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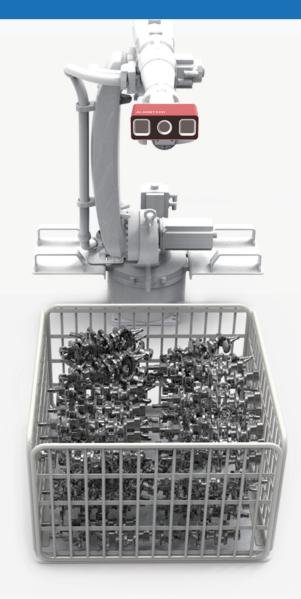
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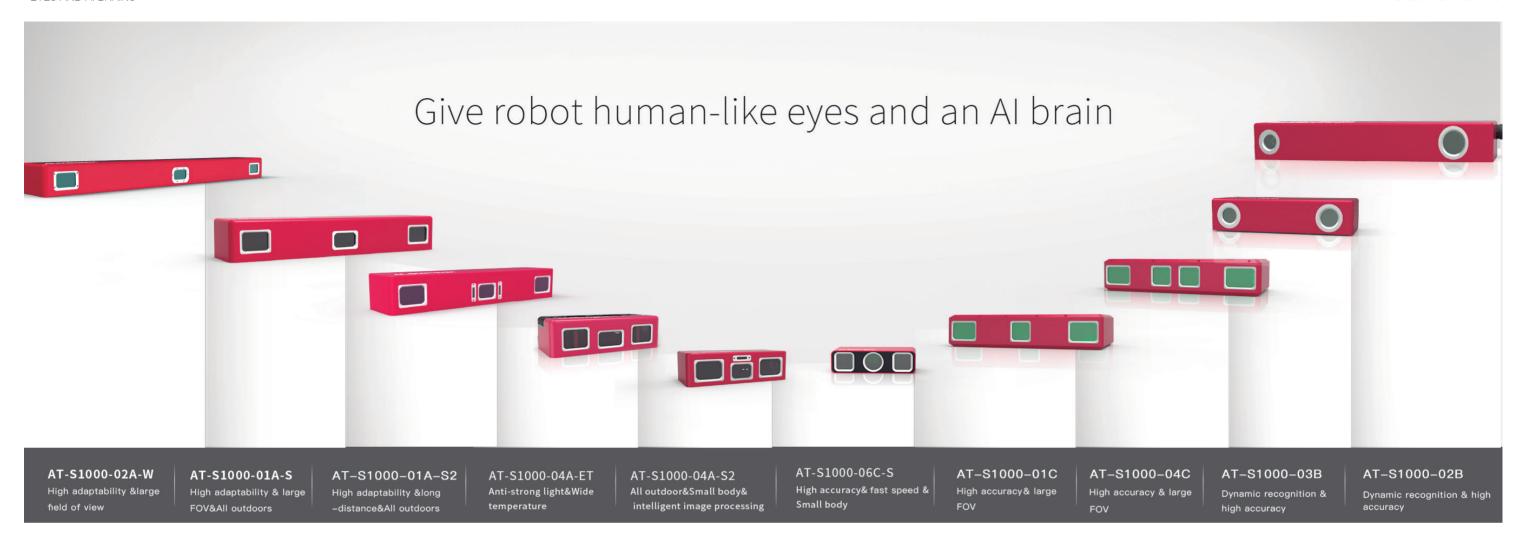




3D vision positioning system

Give robots human-like eyes and Al brains





GROUP INTRODUCTION

ALSONTECH

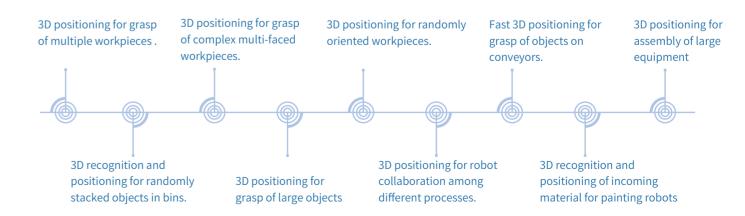
Our goal is to become a leading industrial robot 3D vision manufacturer globally. We specialize in providing mature and advanced robot 3D vision solutions for global industrial users and helping our customers create more social value.

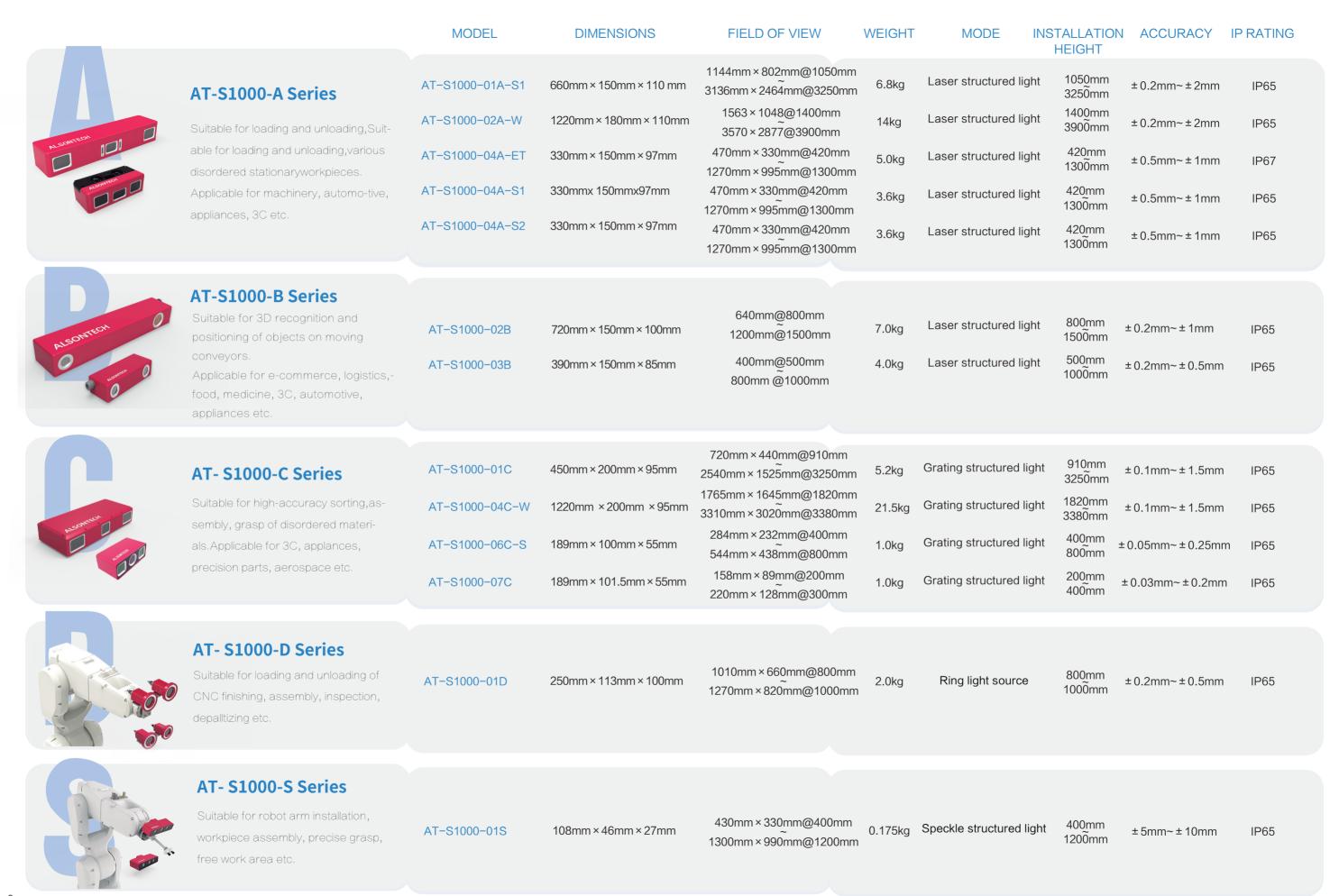
Founded in 2014, our company boasts experienced R&D engineers and professional technical service personnels in 3D vision, image algorithms, AI algorithms, optics, and robot motion algorithms. We have set up service centers all over China so as to ensure a fast response to customers' requests. Besides, we have expanded our market to Korea, Japan, Singapore, Malaysia, German, the US, etc. We have passed the ISO9001, ISO14001, and CE certification.

Based on customers' demand, we have been investing continuously in the R & D in 3D vision, AI, robot motion control and other fields. Till now, we have acquired over 70 invention patents and software copyrights and earned honors and awards in a number of industries. Our successful deliveries are applied in industrial sites of hundreds of world-renowned customers, and been recognized by many Fortune 500 clients such as Volkswagen, Nissan, CAT, JD, and Baosteel.

INTRODUCTION

Through 3D fast imaging technology, the profile of objects are scanned to form point cloud data. Then the data is analyzed and processed intelligently. All analysis, robot path intelligent planning, and automatic anti-collision technology are used to calculate the real-time coordinates and postures of the current workpiece. At last, the system sends instructions to the robot for accurate and automatic grasp.





ADVANTAGES











Quick set-up

High efficiency Friendly software interface

Affordable prices

Consummate service

FOV(Field of View):

Ultra-large FOV 2650mm*3850mm @3500mm

Fast recognition

Measurement frame rate for static object reaches 60Hz; any dynamic object at a speed less than 2000mm / s can be identified

High adaptability

Adapt to objects closely placed or with high reflection; resistant to ambient light.

Motion planning

Al analysis algorithm + optimal picking path planning + anti-collision design.

Ultra-high accuracy

The highest measurement accuracy can reach \pm 0.05mm.

Support service

Service centers in Shanghai, Guangzhou and Xi'an.

We serve global industrial customers

Our Mission: To be the world's leading provider of 3D vision solutions.

Our Vision: Promoting the Application of 3D Vision in Global Industry.

Core Values: Customer First, Pragmatism, Innovation, Cooperation

SUPPORT YOUR ROBOT

Our 3D vision positioning system is fully compatible with the communication protocol for a number of international brands of robots, secondary development not needed.

ABB, KUKA, FANUC, YASKAWA, UR, EPSON, DENSO, KAWASAKI, NACHI, HYUNDAI, STEP, EFFORT, ESTUN etc., customers can choose the robot based on their needs. (Alsontech 3D vision system is perfectly compatible with the communication protocol of manufacturers above)

























































AT-S1000-01A-S1







14001

Line laser sensor, long-distance, high-precision, large FOV, strong sunlight applicability.

- Laser light solutions, resistant to ambient light interference.
- Applicable to long-range, large FOV, large DOV scenarios.
- Applicable to identification & positioning scenarios of dark, black and highly reflective objects.
- Stable and reliable quality with high-level shockproof hardware.
- Flexible installation method, applicable to multi-directional target scanning and positioning scenarios.
- Adopting low-distortion lens and software optimization algorithm to minimize the distortion and maximize the accuracy;
- Resistant to outdoor ambient light.
- IP65 safety protection grade.
- Adjustable scanning speed



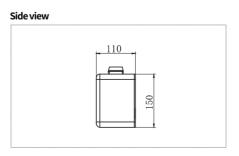
Technical parameters

Dimensions (LxWxH)	660mm×150mm×110 mm	
Weight	6.8kg	
Laser class	class 3R	
Connector (IPC)	RS-232 USB3.0	
Dimensions of package	790mm×615mm×340mm	
Weight of package	12kg	
Field of vision	1144×802@1050mm~3136×2464@3250mm	
Working distance	1050mm~3250mm	
Measuring accuracy	±0.2mm~±2mm	
Scanning framerate	1s ~ 2.5s	
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)	
Working temperature	0°C ~ 50°C	
Storage temperature	-20°C ~70°C	
Humidity	20% ~ 90% RH (No condensation)	
Protection grade	IP65	

Product Size

Front view 660

op view		
	660	=1
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- ALSONTECH		150



AT-S1000-01A-S2







Line laser sensor, long-distance, high-precision, large FOV, strong sunlight applicability.

- Laser light solutions, resistant to ambient light interference.
- Applicable to the scenarios of short range, high accuracy, small volume, and outdoor environment
- Applicable to identification & positioning scenarios of dark, black and highly reflective objects.
- Stable and reliable quality with high-level shockproof hardware.
- Flexible installation method, applicable to multi-directional target scanning and positioning scenarios.
- Adopting low-distortion lens and software optimization algorithm to minimize the distortion and maximize the accuracy;
- Resistant to outdoor ambient light.
- Applicable to 11,000LUX outdoor environment
- Intelligent image processing ability enhanced with upgraded software and hardware

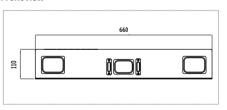


Technical parameters

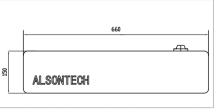
Dimensions (LxWxH)	660mm×150mm×110 mm	
Weight	6.8kg	
Laser class	class 3R	
Connector (IPC)	RS-232 USB3.0	
Dimensions of package	790mm×615mm×340mm	
Weight of package	12kg	
Field of vision	1144×802@1050mm~3136×2464@3250mm	
Working distance	1050mm~3250mm	
Measuring accuracy	±0.2mm~±2mm	
Scanning framerate	1s ~ 2.5s	
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)	
Working temperature	0°C ~ 50°C	
Storage temperature	-20°C ~70°C	
Humidity	20% ~ 90% RH (No condensation)	
Protection grade	IP65	

Product Size

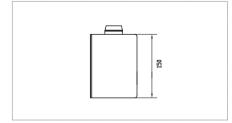
Front view



Top view



Side view



AT-S1000-02A-W







AT-S1000-04A-S1







Line laser sensor, long-distance, high-precision, large FOV, strong sunlight applicability.

- Laser line solutions, resistant to ambient light interference.
- Applicable to long-range, large FOV, large DOV scenarios.
- Applicable to identification & positioning scenarios of dark, black and highly reflective objects.
- Stable and reliable quality with high-level shockproof hardware.
- Flexible installation method, applicable to multi-directional target scanning and positioning scenarios.
- Adopting software optimization algorithm to assure the high accuracy of data collectingResistant to outdoor ambient light.
- Adjustable scanning speed



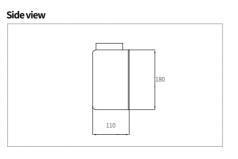
Technical parameters

Dimensions (LxWxH)	1220mm×180mm×110 mm	
Weight	14kg	
Laser class	class 3R	
Connector (IPC)	RS-232 USB3.0	
Dimensions of package	1390mm×365mm×250mm	
Weight of package	28.6kg	
Field of vision	1563×1048@1400mm~3570×2877@3900mm	
Working distance	1400mm~3900mm	
Measuring accuracy	±0.2mm~±2mm	
Scanning framerate	1s~2.5s	
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)	
Working temperature	0°C ~ 50°C	
Storage temperature	-20°C ~70°C	
Humidity	20% ~ 90% RH (No condensation)	
Protection grade	IP65	

Product Size

Front	view		
110			
		1220	





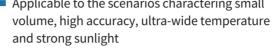
- Laser light solutions, resistant to ambient light interference.
- and strong sunlight
- Applicable to identification & positioning scenarios of dark, black and highly reflective objects.
- ing scenarios.
- Software optimization algorithm erases the accuracy.
- It can be used under strong light, stable performance under out-door sunlight of 110,000 LUX.
- IP65 safety protection grade.

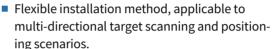
Technical parameters

Dimensions (LxWxH)	330mm×150mm×97mm	
Weight	3.6kg	
Laser class	class 3R	
Connector (IPC)	RS-232 USB3.0	
Dimensions of package	790mm×615mm×340mm	
Weight of package	6kg	
Field of vision	470×330@420mm~1270×995@1300mm	
Working distance	420mm~1300mm	
Measuring accuracy	±0.5mm~±1mm	
Scanning framerate	1s~2.5s	
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)	
Working temperature	0 °C~ 50°C	
Storage temperature	-20°C~ 70°C	
Humidity	20% ~ 90% RH (No condensation)	
Protection grade	IP65	
Illuminance	110000LUX	

Line laser sensor small size, close range, high precision, anti-glare.

■ Applicable to the scenarios charactering small



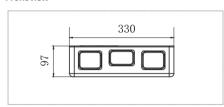


lens distortion and assures the data acquisition

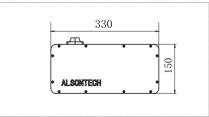


Product Size

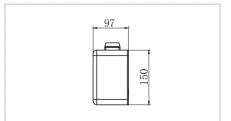
Front view



Top view



Side view



9. 10.

AT-S1000-04A-S2







Line laser sensor, intelligent image processing.

- Laser light solutions, resistant to ambient light interference.
- Applicable to the scenarios of short range, high accuracy, small volume, and outdoor environment
- Applicable to identification & positioning scenarios of dark, black and highly reflective objects.
- Flexible installation method, applicable to multi-directional target scanning and positioning scenarios.
- Software optimization algorithm erases the lens distortion and assures the data acquisition accuracy.
- It can be used under strong light, stable performance under out-door sunlight of 110,000 LUX.
- IP65 safety protection grade.

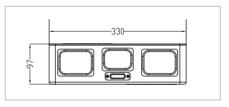


Technical parameters

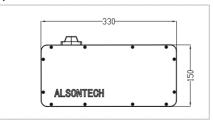
Dimensions (LxWxH)	330mm×150mm×97mm	
Weight	3.6kg	
Laser class	class 3R	
Connector (IPC)	RS-232 USB3.0	
Dimensions of package	790mm×615mm×340mm	
Weight of package	8.8kg	
Field of vision	470×330@420mm~1270×995@1300mm	
Working distance	420mm~1300mm	
Measuring accuracy	±0.5mm~±1mm	
Scanning framerate	1s~2.5s	
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)	
Working temperature	0 °C~ 50°C	
Storage temperature	-20°C~ 70°C	
Humidity	20% ~ 90% RH (No condensation)	
Protection grade	IP65	
Illuminance	110000LUX	

Product Size

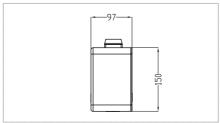
Front view



Top view



Side view



AT-S1000-04A-ET







Line laser sensor, ultra-wide temperature, high precision, strong sunlight applicability.

- Laser light solutions, resistant to ambient light interference.
- Applicable to small-body, Hight-accyracy, Ultra wide temperature, strong light scenarios.
- Applicable to identification & positioning scenarios of dark, black and highly reflective objects.
- Flexible installation method, applicable to multi-directional target scanning and positioning scenarios.
- Software optimization algorithm erases the lens distortion and assures the data acquisition accuracy.
- It can be used under strong light, stable performance under out-door sunlight of 110,000 LUX.
- Applicable to -20°C-55°C scenarios.





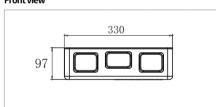


Technical parameters

Dimensions (LxWxH)	330mm×150mm×97mm
Weight	5kg
Laser class	class 3R
Connector (IPC)	RS-232 USB3.0
Dimensions of package	740mm×440mm×240mm
Weight of package	8kg
Field of vision	470×330@420mm~1270×995@1300mm
Working distance	420mm~1300mm
Measuring accuracy	±0.5mm~±1mm
Scanning framerate	1s~2.5 s
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)
Working temperature	-20°C~55°C
Storage temperature	-20°C~70°C
Humidity	20% ~ 90% RH (No condensation)
Protection grade	IP67
Illuminance	110000LUX

Product Size

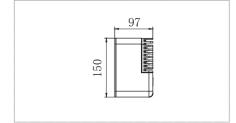
Front view



Top view



Side view



AT-S1000-02B







AT-S1000-03B







Line laser sensor, conveyor belt application, high accuracy.

- Laser light solutions, resistant to ambient light interference.
- Applicable to medium-distance, high-precision and high-speed transmission lines.scenarios.
- It is suitable for the scenes of identification,
- sorting and palletizing of items on the convey-
- Using hardware that is highly resistant to shock and vibration, stable and reliable.
- Software optimization algorithm erases the lens distortion and assures the data acquisition accuracy.
- IP65 safety protection grade.

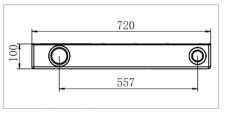


Technical parameters

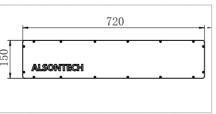
Dimensions (LxWxH)	720mm×150mm×100mm	
Weight	7kg	
Laser class	class 3R	
Connector (IPC)	RS-232 USB3.0	
Dimensions of package	790mm×760mm×305mm	
Weight of package	12kg	
Field of vision	920×240@800mm~1730×450@1500mm	
Working distance	800mm~1500mm	
Measuring accuracy	±0.2mm~±1mm	
Frame rate	300Hz	
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)	
Working temperature	0°C ~ 50°C	
Storage temperature	-20°C ~ 70°C	
Humidity	20% ~ 90% RH (No condensation)	
Protection grade	IP65	

Product Size

Front view



Top view



Side view

■ Laser light solutions, resistant to ambient light interference.

Line laser sensor, conveyor belt application, high accuracy.

- Applicable to medium-distance, high-precision and high-speed transmission lines scenarios.
- It is suitable for the scenes of identification,
- sorting and palletizing of items on the convey-
- Using hardware that is highly resistant to shock and vibration, stable and reliable.
- Software optimization algorithm erases the lens distortion and assures the data acquisition accuracy.
- IP65 safety protection grade.

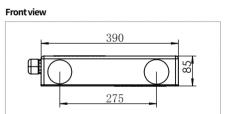




Technical parameters

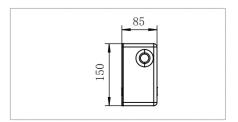
Dimensions (LxWxH)	390mm×150mm×85mm
Weight	4Kg
Laser class	class 3R
Connector (IPC)	RS-232 USB3.0
Dimensions of package	790mm×760mm×305mm
Weight of package	10kg
Field of vision	420×150@500mm~840×300@1000mm
Working distance	500mm~1000mm
Measuring accuracy	±0.2mm~±0.5mm
Frame rate	300Hz
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)
Working temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 70°C
Humidity	20% ~ 90% RH (No condensation)
Protection grade	IP65

Product Size





Side view



13. 14.

AT-S1000-01C







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Structured light sensor, applicable to high speed, large field of view.

- Grating structured light scheme, fast imaging.
- Applicable to Long distance, high speed, high precision, large field of view scenarios.
- Using hardware that is highly resistant to shock and vibration, stable and reliable.
- Applicable to identification & positioning scenarios of dark, black and highly reflective objects.
- Software optimization algorithm erases the lens distortion and assures the data acquisition accuracy.
- IP65 safety protection grade.

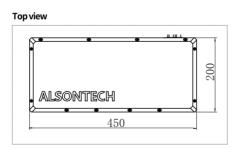


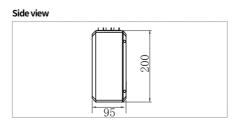
Technical parameters

Dimensions (LxWxH)	450mm×200mm×95mm	
Weight	6.7kg	
Light source	Grating structured light	
Connector (IPC)	RS-232 GigE	
Dimensions of package	790mm×760mm×305mm	
Weight of package	12.5kg	
Field of vision	720×440@910mm~2540×1525@3250mm	
Working distance	910mm~3250mm	
Measuring accuracy	±0.1mm~±1.5mm	
Scanning time	0.6s~1s	
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)	
Working temperature	0 °C~ 50°C	
Storage temperature	-20°C~70°C	
Humidity	20% ~ 90% RH (No condensation)	
Protection grade	IP65	

Product Size

Front view		
		95
	450	





AT-S1000-01C-H







Structured light sensor, applicable to high speed, large field of view, long-distance.

- Grating structured light scheme, fast imaging.
- Applicable to Long distance, high speed, high precision, large field of view scenarios.
- Applicable to recognition and positioning purposes of dark, black and highly reflective objects;
- Stable and reliable quality with high-level shockproof hardware
- Flexible installation method for multi-around scanning and positioning scenarios.
- Adopting software optimization algorithm to assure the high accuracy of data collecting
- IP65 safety protection grade.





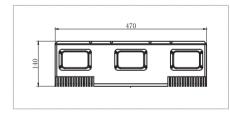


Technical parameters

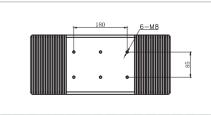
Dimensions (LxWxH)	470mm×200mm×140mm
Weight	13kg
Light source	Grating structured light
Connector (IPC)	RS-232 GigE
Dimensions of package	790mm×615mm×340mm
Weight of package	18kg
Field of vision	1325 ×915@1300mm~3565 × 1725@2500mm
Working distance	1300mm~2500mm
Measuring accuracy	±0.1mm~±1.5mm
Scanning time	0.6s~1s
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)
Working temperature	0°C~ 50°C
Storage temperature	-20°C~ 70°C
Humidity	20% ~ 90% RH (No condensation)
Protection grade	IP65

Product Size

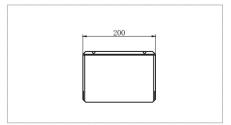
Front view



Top view



Side view



15. 16.

AT-S1000-04C-W







Structured light sensor, long distance, large field of view, high precision.

- Double grating structured light solution with swift imaging process and large FOV.
- Applicable to long range, super large FOV, large DOV and high accuracy scenarios.
- Adopting high resolution industrial camera to make sure high accuracy.
- Applicable to recognition and positioning purposes of dark, black and highly reflective objects.
- Stable and reliable quality with high-level shockproof hardware.
- Flexible installation method for multi-around scanning and positioning scenarios.
- Adopting software optimization algorithm to assure the high accuracy of data collecting.
- IP65 safety protection level.



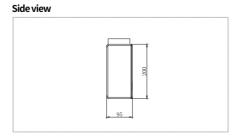
Technical parameters

Dimensions (LxWxH)	1220mm×200mm×95 mm
Weight	21.5kg
Light source	Grating structured light
Connector (IPC)	RS-232 USB3.0
Dimensions of package	1390mm×365mm×250mm
Weight of package	36.1kg
Field of vision	1765×1645@1820mm-3310×3020@3380mm
Working distance	1820mm~3380mm
Measuring accuracy	±0.1mm~±1.5mm
Scanning framerate	3s ~ 5s
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)
Working temperature	0°C ~ 50°C
Storage temperature	-20°C ~70°C
Humidity	20% ~ 90% RH (No condensation)
Protection grade	IP65

Product Size

Front view

Top view



AT-S1000-06C-S

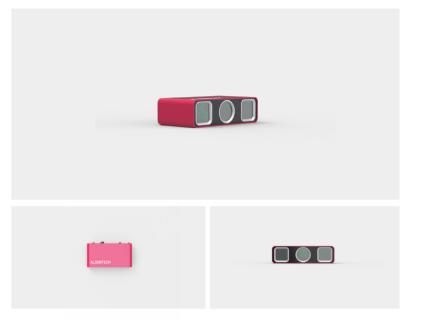






Structured light sensor, applicable to high speed, small field of view.

- Grating structured light scheme, fast imaging.
- Applicable to Close range, small field of view, high precision scenarios.
- Using hardware that is highly resistant to shock and vibration, stable and reliable.
- Applicable to identification & positioning scenarios of dark, black and highly reflective
- Small size, to meet the needs of use in a small
- Software optimization algorithm erases the lens distortion and assures the data acquisition accuracy.
- IP65 safety protection grade.

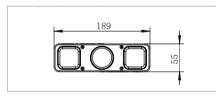


Technical parameters

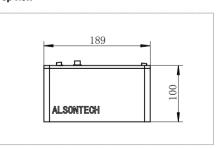
Dimensions (LxWxH)	190mm×100mm×55mm
Weight	1.0kg
J	J
Light source	Grating structured light
Connector (IPC)	RS-232 GigE
Dimensions of package	600mm×400mm×180mm
Weight of package	6kg
model	AT-S1000-06C-S (2300000px)
	AT-S1000-06C-S2 (1300000px)
Field of vision	284×232@400mm-544×438@800mm
Working distance	400mm~800mm
Measuring accuracy	±0.05mm~±0.25mm
Scanning time	0.6s~1s
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)
Working temperature	0°C~ 50°C
Storage temperature	-20°C ~ 70°C
Humidity	20% ~ 90% RH (No condensation)
Protection grade	IP65

Product Size

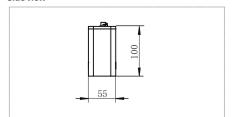
Front view



Top view







18.

AT-S1000-06C-S1

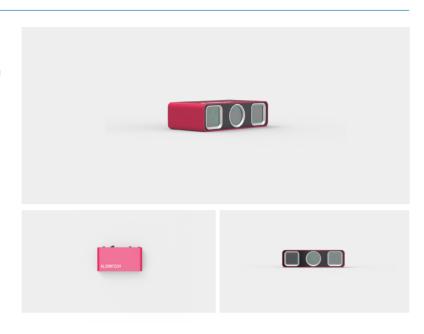






Structured light sensor, ultra-small size, close range, high speed, high precision.

- Grating structured light solution with swift imaging process.
- Applicable to short range, small FOV, and high accuracy scenarios.
- Stable and reliable quality with high-level shockproof hardware.
- Applicable to recognition & positioning scenarios of dark, black and highly reflective objects.
- Smaller dimension, less weight, and more suitable for light mechanical arm and narrow installation place.
- Flexible installation method for multi-around scanning and positioning scenarios.
- Adopting software optimization algorithm to assure the high accuracy of data collecting.



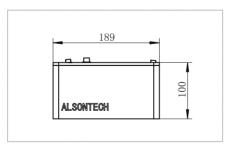
Technical parameters

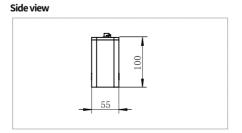
Dimensions (LxWxH)	190mm×100mm×55mm
Weight	1.0kg
Light source	Grating structured light
Connector (IPC)	RS-232 GigE
Dimensions of package	600mm×400mm×180mm
Weight of package	6kg
Field of vision	284×232@400mm-544×438@800mm
Working distance	400mm~800mm
Measuring accuracy	±0.05mm~±0.25mm
Scanning time	0.6s~1s
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)
Working temperature	0°C~ 50°C
Storage temperature	-20°C ~ 70°C
Humidity	20% ~ 90% RH (No condensation)
Protection grade	IP65

Product Size

189

Top view





AT-S1000-07C

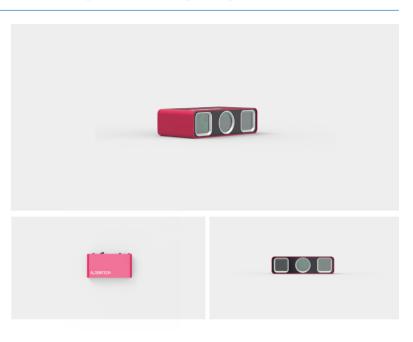






Structured light sensor, applicable to mini design, close range, high precision.

- Grating structured light solution with swift imaging process.
- Applicable to short range, small FOV, and high accuracy scenarios.
- Stable and reliable quality with high-level shockproof hardware.
- Applicable to recognition & positioning scenarios of dark, black and highly reflective objects.
- Smaller dimension, less weight, and more suitable for light mechanical arm and narrow installation place.
- Flexible installation method for multi-around scanning and positioning scenarios.
- Adopting software optimization algorithm to assure the high accuracy of data collecting.

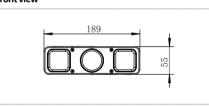


Technical parameters

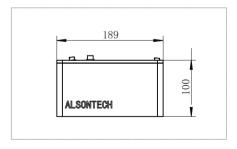
Dimensions (LxWxH)	189mm×101.5mm×55mm
Weight	1.0kg
Light source	Grating structured light
Connector (IPC)	RS232 USB3.0
Dimensions of package	600mm×400mm×180mm
Weight of package	6kg
model	AT-S1000-07C-250(Best working distance 250mm)
	AT-S1000-07C-350(Best working distance 350mm)
Field of vision	AT-S1000-07C-250 (158 ×89@200mm~220×128@300mm)
	AT-S1000-07C-350 (187×124@300mm-222×163@400mm
Working distance	200mm~400mm
Measuring accuracy	±0.03mm~±0.2mm
Scanning time	0.6s~1s
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)
Working temperature	0°C~ 50°C
Storage temperature	-20°C ~ 70°C
Humidity	20% ~ 90% RH (No condensation)
Protection grade	IP65

Product Size

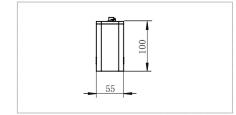
Front view



Top view



Side view



AT-S1000-01D







AT-S1000-01S



peckle structured light, ultra-small & ultra-light, short range, extremely high-speed.

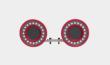




Binocular sensor, dedicated for arm loading, small size, close range, high speed.

- Small body and light weight, perfect for installation
- Perfect for the positioning of reflective workpieces with regular geometric features, especially good at positioning round holes
- Fast imaging, extremely high positioning efficiency, positioning within 1s
- Main communication protocol, no necessary second development
- Eliminate lens distortion and ensure data acquisition accuracy
- User-friendly software interface, easy to operate
- IP65 safety protection grade.







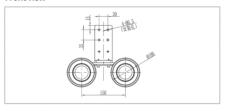
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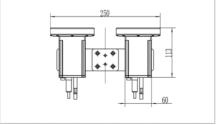
Dimensions (LxWxH)	250mm×113mm×100mm
Weight	2kg
Light source	Ring light
Connector (IPC)	RS-232 USB3.0
Dimensions of package	300mm×150mm×120mm
Weight of package	6kg
Field of vision	1010×660@800mm~1270×820@1000mm
Working distance	800mm~1000mm
Measuring accuracy	±0.2mm~±5mm
Scanning time	0.5s
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)
Working temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 70°C
Humidity	20% ~ 90% RH (No condensation)
Protection grade	IP65

Product Size

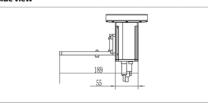
Front view

Top view





Side view



- Small body and light weight, perfect for installation at the end of the robot arm
- Real-time point cloud, rapid matching and positioning of data and design model
- Main communication protocol, no necessary second development
- Eliminate lens distortion and ensure data acquisition accuracy
- User-friendly software interface, easy to operate.
- Integrated aluminum casing, stable and reliable.
- IP65 safety protection grade.

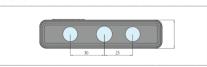


Technical parameters

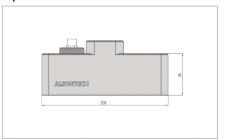
Dimensions (LxWxH)	108mm×46mm×27mm
Weight	0.175kg
Light source	Speckle structured light
Connector (IPC)	USB2.0
Dimensions of package	255mm×155mm×55mm
Weight of package	0.8kg
Field of vision	430×330@400mm~1300×990@1200mm
Working distance	400mm~1200mm
Measuring accuracy	±5mm~±10mm
Scanning framerate	25Hz
Output result	3D coordinates and posture information (X,Y,Z,a,b,c)
Working temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 70°C
Humidity	20% ~ 90% RH (No condensation)
Protection grade	IP65

Product Size

Front view



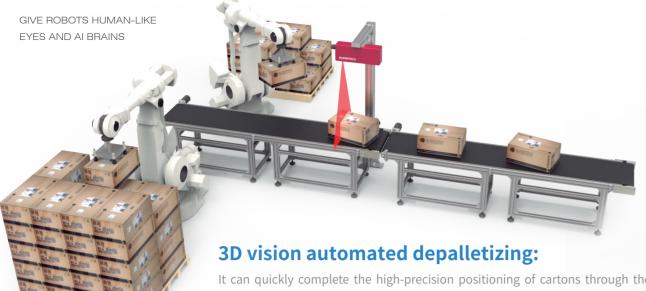
Top view



Side view



21. 22.



It can quickly complete the high-precision positioning of cartons through the robot 3D vision positioning system and guide the robot to finish automated depalletizing without teaching, thus effectively solving the problems of carton displacement, tight or slack distortion during shipping, and half-full stack in sorting. Used in warehouse systems of all kinds of industries, and logistics for medicine, food, e-commerce etc. Aimed to solve depalletizing problems for soft bags, turnover boxes and pallets.

Applications









Warehouse

Medicine

E-commerce

Logistics



It can quickly complete the positioning of parts through the robot 3D vision positioning system and guide the accurate loading of robots. Robot arm installation can expand the camera FOV through the robot arm spread, which can guarantee high precision positioning while covering a large FOV. Super adaptability, adaptable to reflective objects, highly resistant to ambient light interference, fast modeling, and efficient new product introduction.

Applications

Heavy machinery Automotive & Parts







Casting













The robot 3D vision system can locate the scattered, stacked and disordered objects and guide the robot to pick accurately; point cloud recognition, ROS anti-collision processing, and multiple picking position setting ensures an 100% picking rate. The system replaces manual work and positioning tools, and effectively solves the problems of frequent replacement of tools in today's multi-variety and small batch production pattern through flexible positioning of the objects.

Applications















Military Medicine Medicine

Food Automotive & Parts Casting Home appliances 3C





3D vision-guided AMR robot/unmanned scenarios

The AMR robot integrates the AGV and robot, which can replace the traditional AGV and conveyor line to complete the last step of loading and production, with advantages of high efficiency and flexibility. ALSONTECH MINI 3D vision system, featuring small size and light weight, is the optimal selection for the AMR robot solution. Thanks to its super high precision and fast positioning, the unmanned robot can replace manual work in complicated and high-risk scenarios.

Applications









Automatic EV charging Automatic refueling Automatic patrolling Nuclear waste recycling

23. 24.



3D vision dynamic positioning of moving packages

With the development of e-commerce, the increasing e-commerce promotion campaigns every year pose big test for the logistics industry. The logistics industry cries out for the automation reform to reduce costs and improve efficiency. The 3D vision system could position moving packages on the conveyor belt, and guide the robot to pick the moving packages, which greatly improves the work efficiency.

Applications







Industrial logistics Logistics





3D vision depalletizing of soft bags

To solve the problems of heavy manpower and sanitary security in the loading procedure, Factorie are planning to replace manual work with robots to realize automatic loading. However, as the materials are mostly packed with soft bags which are easy to deform and result in a disorganized stack shape. The 3D vision system could position the bag accurately and guide the robot to depalletize automatically without the need of teaching, effectively solving the problems of bag deformation and stack disorganization due to squeezing and displacement during transportation.

Applications



25.









Manufacturing Warehouse E-commerce



The 3D vision system can help the robot realize the flexible positioning and sorting of goods. Modelling is not required for simple geometric objects, easy and direct positioning and sorting, compatible with various SKUs.

Applications



Manufacturing



Warehouse







E-commerce





Multiple bin picking for CNC

The track link is the connecting part of the track used in construction machinery such as excavators and bulldozers and military machinery such as tanks, with a unit weight of 15-30kg. The loading cycle time is 10s/piece, which is hard for manual work. 3D vision positioning system specializes in solving the problems of positioning of disordered and stacked workpieces. One set of 3D sensor installed on a sliding rail or mounted on a robot arm could help the robot position and load the workpieces in multiple bins for CNC machine tool.

















Military Home appliances