Zero false alarm usefulness created on an actual production site!!

*LADYBIRD* · *LADYBIRD SERVER*

*The photograph shows an example in which the product is installed on a cell line work table.*
Various types of inspection are possible including the typical inspection of parts shown below:

- Polarity and existence of clear parts
- Polarity and existence of electrolytic capacitor
- Polarity and existence of diodes
- Existence of resistors
- Existence of parts
- Polarity and existence, wrong pin number for IC
- Wrong connector color
- Polarity and existence, wrong pin number for connectors
- LED color and brightness
- Existence of parts with the same color on white boards
- Existence of jumper leads
- Excessive inclination of parts
- Brightness and lighting failure in each segment
- Screw existence
- Polarity and existence of white photo couplers

Features

With all useless functions and parts eliminated, inspection is possible only by installing the product on an existing work table. The existing lights on the work table can be used as the light source unless there are special reasons.

Adopts the *FuzzyQual* engine which succeeds the genealogy of DIPSTAR. Anyone with experience in using DIPSTAR will know what to do.

- It does not apply pattern matching at all for inspection method.
- Adopting the proprietary *FuzzyQual* engine to make judgments by color analysis, it practically realizes “zero false alarm (zero false detection).”
- The basic inspection speed is 5 seconds per board including image pickup and inspection. There is sufficient time even for high-speed lines with tact time of 20 seconds or shorter.
- Since the large depth of field, polarity of electrolytic capacitor with height of 70mm can be inspected without problem.
- Since program preparation and debugging is conducted on SERVER, there is no need to stop the inspection terminals.
- All of the inspected images can be stored.

The operator required is to push the start switch only.

* In-line type
A scene from utilization on site
Zero false alarm realized

The maximum depth of field for parts surface is 70mm.

Since the bottom surface is not subject to inspection, there is no restriction to the height as long as it can be loaded.
Automation of DIP line inspection

Appearance of strong hand in measures to replace [visual inspection with focused points]!

In the past, it was considered difficult to automate the inspection of “DIP manual insertion line,” and visual inspection was nearly taken for granted. If defects are missed, the countermeasure was [visual inspection with focused points]. Although there were various reasons that prevented automation of inspection, it did not address customer satisfaction. By installing LADYBIRD “Before Wave Soldering Machine” and DIPSTAR “After Wave Soldering Machine,” 100% test coverage can be addressed. The data collection function also delivers analysis reports on defect tendencies, which allows quick feedback in process / design improvement and development of a “line without defects.”

System configuration outline

[Programming server]
Model: LADYBIRD SERVER

Roles of a server
(1) Preparation of test programs
(2) Debugging of test programs
(3) Storage of test programs
(4) Management of test terminals

* Program preparation, editing, and storage work cannot be implemented at all on the inspection terminals. With this measure, the cases in which the judgment criteria vary among the terminals can be prevented, since only the administrator can control the inspection programs.

[Inspection terminal] Model: LADYBIRD

* Connection possible up to 6 inspection terminals per programming server unit.

* Standard Kit includes 1 unit of programming server and 5 inspection terminals.

Inspection terminal (1) Inspection terminal (2) Inspection terminal (3) Inspection terminal (4) Inspection terminal (5) Inspection terminal (6)
# Specifications

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* Code reader is optional.

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Please note that the information on specifications described on this catalog is subject to partial change without prior notice for purposes of product improvement.

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