PCB Graphtech

SCREEN

Defect Verification & Repair System VT-1800/VT-1850

Greatly improved defect verification performance

The VT-1800/1850 visually detects defects on an inspected PCB with reference to the inspection data from the AOI system (PI series) and displays the results on the monitor screen. When an inspected panel is placed on the verification table and the panel lot number is entered, the VT-1800/1850 automatically moves its camera to a defect position on the panel and displays an enlarged image of it on the monitor screen.

Its ergonomic design and white LED light source, adopted in order to enhance operator performance, have significantly improved visibility. In addition, the enhanced moving speed of its camera has enabled productivity improvements compared to previous models. The VT-1800/1850 also provides various options, such as a light table and automatic clamp functions. Furthermore, additional VT-1800/1850 units can be added to an existing AOI system as auxiliary defect verification modules to match your productivity needs.

Features :

1. **Adoption of ergonomic design**

   - The 10-degree slant of the table and curved center area of the operation panel allow the operator to correct defects on the entire PCB while staying seated.
   - A newly adopted 17-inch LCD monitor provides better viewability. It allows checking of the defect type and viewing of the actual defect image at the same time. This reduces the frequency of the operator's eye movements and thus lessens fatigue.
   - With the forward/backward slide mechanism and up/down tilt mechanism that are incorporated into the LCD monitor, the operator can stay in a comfortable position during the operation.

2. **Improvement of functionality**

   - An automatic light modulation function has been adopted. As the optimal lighting condition can be registered to the recipe, the VT-1800/1850 allows consistent defect verification even when the zoom scale is changed.
   - The VT-1800/1850 provides faster moving speed of the camera of 1.8 times in the X axis direction and 1.3 times in the Y axis direction when compared to our previous model. This not only improves operability but also allows fast verification of defects without placing stress on the operator.
   - A combo drive has been adopted as an optical drive. This facilitates saving of image data and collection of defect data.
   - A white LED light source has been adopted. This not only improves the visual check performance during defect verification but also ensures longer life. Consequently, running costs can be saved.
   - A function that allows concurrent display of the master image has been incorporated. As the actual image and the master image can be compared on the

monitor, defect detection failure can be reduced.

- Customizable keys are provided. Assigning a function to a customizable key enables an operation using multiple keys to be performed with just one key.

3. **Various options**

- An automatic clamp function that enables speedy panel replacement can be incorporated.
- A small LCD monitor for displaying the actual defect images can be installed on the X-axis cover. This brings the monitor position closer to the panel verification location and thus the operator can confirm the corrections of defects on the panel and monitor with less eye movement.
- A frame support for standup operation is prepared. The optimal option can be selected according to the layout of the workplace.

For more information, please contact :

PCB Graphtech Pte Ltd
51, Bukit Batok Crescent #08-41/42, Unity Centre, Singapore 658077
Phone : (65) 6261 1933 Fax : (65) 6261 1938
www.pcb-graphtech.com.sg Email : pcbgt@pcb-graphtech.com.sg