VS1000

IN LINE VISION SYSTEM

FEATURES AND BENEFITS

Repeatability/Precision

- Provides accurate line inspection and marking with data logging capabilities. 508 (H) x 480 (V) pixels (approximately 0.002 in per pixel resolution).

Flexible

- The system can be programmed to detect a number of line parameters. Gaps, width, pitch from edge, and pitch to next line.

Cost Effective

- Provides high throughput processing with low labor content.

User-friendly

- Program parameters are easy to set and save. Can be integrated onto the bench top or reel-to-reel format machines.

The BioDot VS1000 Inspection Vision System is designed to perform automated line inspection and marking for lateral flow test manufacturing. The system can be integrated onto any of BioDot's XYZ or Reel-to-Reel products (hand-held terminal controlled).

In rapid test manfacturing reagent is dispensed onto membranes to create test and control lines. When the reagent is first dispensed the line is visually seen as a grey, "wet" area on the membrane. Once the reagent has dried, the reagent line is no longer visible, so line inspection must be done immediately after dispensing. The VS1000 system is an option for BioDot's (HHT) dispensing systems that automates the inspection of reagent lines on membranes.

The system uses a camera and light source integrated with a marker. The camera can be programmed to detect a variety of line parameters including presence, width, and position relative to an edge or other line. Each of these parameters is monitored by the system and when one is out of the user-defined programmed range, a marking device prints ink onto the membrane. The ink-marked section of the membrane can then be removed in a later stage of manufacturing.

BIODOT

VS1000 IN LINE VISION SYSTEM

SPECIFICATIONS

Input with a remote control consol

No. of pixels: 508 (H) x 480 (V)

No. of programs: 16

No. of parameters:*
- Area sensor 8/program
- Absolute position detection 4/program
- Relative position detection 4/program

Inspection mode:*
- Width measurement 8/program
- Pitch measurement 8/program

Continuous processing of 4 programs max. (32 inspections)*

*Web speed may need to change depending on the number of parameters being monitored for in-line application.