



LEAK  
TESTING

## VisionScan

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VisionScan is a  
non-destructive,  
tool-less leak testing  
machine for blister packs

Smart Innovation

SEPHA

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### VisionScan is a non-destructive, tool-less leak testing machine for blister packs

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The Sepha VisionScan is a non-destructive, tool-less leak detection device for pharmaceutical blister packs. Using the latest camera imaging technology in combination with differential pressure, it can detect leaks in individual blister pockets as low as 7 micron\*. The machine offers pharmaceutical manufacturers a flexible, reliable, objective, deterministic and cost saving alternative to destructive blister pack test methods such as blue dye.

The 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.

Since its launch, Sepha VisionScan has received widespread industry acceptance for non-destructive and deterministic testing of blister packs. After further development, the new, compact and lightweight model incorporates a GMP compliant and FDA approved polymer construction with an easy to use touchscreen interface. This, alongside an improved test time, provides more efficient testing with the same level of accuracy and objectivity expected from Sepha's non-destructive testing technology.

#### Machine Operation

Test methods are developed for each pack format and are stored as 'recipes' for that pack type.

##### 1. Load packs and select product.

- Login
- Select Product
- Select or enter batch details,
- Load packs
- Close drawer
- Press start

##### 2. Reference image and vacuum Phase image.

VisionScan then takes an image of the packs, pulls a vacuum, takes a second image and compares the two. If required, small holes can then be detected by waiting for a set dwell time, releasing some of the vacuum and capturing another image. All images are then compared and analysed for pocket movement using product specific parameters.

##### 3. Pass or fail screen

The results screen shows a pass or fail result for each individual pocket. If movement is identified, a simple 'green' for pass will be displayed on the pocket, indicating that there are no defects present. If no movement is identified, the pocket is defective and a 'red' fail result will be shown on that defective pocket. VisionScan is capable of detecting defects down to 7µm.\*

\*Pack and material dependant

#### Technical Specification

##### Pack Type

Blister pack

##### Test Area

210mm x 165mm

##### Measurement Range

Will detect defects down to 7µm (pack & material dependent)

##### Test Cycle

Min. 10 seconds for micron holes, min. 6 seconds for gross holes

##### Operation

Semi-automatic

##### Construction

Anodised Aluminium and Acrylic – capped ABS top Cover

##### User Interface

12" WXGA TFT display, 1280 x 800 pixels with resistive touch screen

##### Utilities

Electrical 24v DC 4A  
Compressed Air: 6 Bar

##### Configuration

2 x USB ports, 1 x Ethernet port

##### Tooling Changeover

Tool-less

##### Audit Compliance

Can be run in compliance with 21CFR Part 11

##### Machine Dimensions

470mm (L) x 440mm (W) x 520mm (H)

##### Weight

Machine: 30kg  
Shipping Weight: 68kg

##### Warranty

Supplied with a 12-month warranty. (Service Level Agreements and/or extended warranties are available for additional support.

# Key Features

Non-destructive, deterministic seal and leak detection device designed for blister packs

Incorporates imaging technology that will detect leaks in individual blister pockets, channel leaks and weak seals down to a 7µm\* laser drilled pin hole

Tool-less device making it ideal for production lines running multiple products

Can test multiple packs per test cycle

Network connectivity to a central server

Rapid test time down to 10 seconds for micron holes and as low as 6 seconds for gross holes

Operating system can store unlimited 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

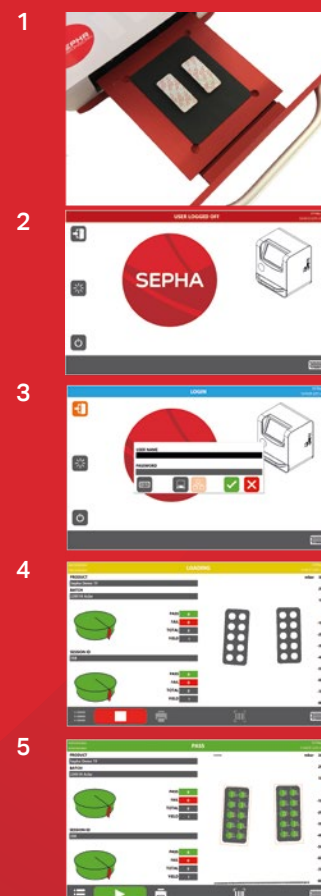
Capable of storing and exporting data for audit and quality control purposes

Can form part of 21CFR part 11 compliant system

Compact and lightweight, mobile table top device with improved environmental impact

Active Directory and flexible reporting built-in

\* Pack and material dependent





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