



PRODUCT  
INTEGRITY

# SEPHA VISIONSCAN

Visionscan is a tool-less, non-destructive leak detection device for pharmaceutical blister packs.

Using the latest camera imaging technology, it offers modern pharmaceutical manufacturers a flexible, reliable, objective and cost saving alternative to destructive blister pack test methods such as blue dye.

Visionscan is simple to operate and requires no tooling, making it ideal for high volume pharmaceutical manufacturers and packagers where high levels of quality control, cost reduction and multiple product changes are required.

## FEATURES

- Non-destructive seal and leak detection device designed for blister packs
- Incorporates high resolution imaging technology that will detect defects in individual blister pockets, channel leaks and weak seals down to 15 micron
- Tool-less. Ideal for production lines running multiple products
- Can test multiple packs per test cycle
- Rapid test time of less than 60 seconds per test
- Operating system can store up to 30,000 product types

- Simple operator use via a touch screen interface
- Can test packs that contain tablets / capsules in multiple material / design formats
- Objective, repeatable pack test for each product
- Capable of storing and exporting data for audit and quality control purposes
- Can form part of 21CFR part 11 compliant system
- Improved environmental impact
- Flexible, mobile table top device

## ▼ VISIONSCAN





## MACHINE OPERATION

Visionscan utilizes high resolution camera and projection technologies, combined with vacuum pressure to determine if weak seals or leaks are present in blister packs. It is simple to operate and generates accurate, reliable, repeatable results with clear pass or fail information. Test methods are developed for various pack formats and are stored in the inbuilt PC as 'recipes' for the pack type.

### 1. Load Packs and Select Product (Image 1)

Packs are loaded by the operator into the test chamber and the drawer closed. The operator then selects the product being tested from the product recipe library.

### 2. Start Test and Acquire Reference Images (Image 2)

Once the drawer is closed the operator presses the 'Start Test' button. An LED light grid is projected onto the blister packs, the camera takes a reference image and the operator then confirms that correct number of packs is present. This image is then referenced against the pre-stored 'recipe'.

### 3. Vacuum Phase (Image 3)

A vacuum is then applied in the test chamber. The camera captures an image of the packs under vacuum, and after a set dwell time the process is repeated, with the images referenced against the pre-stored recipe for the pack type. Visionscan software will then determine irregularities and defects in the packs and give a pass or fail result for each individual pocket in the blister packs.

### 4. Pass or Fail Screen - Pass (Image 4), Fail (Image 5)

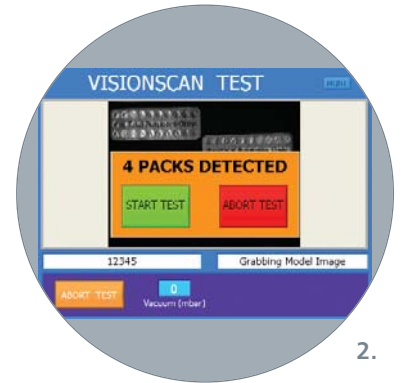
The results for each blister pack and individual pocket will then be available for the operator to see on the screen. A simple 'green' for pass or 'red' for fail result will be shown for each pocket. Visionscan is capable of detecting defects down to 15 micron.

## TECHNICAL SPECIFICATION

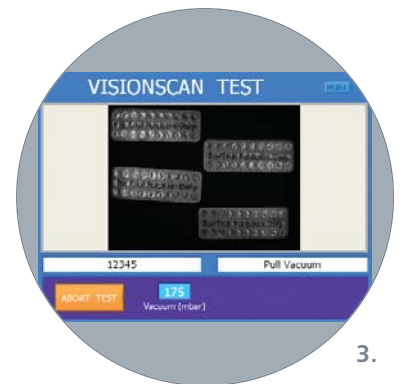
<b>OPERATION</b>	Semi-automatic
<b>CONSTRUCTION</b>	304 Stainless Steel casework
<b>TEST AREA</b>	220mm x 160mm
<b>CAMERA RESOLUTION</b>	1600 x 1200
<b>MEASUREMENT RANGE</b>	Will detect defects down to 15 micron
<b>MINIMUM BLISTER POCKET DIMENSIONS</b>	5mm deep x 5mm wide (pack dependent)
<b>OPERATING SPEED</b>	Less than 60 seconds per cycle
<b>MACHINE DIMENSIONS</b>	450 (W) x 500 (L) x 725 (H) mm
<b>SOFTWARE</b>	Windows XP PC with 15" touch screen operator interface 2 x USB ports, 1 x Ethernet port
<b>AUDIT COMPLIANCE</b>	Can be 21 CFR part 11 compliant
<b>MACHINE WEIGHT</b>	80kg / Shipping Weight: 100kg



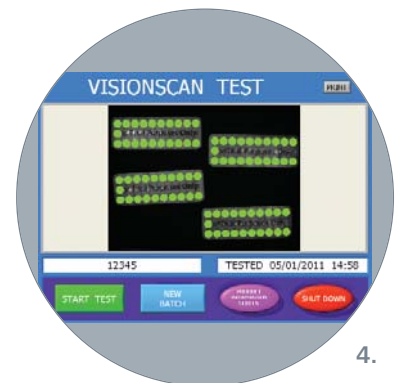
1.



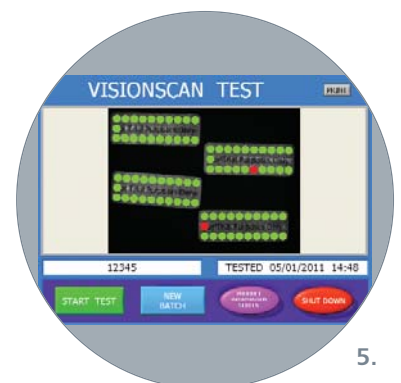
2.



3.



4.



5.