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美新半导体：将国产半导体推向世界， X-RAY 质检更用心

美新半导体 (MEMSIC) 是全球领先的惯性 MEMS 传感器及解决方案提供商，美新的技术使现实世界和数字世界相联接，并通过感知物理世界的位移和运动变化，为人们提供更加智能、可靠和安全的科技体验。

美新于 1999 年成立，目前总部位于中国天津，在美国圣何塞和中国无锡、上海、深圳、台北设有研发机构，在中国无锡、上海拥有制造和封测工厂，销售及技术支持网络遍及亚太，北美，欧洲，非洲和中东等地区。

对于半导体领域，卓茂光电有做过一些客户，如北一半导体、威海新佳、台湾景硕、华韩同芯、森尼克等等半导体企业，针对于客户所陈述的关于检测半导体内部是否存在异常，这边我发几个检测案例，如下图：

如何确保 IGBT 半导体产品的质量也成为半导体生产商的核心，半导体内部是否存在气泡、或者裂纹，陶瓷、金属等材料的产品也是有一定的区别。



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下面附上一些内部气泡缺陷实拍案例,蓝色线条为软件识别到的需要探测的轮廓(并不是识别整个产品,而是识别需要探测的区域),红色圈出来的是气泡图,绿色显示的数字是气泡比例。

美新半导体也是如此,通过借助 X-RAY 设备来分析产品内部结构、不可见的缺陷,来达到提升产品质量的目的。

MEMSIC pushes semiconductors to the world | Seamark x ray

MEMSIC is the world's leading provider of inertial MEMS sensors and solutions. MEMSIC's technology connects the real world and the digital world, and provides people with more intelligence, reliability, and Safe technology experience.

MEMSIC was established in 1999 and is headquartered in Tianjin, China. It has R&D facilities in San Jose, USA and Wuxi, Shanghai, Shenzhen and Taipei, China. It has manufacturing and packaging and testing plants in Wuxi and Shanghai, China. Its sales and technical support network covers Asia-Pacific and North America, Europe, Africa and the Middle East and so on.



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For the semiconductor field, Seamark has done some customers, such as Nexperia, Weihai Singa, Kinsus Interconnect Technology Co, SENTRONIC ELECTRONICS TECHNOLOGY and other semiconductor companies. For the detection of whether there is an abnormality inside the semiconductor, here are a few test cases, as shown below:

How to ensure the quality of IGBT semiconductor products has also become the core of semiconductor manufacturers. Whether there are bubbles or cracks inside, there are also certain differences between products made of ceramics, metals and other materials.

Some examples of internal bubble defects are attached below. The blue line is the outline that needs to be detected by the software (not to identify the entire product, but to identify the area that needs to be detected), the red circle is the bubble graph, and the green number is Bubble ratio.

MEMSIC bought the X6600 x ray inspection machine and used X-RAY equipment to analyze the internal structure and invisible defects of the product to achieve the goal of improving product



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quality.

Family of Industrial X-ray inspection machine & BGA rework station

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