



Shenzhen Company

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Hongkong Company

Seamark Hongkong Limited

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The company reserves the final interpretation right.

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Industrial CT X-Ray Inspection Equipment
Automated Optical Inspection Equipment
X-Ray Counting Equipment
Intelligent BGA Rework Equipment

One-stop Solution

SHENZHEN ZHUOMAO TECHNOLOGY CO., LTD.
SEAMARK HONGKONG LIMITED

卓尔不凡 耕深业茂

Seamark

ZM

X-Ray Counting Machine/X-Ray Inspection Equipment
Multifunctional BGA Rework Equipment
Lithium Battery Inspection Equipment
3D/CT Inspection Equipment
One-stop Service



Company Profile

Shenzhen Zhuomao Technology Co., Ltd. (also known as "Seamark") was established in 2005 and is a national high-tech enterprise that integrates research and development, production, and sales. It is also a national key "little giant" enterprise specializing in precision, innovation, and novelty. The company has been deeply involved in the industry for more than 20 years and has been committed to providing advanced Industrial CT, X-Ray Inspection Equipment, AOI/SPI, X-Ray Counting Machine, and Intelligent BGA Rework Equipment for industries such as electronic manufacturing, integrated circuits, semiconductors, new energy batteries, and industrial castings.

The company adheres to independent innovation of core technologies, has a professional R&D team, has established a postdoctoral innovation practice base, and has carried out industry university research technology cooperation with research institutions such as Tsinghua University, the Institute of Advanced Technology of the Chinese Academy of Sciences, and Shenzhen University. Currently, it has obtained more than 300 patents and qualification certificates, undertaken the research and development of multiple national key special projects, and has been approved as the Engineering Technology Research Center for Industrial X-ray Intelligent Inspection Equipment in Guangdong Province.

Zhuomao Technology is headquartered in Shenzhen and has established branches and offices in Beijing, Suzhou, Xiangyang, Tianjin, Chongqing, Xi'an, Taiwan, Bangkok and other places, with a complete after-sales service system. Our products cover more than 100 countries and regions worldwide, and have become the preferred trusted brand for over 100,000 users worldwide!



Milestones

Cooperative Partner

2025

- In 2025 Zhuomao Technology celebrates its 20th anniversary
- In 2025 won the Guangdong Industrial X-ray Intelligent Inspection Equipment Engineering Technology Research Center

2024

- In November 2024, a joint laboratory was established with the Shenzhen Advanced Institute of the Chinese Academy of Sciences
- Pass the mid-term acceptance and results release of the national key R&D project in November 2024
- The East China (Suzhou) Exhibition Center will be officially opened in July 2024
- In June 2024, the company will be awarded the title of "Little Giant" with continued financial support for specialized, sophisticated and innovative enterprises
- In March 2023, the company will expand its scale and move from Fuhai Huaide Cuihai Industrial Park to Buildings 10 and 11 of Fuyong Longwangmiao Industrial Park.
- In February 2023, it was awarded the Postdoctoral Innovation and Practice Base by the Shenzhen Human Resources and Social Security Bureau

2022

- In 2022, awarded as a national-level "Little Giant" enterprise by the Ministry of Industry and Information Technology
- In December 2021, won the "Shenzhen Advanced Manufacturing Intelligent Equipment Field Pioneering Bull Award" issued by Shenzhen Electronic Equipment Industry Association for the Socialist Pilot Demonstration Zone
- In December 2021, the industrial CT/3D X-ray inspection system was awarded the "China SMT Innovation Achievement Award" by the Guangdong Institute of Electronics

2020

- In January 2020, Zhuomao was awarded the "Shenzhen Equipment Industry-Leading Enterprise in SMT Segmentation" by Shenzhen Electronic Equipment Industry Association
- In January 2020, the independently developed X-ray Inline Counting Machine was awarded the "China SMT Innovation Achievement Award" by the Guangdong Electronics Society

2019

- In 2019 officially became a qualified supplier of Foxconn
- In 2019 officially became a qualified supplier of Huawei
- In July 2019 Strategic cooperation with Henan University of Science and Technology to create a post-doctoral workstation
- In February 2019, Hubei Zhuomao Intelligent Technology Co., Ltd. was established and formally settled in Hubei Dongjin New District Intelligent Equipment High-tech Industrial Park and put into production
- In January 2019 passed the intellectual property management system certification

2018

- In 2018 officially became a qualified supplier of ZTE
- In December 2018, Mr. Wen Quan, the general manager of Zhuomao, was awarded the "Leading Talent" Award for the 40th Anniversary of the Reform and Opening-up by the Shenzhen Electronic Equipment Industry Association
- In December 2018, the 3D X-ray Inspection Equipment was awarded the "China SMT Innovation Achievement Award" by the Guangdong Electronics Society
- In September 2018, the Micro-focus X-ray Inspection Equipment was granted the exemption management certification by Guangdong Environmental Protection Department
- In October 2017, Zhuomao won the "2017 Guangdong's most competitive enterprise" award

2016

- In October 2016, the laser screen repair equipment won the key support project of "SME Technology Innovation" by Baoan Science and Technology Bureau
- In December 2015, Zhuomao was awarded the title of "2015 Shenzhen Enterprise Cultural Construction Excellent Unit" by the Shenzhen Enterprise Federation
- In November 2015, the general manager Wen Quan was awarded the title of "Top Ten Outstanding Young Persons in Xixiang, Bao'an District"
- In September 2015, the whole relocation from Xixiang Sanwei Donghua Industrial Park to the 10th building of Fuyong Huaide Cuihai Industrial Park, and held the "10 Anniversary Celebration" event
- In June 2015, Zhuomao won the "2014 Guangdong Integrity Demonstration Enterprise" certificate issued by the Guangdong Federation of Enterprises

2014

- In October 2014, Zhuomao won the title of "2014 Deloitte China-Shenzhen High-Tech, High-Growth Top 20 Enterprises"
- In August 2014, it won the "2014 Electronic Equipment Industry Design Red Sail Award" issued by the China Electronic Equipment Industry Expo Organizing Committee

- In August 2013, the general manager Wen Quan was awarded the title of "Outstanding Entrepreneur of China Electronics Manufacturing Industry" by the Guangdong Electronics Society

- In August 2013, Zhuomao won the "China Electronic Equipment Most Innovative Ability Award" issued by the China Electronic Equipment Industry Expo Organizing Committee

- In May 2013, it obtained the "Integrity AAA" certification from the China SME Association and the Ministry of Commerce

- In January 2013, Zhuomao became a qualified supplier of "Epson Technology (Shenzhen) Co., Ltd."

- In January 2013, the first fully automatic BGA Reballing machine in China was born and successfully applied for invention patent and obtained authorization

- In August 2012, Suzhou Zhuomao Optoelectronics Technology Co., Ltd. was established

- In December 2011, Zhuomao won the title of the ninth "Most Potential Shenzhen Famous Brand Enterprise"

- In October 2011, Zhuomao obtained the certificate of "National High-tech Enterprise"

- In March 2011, Zhuomao became a qualified supplier of "Chongqing Space Rocket (Bashan Instrument)"

2013

- In July 2010, Zhuomao registered the trademark "Seamark ZM", and officially became a strategic partner with DIC Corporation of Japan

- In March 2010, it was all selected as a qualified supplier by well-known domestic brands such as Skyworth, Changhong, and Hisense

- In January 2010, it was awarded the title of "2009 Civilized and Honest Business Household" by the Shenzhen Industrial and Commercial Bureau

- In Dec. 2009, Zhuomao was recognized as "Shenzhen Dual Software Enterprise"

- In November 2009, Zhuomao passed ISO9001: 2008 quality management system certification

- In October 2009, Zhuomao Technology (Hong Kong) Co., Ltd. was established

- In July 2008, Zhuomao successfully passed the international CE certification

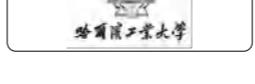
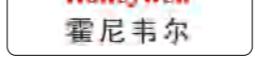
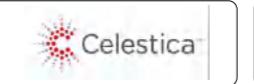
- In March 2008, Zhuomao established a cooperative relationship with Shenzhen Graduate School of Tsinghua University

- In December 2007, Zhuomao became the designated supplier of Taiwan Gigabyte Technology Rework Equipment

- In April 2006, Zhuomao participated in Nepcon for the first time, and cooperated with well-known IT companies such as Lenovo, Tongfang, TCL, etc.

- In March 2006, the first optical alignment rework station ZM-R680C entered the Tianjin market, Tianjin Daisuke Electronics Co., Ltd. (Korean-owned enterprise)

- In 2005, Shenzhen Zhuomao Technology Co., Ltd. was formally established



The ranking is in no particular order. Thank you for your support !

Honors & Qualifications

Honors



Qualifications

Trademark Registration



Software Copyright



Patent



System Certification



Corporate Philosophy



Vision

Build a leading enterprise in intelligent equipment with a century-long legacy

Mission

Innovate inspection technologies to empower the intelligent manufacturing industry

Market Culture
Creating all possibilities

Brand Culture
Perfection

Core Values

Customer First
Collaborative Innovation
Integrity and Win-Win
Pursuit of Excellence

Talent Culture
Using employees with
moral integrity and ability

Management Culture
Focus on the strugglers

Strong sense of responsibility
Strong learning ability

《《《 Our Professionalism 》》》

Zhuoma Technology was established on May 20, 2005

Strong execution

Excellent professionalism



X7600B

X-Ray Offline Inspection Equipment

X7600B is a powerful high-end precision micro-focus X-ray intelligent inspection equipment, equipped with innovative self-developed intelligent inspection software and a new generation of image algorithms. It adopts a high-voltage X-ray tube design with strong penetration and high image quality. It has a 2.5D imaging function and can achieve 360-degree, all-round observation of product defects. It is widely used in printed circuit boards (PCBs), microchips (ICs), mobile phones, power devices and other product inspections.

Product Features

Wider Application Range: High voltage, high resolution, high magnification, to obtain the best image

2.5D Imaging: Imaging is more three-dimensional, solving the problem of defect location in the spatial dimension

Intelligent Inspection Software: Equipped with innovative self-developed intelligent inspection software

Image Enhancement: New image enhancement processing and preset filter algorithm

Full-angle Inspection: Tilt/360° rotation, convenient for all-round observation of product defects

CNC Mode: Free point and matrix, used in batch inspection scenarios, automatically generate inspection reports

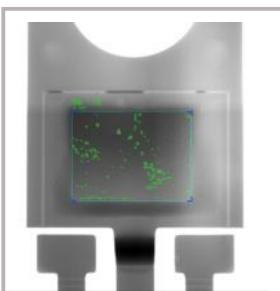
Multiple Safety Protection: Real-time monitoring of radiation value, safety interlock, automatic shutdown of radiation source in idle state and other multiple protections

Inspection Algorithm Customization: AI intelligent inspection algorithm can be customized according to actual needs of users

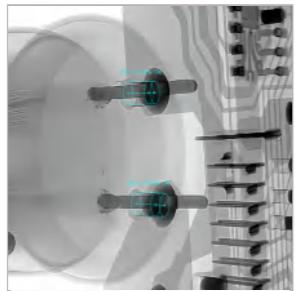
Scan Code Traceability: Barcode information is associated with inspection results for traceability verification (optional)

Image Stitching Function: (optional)

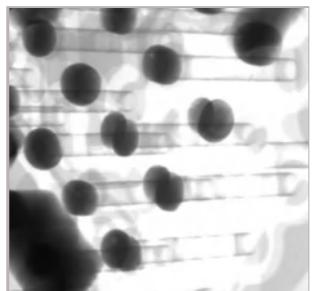
Application Cases



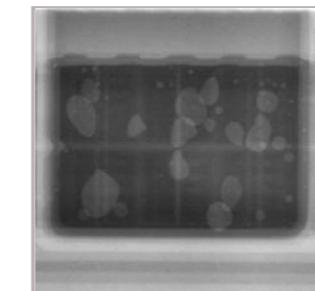
MOS Tube Voids Inspection



DIP Tin Creep Height Inspection



Pillow Effect



LED Void Inspection



Product Parameters

Model No.	X7600B
X-Ray Tube	X-Ray Tube Type: Reflective sealed micro-focus X-ray source
	Tube Voltage: 40-130KV
	Tube Current: 10-300 μA
	Maximum Output Power: 39W
	Micro Focus Size: 5μm (at 4W)-40μm
Flat Panel Detector	Flat Panel Type: Amorphous Silicon Flat Panel Detector
	Pixel Matrix: 1536x1536
	Field of View: 130mmx130mm
	Resolution: 5.5Lp/mm
	Image Frame Rate (1x1): 20fps
Equipment Specifications	AD Conversion Digits: 16bits
	Dimensions: L1700mmxW1770mmxH1800mm
	Input Power: 220V 10A 50-60HZ
	Platform Size: 510mm×510mm
	Operation System: Industrial Computer Win10 64bits
	Net Weight: 2050KG

X1200

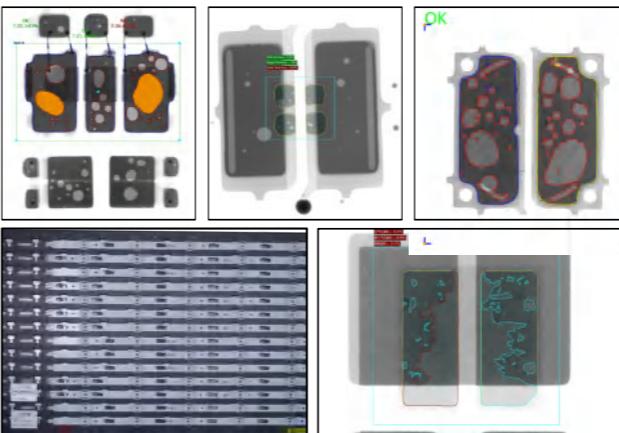
X-Ray Offline Inspection Equipment

X1200 is a precision micro-focus X-ray inspection device for ultra-large area inspections such as large PCB boards, 5G communication motherboards, LED light strips, etc. Its effective inspection area can reach 1200mmx600mm, which can realize large-scale automatic inspection and accept customized services according to different product sizes.

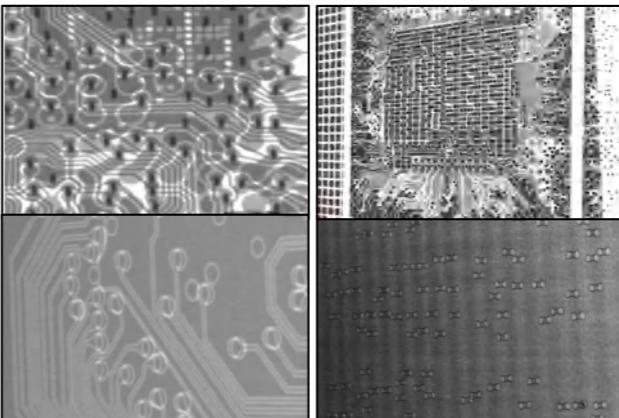
Product Features

Ultra-large Inspection area 1200mmx600mm
X/Y motion of the radiation source and detector covers the inspection area
CNC editing of the inspection program to achieve automatic inspection and judgment
Accept customized services according to different product sizes (optional)
Automatic inspection solution customization (optional)
The software is easy to use and has low operating costs

Automatic Void Ratio Calculation



LED Light Bar Inspection



PCB Board Inspection



Product Parameters

Model No.	X1200	X1200B
X-Ray Tube	X-Ray Tube Type: Reflective sealed micro-focus X-ray source	
	Tube Voltage: 0-90KV	40-130KV
	Tube Current: 0-200μA	10-300μA
	Maximum Output Power: 8W	39W
	Micro Focus Size: 5μm (at 4W)-40μm	
Flat Panel Detector	Flat Panel Type: Amorphous Silicon Flat Panel Detector	
	Pixel Matrix: 1536x1536	
	Field of View: 130mmx130mm	
	Resolution: 5.5Lp/mm	
	Image Frame Rate (1x1): 20fps	
Equipment Specifications	AD Conversion Digits: 16bits	
	Input Power: 220V 10A/110V 15A 50-60Hz	
	Operation System: Industrial Computer Win10 64 bits	
	Platform Size: 1200mmx600mm	
	Dimensions: L2040mmxW1280mmxH1870mm	
	Net Weight: 2350 KG	