

CVIS100 端子缺陷检测系统

CVIS100 VISUAL INSPECTION SYSTEM

产品介绍 Introduction

端子缺陷检测系统是一种用于检测压接后接线端子外观缺陷的测量设备，能够发现压力检测设备无法检出的压接缺陷。在模具压接端子后，机械臂输送端子行程中通过光感设备触发相机拍照，通过图像算法检测到不正常的压接缺陷。大大提高了端子质量缺陷检测的准确性，避免产生压接不良。

Visual inspection system is an equipment designed to inspect the appearance of defectives of the crimp terminals and it can inspect the defectives which can't be detected by CFM. The camera will snap the crimped terminals when the swivel arms pass by and then the visual inspection system will detect the defective terminals by image analysis, which will increase the precision of the quality control substantially of the terminals and avoid defectives to the utmost.

特性 Features

外形小巧，结构紧凑，通过数据采集卡传输图像在电脑端判定，性能稳定可靠；
界面清晰直观，数据一目了然，操作简便；
参数可调，通过设定公差匹配度能够适应各种端子。

Small size, compact structure and reliable performance through image judge on the computer.
Clear interface, legible data and easy operation.
The parameters are adjustable and can be applied to various terminals by setting the tolerances.

功能 Function

- **自动感应:** 设定好光感参数后，在生产过程中自动拍照，拍照机制运行稳定；
- **定制学习:** 通过良好端子图像进行学习，不同端子有独立的解决方案，已保存的方案可直接调用；
- **采集通道:** 双端压接端子图像独立采集判断，不会发生冲突；
- **数据处理:** 可按设置保存正常图像、异常图像，方便质量检测图片追溯；
- **数据通讯:** 与生产控制逻辑有稳定通讯协议，一旦发现压接质量异常会停止生产，将异常压接检出。
- **Automated inducting:** Automatic and stable snap in production after the light sensation parameters;
- **Customized learn:** Separate solutions for different terminals by a good learn of the terminals and direct call of the cases saved;
- **Collection channel:** Separate image collection and judge of both terminal ends without conflict;
- **Data processing:** Saving good and bad images for tracing back;
- **Data communication:** Stable communication with production control and instant stop of production once abnormal crimped terminals is found.



不良品案例

技术参数 Specifications

判定时间 Judge Time	<100ms	端子通过速度 Pass Vel speed	3m/s
快门速度 Snap Speed	1/60000s (17 μs)	曝光时间 Exposure time	<0.02ms
误检率 Failure Rate	0.10%	闪光灯发光时间 Lighting time	1ms
照相机像素 Pixel	彩色30万像素	保存品种数 Save types number	无上限 unlimited

★ 相关产品 Related Products

HBQ-804 全自动压接机 HBQ-804 Fully Automatic Crimping Machine