

# HIT SURFACE INSPECTOR

The **SI-1000** is a surface inspection solution that fits your production line and your budget.

When mounted directly over your conveyor, it is capable of quick detection of dust-sized particles and defects on flat surfaces and triggering the rejection of flawed objects in high speed production environments.

**A variety of surfaces and surface areas can be examined for defects.** Paper, printed circuit boards, and LCD color filters (almost any flat material) are among the types of surfaces on which the SI-1000 can find defects. The system can batch scan subjects of predefined width and length at varying speed, the maximum being dependent upon the smallest detectable defect size (resolution) required.

**The main unit houses and aims a highly sensitive, high signal-to-noise ratio linear CCD camera** at a window underneath which subjects are passing on a moving conveyor.



An external, variable-intensity light source illuminates the subject at which the camera is "looking" by shining the light through a fiber optic cable and cylindrical lens.



**Holo Image Technology, Inc.**

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Tullytown, PA USA 19007

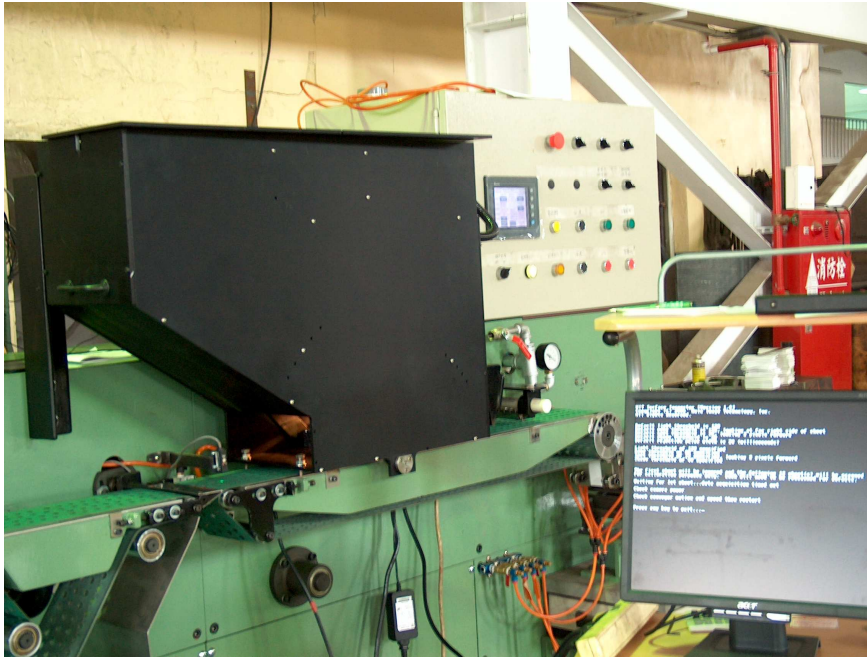
## SI-1000

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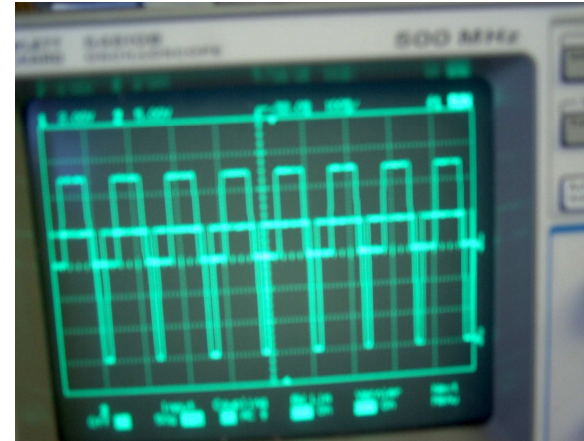
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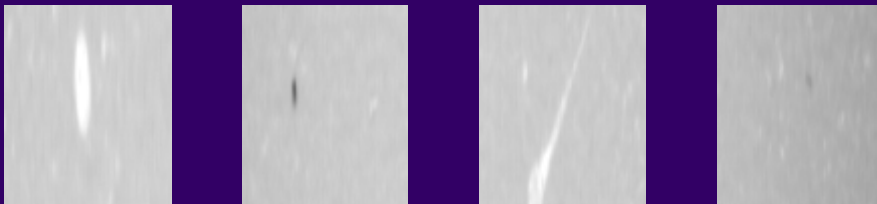
The complete system includes a computer with preinstalled image processing software.

Programmable logic outputs for rejection mechanism, conveyor, and other function control make the unit adaptable. There are four generic outputs, the voltage and logic of which can be customized to trigger activation of a rejection lever, deactivation of a conveyor, and basic conditional and sequential control of other functions in your particular production system.



Sensor input and rejection pulse timing

The sensitivity to different kinds of defects is user-adjustable within a broad range.



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