ScanEYE MARK™
"Automatic Mark Inspection"

WHY USE ScanEYE MARK?

- **Timely:** Save valuable time down the line.
- **Flexibility:** Accept discounted boards from board fabricators.
- **Necessity:** Detect marks before entering the line.
- **Efficiently:** Eliminates wasteful component placement.
- **Mandatory:** 100% automatic recognition of skip marks.
- **Economically:** Placement machines are optimized.
- **Environmentally:** Eliminates board/component scrap.
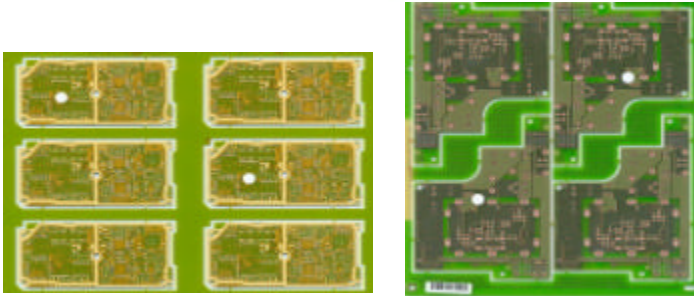
WHAT IS ScanEYE MARK?

ScanEYE MARK (Automatic Mark Inspection) identifies the "skip" marks that designate defective PCB boards in a panel. ScanEYE MARK provides a simple and user-friendly alternative to time-consuming manual checking methods or expensive, high-end placement systems checking each board.

Boards with skip marks can now be used with ScanEYE MARK to decrease production time. Additionally many board fabricators offer price discounts for panels with skip marks; these boards can now be used.

ScanEYE MARK uses simple Windows user interface integrated with an automatic conveyor and image-processing unit. This combination allows for skip marks to be detected both inline and offline (with a loader/unloader). Both methods save considerable time since the board is checked only once by a single machine rather than multiple times by multiple machines.

HOW DOES ScanEYE MARK WORK?

ScanEYE MARK's integration within the production line provides 100% verification of absence / presence of skip marks before entering the placement environment.

Each PCB or substrate is placed into ScanEYE MARK to distinguish marks at the head of the line. The PCB is then shuttled down the line. No more wasteful placement of components on boards that fail.

QUICK & SIMPLE PROGRAMMING

ScanEYE MARK uses a golden board to teach skip marks fast and easy. The software consists of five easy steps to program the boards to be examined.

ScanEYE MARK can run inline in production mode or can be setup offline with a loader/unloader as a batch job. ScanEYE MARK reads the barcode, automatically aligns the image, identifies the skip marks in seconds, and generates an ASCII file with all skip information. Pick and place machines save time by reading this file instead of having to inspect each board for a skip mark.

INCREASE YIELD & IMPROVE OVERALL EQUIPMENT EFFICIENCY

ScanEYE MARK's powerful inspection process increases product yield by ensuring component placement on only good boards. No wasted components! Additionally, the skip marks are only checked once rather than each time the board enters a new machine. Thus, lost production time and inefficient placement of components is eliminated.

System Specifications

- Maximum Board Size:
  18.1" X 20" (460mm X 508mm)
- Maximum Inspection Area:
  17.0" X 20" (432mm X 508mm)
- Minimum Board Size: 2" X 2" (51mm X 51mm)
- Resolution: 100/200/300/400/800 dpi
- Barcode Reader
- PC Pentium III – Win2000
- 30 GB HD, 128 MB RAM
- CD-ROM (CD-RW for archive purposes)
- Monitor (15" Flat Screen)
- Network compatible)
- SMEMA Interface

Requirements

- Power Supply: 230V / 50 Hz or 110V / 60 Hz (jumper selectable)
- Power input: 0,75kW

Footprint

- Length: 41.7" (1,059mm)
- Width: 35.0" (889mm)
- Height: 77.1" (1,958mm)
- Weight: 396.8 lbs (180kg)

Partners: Avytechno Indonesia, Techlogic Thailand, Westek Malaysia, Tritronics Philippines, Utama Australia

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