费米视觉
Machine Vision Solutions

Metrology-Level Accuracy

Massive Data Processing Power

Efficient CAD & Data Importing

Industry Leader in CV Measurement Speed

Product Series

A Series	Specializing in high-speed full-range sizes splice measuring instrument
B Series	Expert in massive micro-size precision measurement technology
F Series	Leading the next generation of vision measurement efficiency

F Series: Technical Specifications of Fixed-Bridge Measurement Instruments

Product Positioning	The F Series sets the benchmark for next-generation efficiency with its high-speed stroboscopic measurement capabilities, ideal for rapid throughput environments.	
Product Applications	Satisfies the full-range measurement requirements for high-density, high-precision products, including Mini-LEDs, IC carrier boards, photovoltaic components, and new energy products, and more.	
Main Features	- Ultra-high-speed precision fixed-bridge image measurement system - Dual-axial linear motors with high-precision ground-grade silent guide rails and sliders, ensuring efficiency, precision, safety, and stability - Precision marble base and crossbeam mechanism designed to minimize dynamic errors in motion measurement mode - Advanced stroboscopic synchronous electric control system - Optional sensors available, including CWS confocal white light sensors and laser sensors, enabling precise height difference and flatness measurements - Equipped with FlashPro software with comprehensive metrological capabilities, fully automated programming functions, offline programming, SPC, and more	
Technical Parameters	Image Sensor	Global Industrial Image Sensor
	Z-axis Motor	Panasonic AC Servo Motor
	XY-axis Motors	HIWIN Linear Motors
	Guide Rails	Japan THK Precision Silent Guide Rails
	Gratings	UK Renishaw High-resolution Surface Mounted Gratings
System Requirements	Temperature; Humidity Requirement	Temperature of 20 - 25℃; humidity of 45% - 60%
	Voltage; Frequency	220V ± 10%; 50/60Hz

Model/Specifications

Model	Measuring Range (mm) X*Y*Z	Positioning Accuracy	Linear Accuracy (μm)	Measuring Speed (mm/s)	Platform Load Capacity (kg)	Equipment Weight (kg)	Overall Dimensions (mm)
F5	500x400x100	1μm	3+(L/200)	200	20	1500	1200x1450x1600
F7	600x700x100	1μm	3+(L/200)	200	20	1750	1100x1900x1600
F8	700x800x100	1μm	3+(L/200)	200	20	1850	1200x2000x1600

The ultra-high-speed stroboscopic flying-shooting measuring instrument is built on a professionally designed precision optical image measurement platform with low dynamic errors. It integrates photoelectric signal synchronization technology, advanced image algorithms, and parallel processing capabilities for large volumes of data, enabling metrology-grade high-speed scanning. Additionally, it features a CAD fully-automatic programming module, significantly enhancing the programming, measurement, and computation efficiency for large-scale data objects.

B Series: Technical Specifications of Movable-Bridge Stroboscopic Measurement Instrument

Product Positioning	Engineered for instantaneous measurements of a large number of micron-sized features. The B Series delivers unparalleled accuracy in the inspection of fine-scale components.	
Product Applications	Satisfies the full-range measurement requirements for high-density, high-precision products, including silicon-based carrier boards, micro-sized holes, line widths/spacings, Mini-LEDs, IC carrier boards, and more.	
Main Features	- Ultra-high-speed precision fixed-bridge image measurement system - Large target surface and high-magnification telecentric lens - Dual-axis linear motion system, featuring imported linear motors, high-precision ground-grade silent guide rails, and sliders - Precision marble base and crossbeam mechanism, minimizing dynamic errors in motion measurement modes - Advanced stroboscopic synchronous electric control system - Equipped with FlashPro software with comprehensive metrological capabilities, fully automated programming functions, offline programming, SPC, and more	
Technical Parameters	Image Sensor	Global Industrial Image Sensor
	Z-axis Motor	Panasonic AC Servo Motor
	XY-axis Motors	HIWIN Linear Motors
	Guide Rails	Japan THK Precision Silent Guide Rails
	Gratings	UK Renishaw High-resolution Surface Mounted Gratings
System Requirements	Temperature; Humidity Requirement	Temperature of 20 - 25℃; humidity of 45% - 60%
	Voltage; Frequency	220V ± 10%; 50/60Hz

Model/Specifications

Model	Measuring Range (mm) X*Y*Z	Positioning Accuracy	Linear Accuracy (μm)	Measuring Speed (mm/s)	Platform Load Capacity (kg)	Equipment Weight (kg)	Overall Dimensions (mm)
B5	500x400*150	1μm	3+(L/200)	200	20	1600	1200x1450x1600
B7	600x700x100	1μm	3+(L/200)	200	20	1850	1200x1800x1600
B8	700x800x100	1μm	3+(L/200)	200	20	1950	1300x2000x1600

The movable bridge stroboscopic flying-shooting measuring instrument is built on a professionally designed precision optical image measurement platform with low dynamic error. It integrates photoelectric signal synchronization technology, advanced image algorithms, and parallel processing capabilities for big data. This system enables high-speed scanning and measurement of stationary precision products. The hyper-threading computing module significantly enhances the measurement and computation efficiency for large-scale data objects.

A Series: Technical Specifications of Fixed-Bridge Measurement Instruments

Product Positioning	Designed for high-speed applications requiring full-range image scanning and stitching, the A Series offers unmatched precision for large-scale inspections.	
Product Applications	Specifically designed for products requiring full-range size measurements	
Main Features	- Ultra-high-speed precision fixed bridge image measurement system - Dual-axis, fully imported linear motors, high-precision ground-grade silent guide rails, and sliders, ensuring efficiency, precision, safety, and stability - High-precision rectangular coordinate measurement system constructed with marble base, crossbeam, and columns - Supports a flexible combination of multiple lenses and cameras, addressing the combined requirements of efficiency and precision in various measurement environments - Optionally equipped with CWS confocal white light sensors and laser sensors for measuring height differences and flatness - Equipped with FlashPro software with comprehensive metrological capabilities, fully automated programming functions, offline programming, SPC, and more	
Technical Parameters	Image Sensor	Global Industrial Image Sensor
	Z-axis Motor	Panasonic AC Servo Motor
	XY-axis Motors	HIWIN Linear Motors
	Guide Rails	Japan THK Precision Silent Guide Rails
	Gratings	UK Renishaw High-resolution Surface Mounted Gratings
System Requirements	Temperature; Humidity Requirement	Temperature of 20 - 25℃;; humidity of 45% - 60%
	Voltage; Frequency	220V ± 10%; 50/60Hz

Model/Specifications

Model	Measuring Range (mm) X*Y*Z	Positioning Accuracy	Linear Accuracy (μm)	Measuring Speed (mm/s)	Platform Load Capacity (kg)	Equipment Weight (kg)	Overall Dimensions (mm)
A5	500x400*100	1μm	3+(L/200)	300	20	1500	1200x1450x1600
A7	600x700x100	1μm	3+(L/200)	300	20	1750	1100x1900x1600
A8	700x800x100	1μm	3+(L/200)	300	20	1850	1200x2000x1600

The full-range size rapid measuring instrument is an optical measuring tool designed for precision inspection. It is capable of performing size measurements and data analysis on a wide range of objects, including PCBs, FPCs, HDI boards, IC carrier boards, and mass-produced 3C products. By utilizing fully automated CAD-based programming, errors caused by omissions or incorrect settings due to frequent input of upper and lower tolerances are minimized. This improves operational programming efficiency and simplifies the process for rapid measurements. Additionally, the patented automatic glass pressing plate effectively reduces Abbe errors, which can be caused by a variety of factors.

FlashPro

机器视觉测量系统

Product & Company Highlights

05 Veteran R&D Team -
With 20+ years in advanced metrology R&D technologies in China and US

04 Leading Technological Advancements -
Advanced optical-mechanical-electrical integration engineering, with industry leading software algorithms

03 Authoritative Metrological Certification -
The metrological algorithms have been certified by the PTB in Germany

02 Intellectual Property -
Possessing full ownership of intellectual property rights (IPRs) for both hardware and software

01 Ultimate Comprehensive Capabilities -
Concurrent processing of large data volumes with precision and high efficiency at the metrology level

Company Profile

Shenzhen Feimi Vision Co., Ltd. is a high-tech enterprise specializing in the development of proprietary machine vision measurement systems, holding full intellectual property rights (IPRs) over key innovations. Committed to designing industry-leading solutions, our product suite delivers metrology-grade accuracy, real-time processing speed, and customized industrial solutions to meet the specific needs of our clients

The product portfolio includes a diverse array of cutting-edge instruments, combining metrology-grade accuracy and real-time reading speeds, such as:

- B Series: Massive micro-size targets measurement devices
- F Series: Strobe fly-through measurement instruments
- A Series: High-efficiency full-image scanning and stitching measurement instruments
- U Series: 2.5D general-purpose machine vision inspection instruments
- One-touch quick measurement instruments

Main product applications - Our instruments allow for comprehensive inspection and measurement of high-density and high-precision products, including:

- Silicon-based carrier boards
- micro-holes
- line widths and spacings
- Mini LEDs
- IC carrier boards
- photovoltaics
- new energy industry components.

Each series of inspection instruments has been meticulously designed to achieve superior levels of precision and speed. This positions the company's offerings at the forefront of the industry, enabling them to effectively compete with imported instruments.

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