PHOSKEY

PHOSKEY
Company Profile

Pioneer boldly, Tech for all.

2026.V2



Pioneer boldly, Tech for all.

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01 About PHOSKEY

Phoskey Precision Technology Co., Ltd. was founded in 2018. We are a manufacturing and sales enterprise with rare full- stack in- house R&D capabilities for industrial sensors and precision measuring instruments worldwide. Deeply engaged in multiple high- end manufacturing sectors, we have become a trusted partner for many leading domestic and international enterprises.





6
Office

20000 m²
Total Plant Area

300+
Total Number of Employees

02 Development Process

- Launched PhoskeyVision, a 3D industrial vision platform；
- Established partnerships with listed companies including LY iTech and Sunway, and successfully secured entry into Apple's supply chain.

- Initiated R&D projects for such products as 3D Laser Profiler, laser displacement sensors and image dimension measurement instruments.

- April 2024: Launched 3D line laser profilometers, laser displacement sensors and other related products.
- April 2025: Released the flash measuring instrument.

- Number of mass-produced product types: **Over 30**;
- Number of signed key customers: **100,000.**

Startup & Accumulation Stage

2018-2022

- Conducted R&D, mass production and sales of AOI equipment;
- Advanced the development of the 3D industrial vision platform.



Product R&D Stage

2022-2024

- Development of a precision sensor product matrix;
- Iterative upgrading of the 3D industrial vision platform.



Mass Production & Promotion Stage

2024-2025

- Initial launch, mass production and market promotion of high-precision measurement sensors.



Rapid Growth Stage

2026-2028

- Steady growth in sales revenue of core products；
- Diversification of product lines through solution-oriented sales strategies.

03 Invention Patents

High R&D Investment, Building Strong R&D Capabilities

124

Granted Patents

57

Software Copyrights

60

Invention Patents

52

Utility Model Patents

12

Design Patents







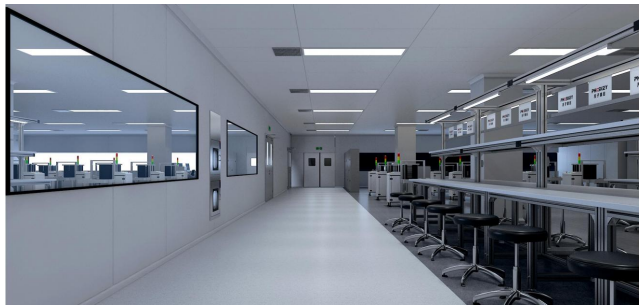
03 Huzhou Production Base

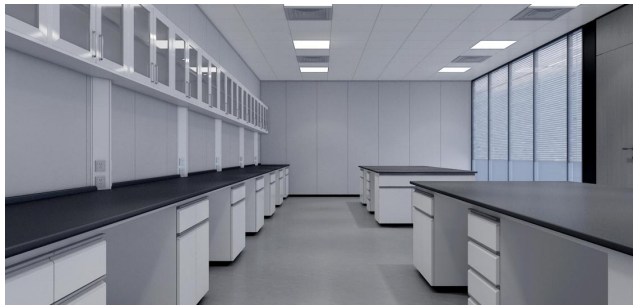
- High-end Intelligent Manufacturing Industrial Park, Wuxing District, Huzhou City

10,000 ㎡
New Standardized
Production Base

10,000 units/month
Sharp Increase in Monthly
Output of 3D Laser Profiler



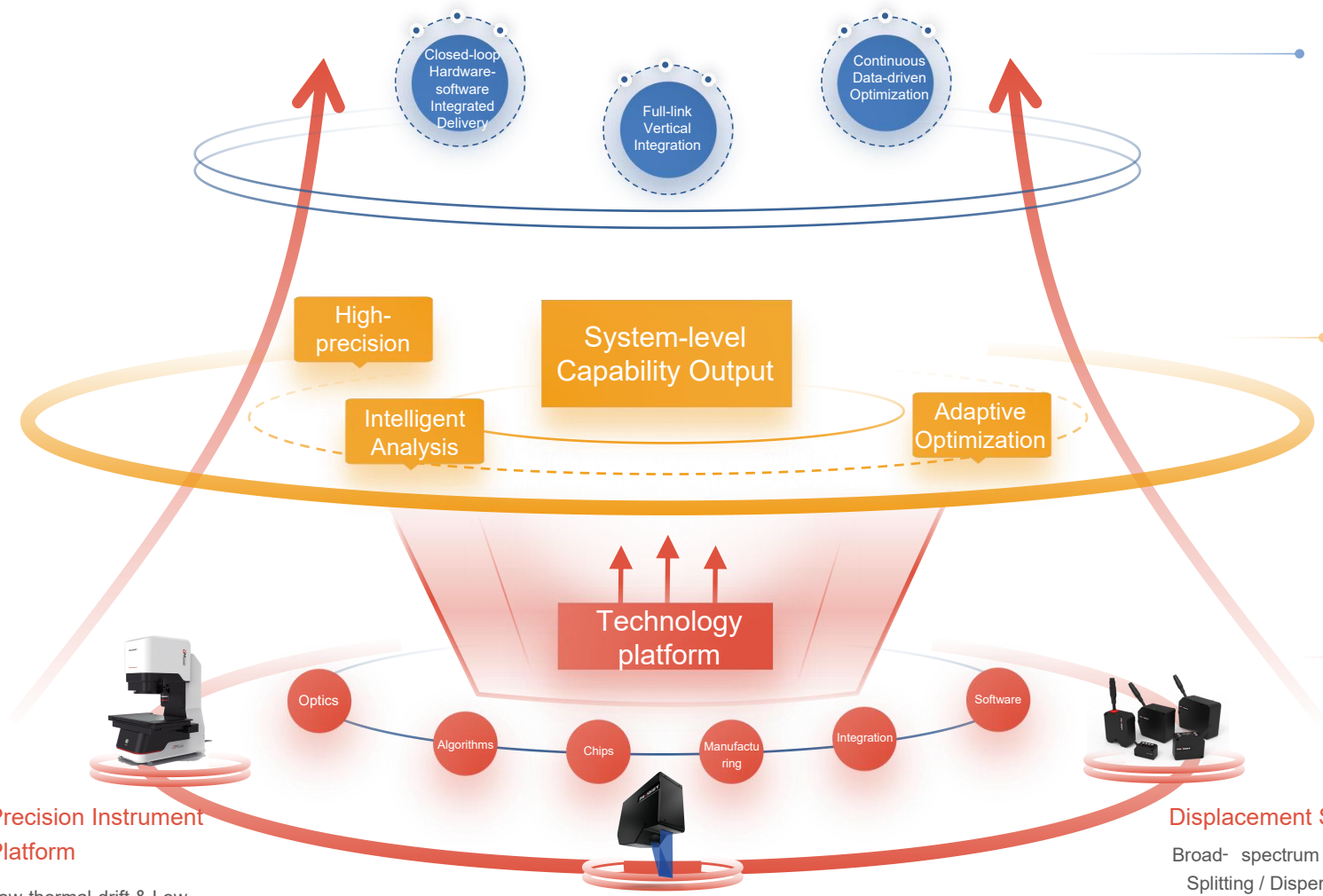








04 Full-stack Technology System



Strategic Moat

Built on full-link integration, hardware-software integrated delivery and data-driven evolution, we build an iterable and hard-to-replicate systematic moat.

Core Capability Output

The integrated technology platforms deliver three core value capabilities: high-precision measurement, intelligent analysis and adaptive optimization.

Technical Foundation

Three self-developed precision hardware & software platforms form a complete technical matrix covering imaging, 3D vision and sensing.

Precision Instrument Platform

Low-thermal-drift & Low-distortion Imaging Technology

3D Laser Profiler

Laser Speckle Suppression / 3D Reconstruction

Displacement Sensor

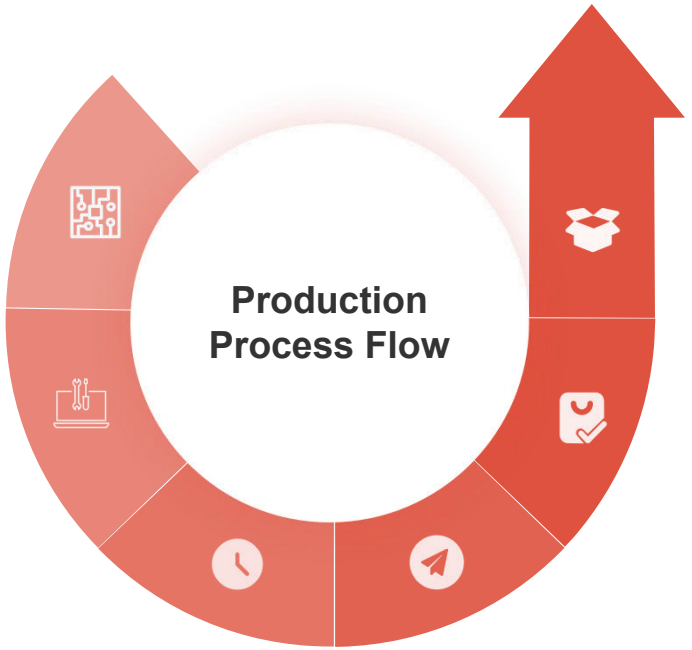
Broad- spectrum Beam Splitting / Dispersion Optimization Algorithm

05 Production Process Flow















Reliability lab

A comprehensive laboratory integrating scientific research, testing, analysis and service.

The main task is through the product or system reliability testing, evaluation and analysis, for product design and improvement to provide scientific basis.



Sand and dust test chamber



Constant temperature and humidity test chamber



High and low temperature aging box



Hot and cold impact box



Surge test machine



electrostatic test platform



Low voltage surge tester



Insulation withstand voltage tester

07 Testing and Inspection

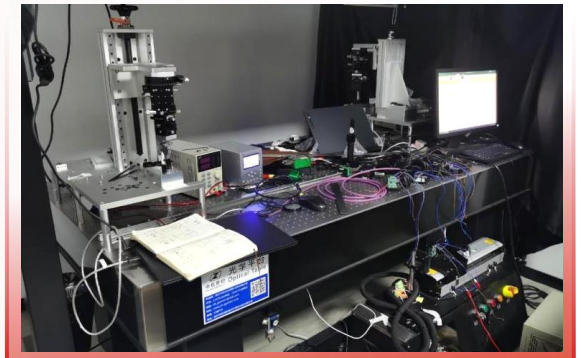
Optical platform



Point laser optical debugging station

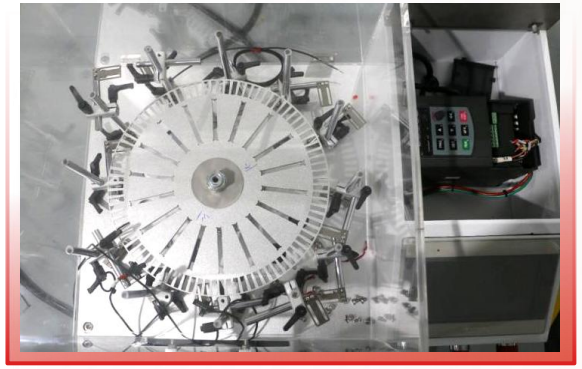


Line laser optical debugging station



optical experiment platform

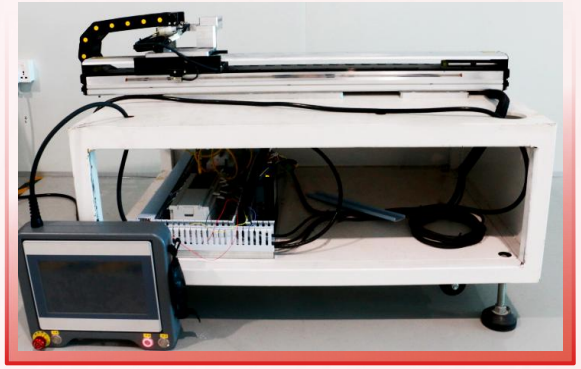
Durability test



Sensor response speed inspection machine



Wire bending tester

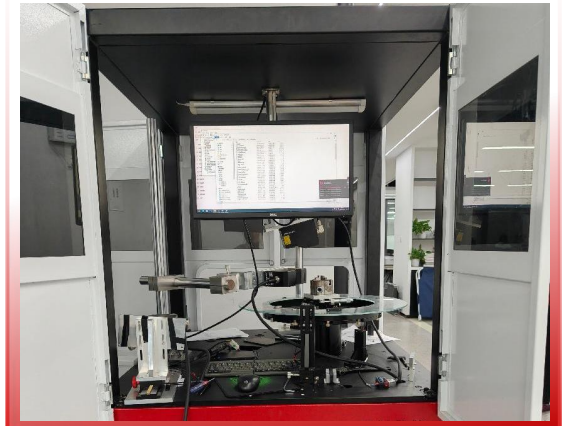


U-type drag chain testing machine

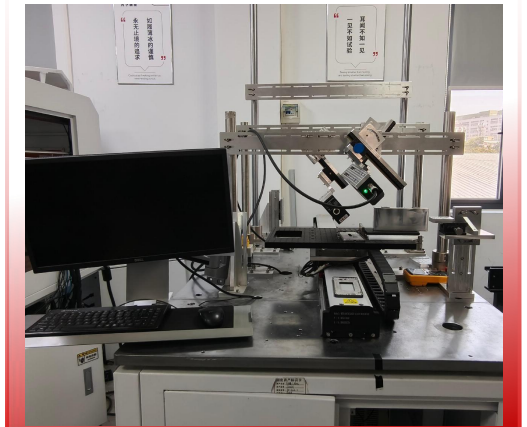
08 3D Laser Profiler Measurement Laboratory

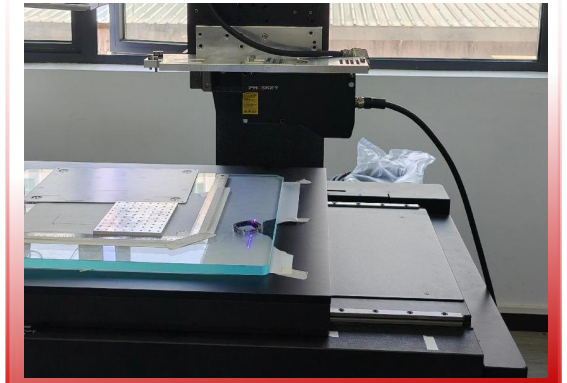
Laboratory

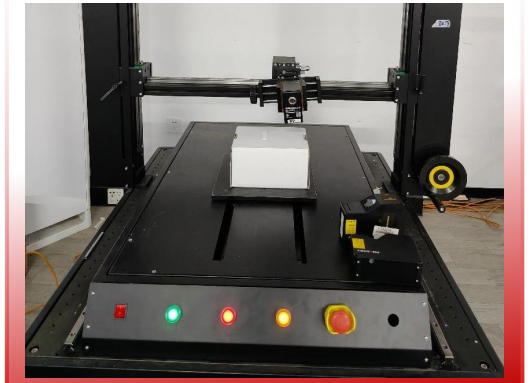
Provides professional and efficient sample testing & analysis, including 3D data acquisition, size/contour deviation inspection, surface defect screening and deformation monitoring. It offers high- precision geometric measurement and surface feature analysis to support product quality control and R&D optimization.













09 Phoskey Product Matrix

Precision Instrument Product Matrix



Image Size Measurement Instrument



3D Video camera

Precision Measurement Sensor Matrix



3D Laser Profiler



Displacement measuring sensor



Factory automation sensor



Correction controller



Correction sensor



Correction driver



Correction framework

Web Guiding Systems



Tension sensor



Tension amplifier



Tension controller

Web Tension system

09 Precision Instruments



QMX Series



Series_High-precision

- Measurement accuracy up to ±1μm, repeatability up to ±0.5μm;
- Three models available, optionally equipped with chromatic confocal height measurement or 3D line scanning.

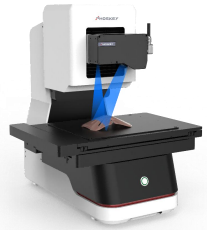
QM Series



Wide Field of View

- Small Field of View with High Precision, measurement accuracy up to ±0.3 μm, repeatability up to ±0.1 μm.
- Two models available, optionally equipped with chromatic confocal height measurement or 3D line scanning.

QML Series



3D line scanning

- Repeatability: 0.4 μm; High-Speed Scanning;
- Optional 3D cameras with varying ranges for diverse inspection tasks.

10 3D Measurement Products



9000 Series

3D Laser Profiler

- Max. repeatability 0.15μm, Max. linearity ±0.025% of F.S.;
- Sampling speed 666-141000Hz, X-Axis profile points up to 8,000 points.

8000 Series

3D Laser Profiler

- Max. repeatability 0.3μm, Max. linearity ±0.05% of F.S.;
- Sampling speed 3000-40000Hz, X-Axis profile points up to 4096 points.

7000 Series

3D Laser Profiler

- Max. repeatability 0.6μm, Max. linearity ±0.08% of F.S.;
- Sampling speed 1000-20000Hz, X-Axis profile points up to 3200 points.

11 Displacement Measurement Products



CD-5000 Series



Confocal Displacement Sensor

- Ultra-High sampling speed 260KHz， Max. linearity ±0.35μm；
- Adapts to inspection requirements for a wide range of materials, including rough surfaces, black rubber, mirrored surfaces, glass, gel materials, etc.

PDH Series



Laser Displacement Sensor

- Max. repeatability 0.005μm，Max. linearity ±0.05% F.S.;
- Max. sampling speed 260KHz. Multiple types: focused spot, wide spot, specular reflection, etc.

PDM Series



Laser Displacement Sensor

- Max. repeatability 0.5μm，Max. Linearity ±0.05% F.S.;
- Max. sampling speed 4KHz. Equipped with an high-performance OLED display panel

PDL Series



Laser Displacement Sensor

- Max. repeatability 1μm，Max. linearity ±0.1% F.S.;
- Max. sampling speed 2KHz. Compact design for confined spaces.

12 Web Guiding Systems



Edge Measurement Sensor



- High-precision visible-light through- beam web guide sensor with CMOS components for accurate measurement.

Web Guide Controller



- Full- touchscreen, network- enabled high- precision DSP control system. High- performance instrument for automatic position control of strip edges, centerlines and color mark lines.

Web Guide Actuator



- Its running parameters (acceleration, travel, home position) are fully controlled by the web guide controller without external switches. Imported DC servo motor optional, featuring smooth output and low noise.

Web Guide Frame



- Consists of servo actuator and guiding mechanism. The mechanism moves along a defined path and adjusts strip lateral position via lateral friction and cross- section tension distribution.

14 FA Sensors



PW/PX Series

Colour Sensor



SG□ Series

Safety Light Curtain



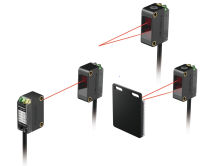
SDL-□ Series

Safety Interlock Switches



PG6/PG2/PEX/PK Series

Photoelectric Sensor



FS-G40/FS-G10/FU Series

Optical Fiber Sensor



EC/ES/EL Series

Proximity Sensor

15 New GL-9000 Series



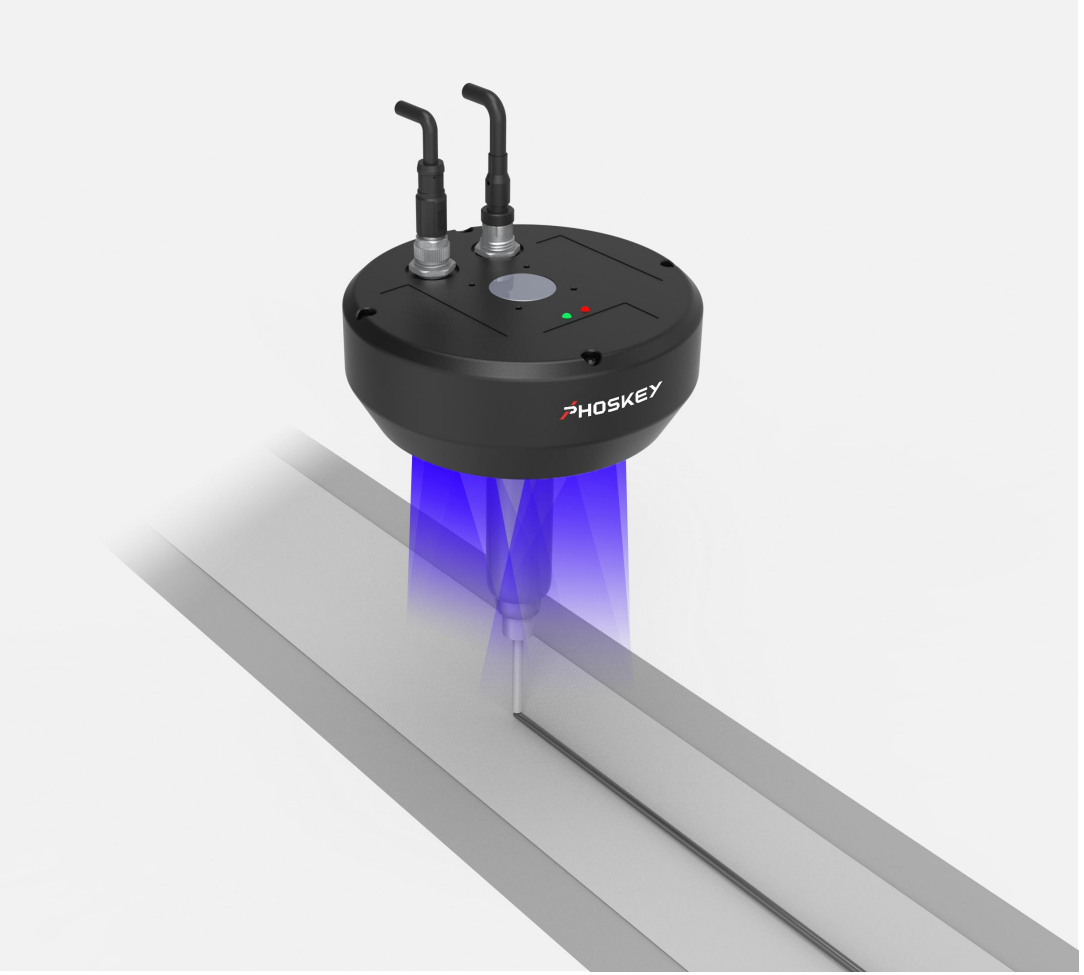
GL-9000 Series

3D Laser Profiler

8000 piont | 141KHz | ROI acceleration | HDR

Model name			GL-9020	GL-9040	GL-9080
Reference Distance			20mm	40mm	80mm
Measurement range	Z-axis (height)	Range(F.S.)	5.4mm (20±2.7mm)	12.8mm (40±6.4mm)	27mm (80±13.5mm)
		Near-Reference-Far	17.3-20-22.7mm	33.6-40-46.4mm	66.5-80-93.5mm
	X-axis (width)	Near-Reference-Far	13.3-14-14.7mm	22.2-24-25.8mm	35-40-45mm
Repeatability		Z-axis (height)	0.15μm	0.2μm	0.25μm
		X-axis (width)	0.15μm	0.25μm	0.4μm
Linearity		Z-axis (height)	±0.025% of F.S. (±0.005%) ±1.35μm	±0.02% of F.S. (±0.004%） ±2.56μm	±0.015% of F.S. (±0.003%） ±4.05μm
Profile data interval		X-axis (width)	2μm (1μm-2μm)	3μm (2μm-4μm)	5μm (4μm-5μm)
Profile data count				8000	
Sampling cycle((Under full X-axis range)				666-141000Hz	

16 New GL-6120F Series



GL-6120F Series

3D Laser Profiler

- Comprehensive adhesive-bead quality control. On-line tracking inspects width, height, position, volume and continuity to improve inspection performance.
- Detection accuracy up to 0.1 mm with scanning rate of 900 frames per second.

High-precision | High-speed | 360° Full-coverage | Intelligent Adaptation

Model name	GL-6120F-22	GL-6120F-48
Mounting Hole Diameter	22mm	48mm
Reference Distance	118mm	120mm
Z-axis Measurement Range	68mm 118mm 168mm	70mm 120mm 170mm
X-axis Scanning Width	53.9mm 85mm 115.7mm	
Output Image	>800 piont	
Scanning Frequency	>900Hz	

17 Partners


CATL
宁德时代
BYD
FOXCONN
大族激光
HAN'S LASER
Hymson
海目星激光
TCL
UW
UNITED WINNERS
联赢激光
ANDA
Automatic
荣旗
RONG CHEER
N-CUBE
智立方
LUXSHARE ICT
立讯精密
长盈精密
EVERWIN PRECISION
exact
S·C
安洁科技
ANJIE TECHNOLOGY
三环集团
SINCE 1970
LENS
蓝思科技股份有限公司
Lens Technology .Co., LTD.
BOZHON 博众
flex
HUAWEI
DELL
科瑞技术
CETC
中国电科
TOPRO
SECOND 世椿
Goertek
领益智造
LY iTECH
强瑞技术
QIANGRUI TECHNOLOGY
SIEMENS
vivo
众山精密
Microsoft
信维通信
KERSEN
科森科技
CORNING
康宁
CHR
HANGKE
CYG长园
oppo

PHOSKEY

THANK YOU