

New solution for complete internal logistics

"Your partners for Automation"

i-AGV

The new solution for "logistics system"

"Your partners for Automation"



How Intelligent?

MEET THE FUTURE OF AUTOMATION



Flexible Material Handling System

Operated by automatic/manual control system with its suitable operating part above platform subjected to other applications.



Real-time Wireless Traffic Control

Fast-Roaming allows a client to roam quickly which doesn't require reauthentication within its WiFi coverage once it roams from one AP to another.



Obstacle Detection & Avoidance

Find the new obstacle-free trajectory to reach the destination based on SLAM method in real-time.



Path Planner for Waypoints & Destination

Intuitive control even for a number of waypoints along with its driving information for each other to be setup by controller.

Flexible Material Handling System

Operated by automatic/manual control system with its suitable operating part above platform subjected to other applications.

Wireless Traffic Control

Fast-Roaming allows a client to roam quickly which doesn't require reauthentication within its Wi-Fi coverage once it roams from one AP to another.

Path Planner for Waypoints & Destination

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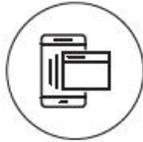
The iAGV provides the safety, cost-effectiveness and reliability.

Make your production flexible free from a fixed line

Do you want to respond more quickly to market changes, optimize your capacity utilization and manufacture smaller batches? The answer for these challenges is a flexible and self-organizing handling concept based on SIS AGV platform. With the ability to be installed into an existing facility, AGV provides a safe, cost effective and reliable option. By open AGV interface and entire line of system support tools, we offer SIS iAGV which has intuitive control features.

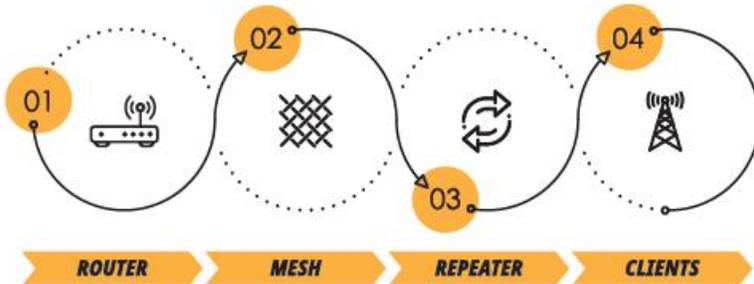
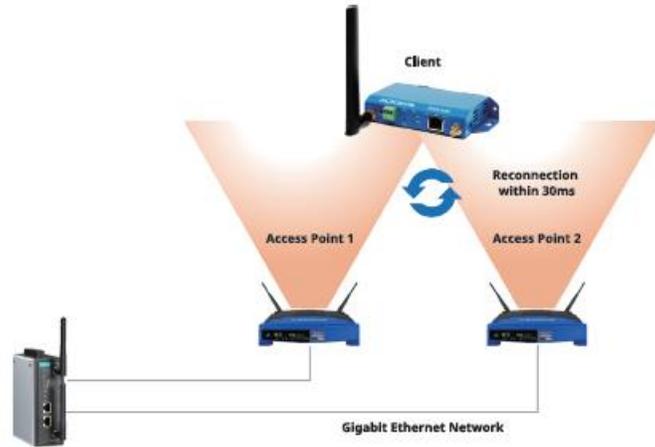
COMMUNICATION SYSTEM

Wireless communication system by only a single access point installed inside of working premise



Fast-Roaming Protocol

A client device to roam quickly in environments implementing WPA2 enterprise security, by ensuring the client device doesn't need reauthenticating to the radius server at all time it roams from one to another.



SAFETY SYSTEM

To make sure of safe driving system, a plenty of safety features mounted on iAGV protect itself and human operators.



Stereo Vision Camera

Stereo vision camera with high definition 3D visual localization provides depth sensing and motion tracking to prevent from accident happened unexpectedly.



Laser Sensor

It measures the distance with any obstacle around the vehicle by a couple of sensors at the one-sided corner of vehicle which has 270° range of detection for each other.

Stereo Vision Camera

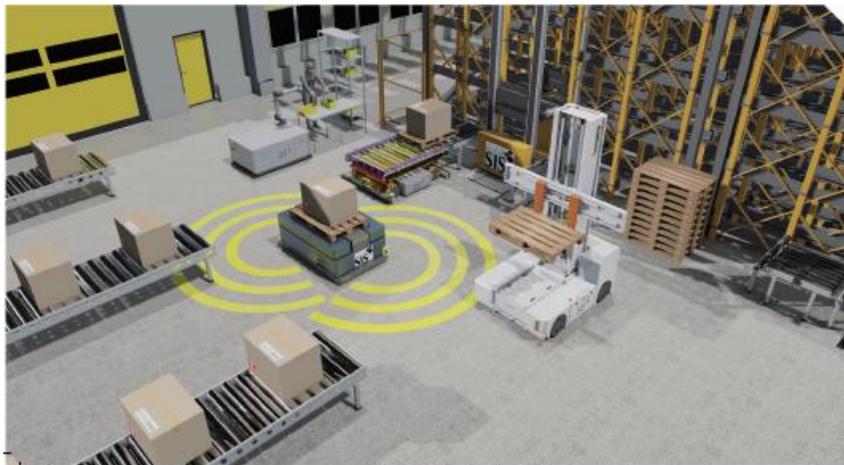
Stereo vision camera with high Definition 3D visual localization Provides depth sensing.

Laser Sensor

It measures the distance with any obstacle around the vehicle by a couple of sensors at the one-sided corner of vehicle which has 360° range of detection for each other.



Your choice of a plenty of safety features will make iAGV protect itself and human operators.



LIFT i-AGV

This Lift type AGV offers smooth acceleration and deceleration, working with lift & down of a load device and high precision of 10mm stopping accuracy by using the mecanum wheel, which offers all-directional travel.



Dimensions	L2,000*W2,200*H750mm / Customizable
Driving type	Magnetic Guided, Laser, QR, Automatic Driving / Customizable
Navigation mode	All direction (Mecanum wheel)
Driving mode	Automatic-driving, Manual
Loading mode	Lift
Duration of endurance	8H
Charging mode	Auto-Charging System
Running speed	0~1.0m/s / customizable
Lift stroke	Customizable
Loading capacity	Between 0.5T and 3T / Customizable
Navigation accuracy	±10.0mm
Stopping precision	±10.0mm
Driving power supply	DC50V / Customizable
Safety device	Stereo Vision Camera, Laser Sensor, Bumper Sensor
Safe distance	500mm
Alarm form	Acousto-optic alarm
Battery warning	Auto-Charging System
UI	Monitoring system
Use environment	Indoor, temperature: 0-35°C, relative humidity: 20% - 80%
Designed life	10 years

Dimensions	L2,000*W2,200*H750mm (customizable)
Driving type	Magnetic Guided, Laser(Vision / Sensor), QR, Automatic Driving (customizable)
Navigation mode	All direction (Mecanum wheel)
Driving mode	Automatic-driving, Manual
Loading mode	Lift
Duration of endurance	4H ↑
Charging mode	Auto-Charging System
Running speed	0~1.0m/s (customizable)
Lift stroke	Customizable
Loading capacity	Between 0.5T and 3T (customizable)
Navigation accuracy	±10.0mm
Stop-precision	±10.0mm
Battery Voltage	DC48V (customizable)
Safety device	Stereo Vision Camera, Laser Sensor, Bumper Sensor
Safety distance	500mm
Alarm form	Sound / Light / Alarm Sound/ Buzzer, etc.
Charging type	Auto-Charging System
UI	Monitoring system
Use environment	Indoor, temperature: 0-35°C, relative humidity: 20% - 80%

CONVEYOR i-AGV

A top surface of AGV is made of a conveyor and load is automatically moved from AGV to conveyor located in a warehouse and reverse. It is a perfect solution for palletized goods in warehouse where manual operations need to be eliminated as much as possible.

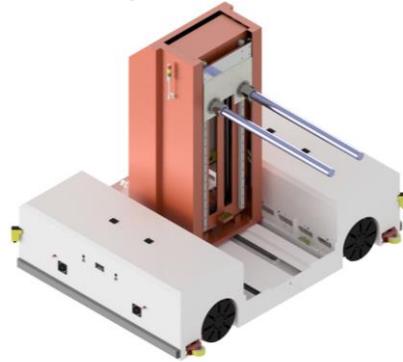


Dimensions	L2,200*W1,800*H750mm / Customizable
Driving type	Magnetic Guided, Laser, QR, Automatic Driving / Customizable
Navigation mode	All direction (Mecanum wheel)
Driving mode	Automatic-driving, Manual
Loading mode	Conveyor
Duration of endurance	8H
Charging mode	Auto-Charging System
Running speed	0~1.0m/s / customizable
Lift stroke	Customizable
Loading capacity	Between 0.5T and 5T / Customizable
Navigation accuracy	±10.0mm
Stopping precision	±10.0mm
Driving power supply	DC50V / Customizable
Safety device	Stereo Vision Camera, Laser Sensor, Bumper Sensor
Safe distance	500mm
Alarm form	Acousto-optic alarm
Battery warning	Auto-Charging System
UI	Monitoring system
Use environment	Indoor, temperature: 0-35°C, relative humidity: 20% - 80%
Designed life	10 years

Dimensions	L2,200*W1,800*H750mm (customizable)
Driving type	Magnetic Guided, Laser(Vision / Sensor), QR, Automatic Driving (customizable)
Navigation mode	All direction (Mecanum wheel)
Driving mode	Automatic-driving, Manual
Loading mode	Conveyor
Duration of endurance	4H ↑
Charging mode	Auto-Charging System
Running speed	0~1.0m/s (customizable)
Lift stroke	Customizable
Loading capacity	Between 0.5T and 3T (customizable)
Navigation accuracy	±10.0mm
Stop-precision	±10.0mm
Battery Voltage	DC48V (customizable)
Safety device	Stereo Vision Camera, Laser Sensor, Bumper Sensor
Safety distance	500mm
Alarm form	Sound / Light / Alarm Sound/ Buzzer, etc.
Charging type	Auto-Charging System
UI	Monitoring system
Use environment	Indoor, temperature: 0-35°C, relative humidity: 20% - 80%

FORK LIFT i-AGV

Any height, any load
 : the Fork lift i-AGV has the right selection for customers' Needs. It can be easily configured to stack loads in racks. The i-AGV is increasingly becoming a must in manufacturing premises and warehouses where operations are highly standardized, repetitive, and easily accomplished without need of human intervention.



Dimensions	L3,500*W2,500*H2,700mm / Customizable
Driving type	Magnetic Guided, Laser, QR, Automatic Driving / Customizable
Navigation mode	All direction (Mecanum wheel)
Driving mode	Automatic-driving, Manual
Loading mode	Fork lift
Duration of endurance	8H
Charging mode	Auto-Charging System
Running speed	0~1.0m/s / customizable
Lift storke	Customizable
Loading capacity	Between 0.5T and 5T / Customizable
Navigation accuracy	±10.0mm
Stopping precisoin	±10.0mm
Driving power supply	DC50V / Customizable
Safety device	Streo Vision Camera, Laser Sensor, Bumper Sensor
Safe distance	500mm
Alarm form	Acousto-optic alarm
Battery warning	Auto-Charging System
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Use environment	Indoor, temperature: 0-35°C, relative humidity: 20% - 80%
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Loading mode	Fork Lift
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