

-  **High rotation speed**
900 rpm
-  **Extreme precision**
0.125 degrees
-  **Long detection distance**
Limit distance of 30 meters

1D lidar

-  **High-level precision**
spot size <1 centimeter
-  **Anti-interference**
Infrared spectrum of 808 nanometer

PRODUCT SPECS

Basic specs	
Size L * W* H	44 in x 22 in x 45 in
Weight	557 lbs (without water)
Performance specs	
Cleanable width	20 in
Width of suction rake	30 in
Pressure on the ground	60 lbs
Brush pressure per unit area	13.2 g/cm ²
Fresh water tank volume	17 gal
Waste water tank volume	13 gal
Circulating water system	N
Travel speed	2.5 mph
Work efficiency	21,958 sqft/h
Gradeability	6°
Electronic system	
Voltage	DC24V
Battery life	3 - 4h
Battery capacity	DC24V, 120Ah
Intelligent system	
Navigation scheme	Vision + Laser
Sensor solution	Monocular panoramic camera / binocular camera/ lidar/3Dtof camera/ultrasonic wave/IMU/ Electronic bumper
Automobile data recorder	Selectable

PROPRIETARY TECHNOLOGY, SELF-DEVELOPED DESIGN

Proprietary AI algorithm that combines laser and camera vision for location and composition. A variety of key sensors for robot have been developed independently.

SAFE AND RELIABLE IN ANY ENVIRONMENT

Multiple protection systems, intelligent recognition, and rapid response combines together to ensure safety during operation.

EASY TO USE, SMOOTH INTERACTION

We've optimized practical logic and interaction touchpoints to create a polished, zero-cost robot operating system for users.