



VITRONIC
the machine vision people



VINSPEC HEALTHCARE

FOR TRANSDERMAL THERAPEUTIC SYSTEMS (TTS)

Quality Control That's More Than Skin-Deep

Optical inspection systems from VITRONIC ensure the highest level of product safety in the manufacturing of transdermal patches. As with any pharmaceutical production line, rigorous quality criteria must be observed when manufacturing transdermal patches, also known as TTS (transdermal therapeutic systems). Optical quality inspection helps ensure that no defective products are delivered to patients. Our VINSPEC HEALTHCARE inspection system for TTS detects defective patches inline during production and the subsequent packaging process. In addition to reliably finding defects, it minimizes waste of active ingredients and materials by pinpointing defects as early as possible.

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THE RIGHT INSPECTION FOR EVERY TTS

Transdermal patches have a wide range of applications – from the treatment of Alzheimer’s disease and Parkinson’s disease, to pain management and nicotine replacement therapy. These patches are equally diverse in terms of size, composition, shape, active ingredients and packaging. A comprehensive quality inspection must meet these requirements and cover multiple production steps.

A Solution for a Wide Range of Inspection Tasks

The VINSPEC HEALTHCARE system for TTS covers a wide range of inspection tasks as standard. Seamlessly integrated into production sequences, it ensures reliable and efficient quality control. In the first step of patch manufacturing, it inspects the backing layer to detect any potential contamination or defects in the material. When the active ingredient is applied to the backing foil, the system then inspects the quantity and position of the relevant substance, compares these with the target values and also detects any contamination or minute particles that may be present. Inspection of the patch’s punching and sealed seam and of its printed elements is also integrated.

In addition to continuous monitoring of the TTS production process, the VINSPEC system also takes care of inspection tasks relating to the packaging process. These include inspection of printed elements on the surface of the pouch (positioning of the text, print quality including OCR, OCV and barcodes). The system also inspects the patch’s packaging – specifically, the sealed seam running around its perimeter.



The standard variant of the VINSPEC HEALTHCARE system therefore comprises all key process steps for a 100% quality inspection of transdermal patches.

Standard Performance Data at a Glance*

Total web width	120 mm (clocked mode) 200 mm (continuous mode)
No. of webs	up to five webs
Defect size	depending on inspection task and defect size, e.g. contamination from 0.1 mm, position from 0.3 mm
Maximum size inspection object	120 mm x 100 mm
Inspection speed	200 objects to be inspected per web and minute (clocked mode) 400 objects to be inspected per web and minute (continuous mode)

* We also offer customized solutions to meet any additional re-quirements.

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