Automated Hygiene Monitoring

HYPROSCREEN™

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Solution Excellence for Your Vision

VMT
PEPPERL+FUCHS
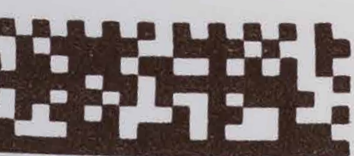
HYPROSCREEN™
Automated hygiene monitoring

In pharmaceutical production, equipment, laboratories and people must be regularly inspected for possible germs. For this purpose, thousands of Petri dishes are usually evaluated and documented manually during microbiological surface and hygiene monitoring. A cost-intensive, time-consuming and also error-prone procedure!

HYPROSCREEN™ digitizes and automates this process. Customary contact or settle plates are captured by a high-resolution camera system and analyzed by powerful image processing algorithms. In this way, even the smallest germs are reliably detected in just a few seconds.

Based on the long-standing know-how of VMT Bildverarbeitungssysteme GmbH and developed in close coordination with partners from microbiology and mechanical engineering, HYPROSCREEN™ sets a new digitalization standard in environmental and hygiene monitoring.

As a laboratory device, HYPROSCREEN™ LAB supports laboratory technicians in their daily routine tasks. Agar dishes are automatically read and assigned based on the label (barcode or data matrix code), and the image data is captured, evaluated and archived. By means of the intuitively operable, powerful software, a subsequent review of data is just as possible as the statistical evaluation of analyses, the creation of reports or the export of data to other DP/ LIMS systems.

HYPROSCREEN™ AUTOMATE automates the entire analysis process! Entire plate stacks can be fed and processed step by step. The plates are buffered in a magazine and fed individually to the image processing system via a handling unit. For image analysis, the tray lid is removed in advance by means of a special mechanism and automatically closed or reattached after analysis.

Critical plates are separated for post-processing, discharged or temporarily stored. With HYPROSCREEN™ AUTOMATE up to 300 media plates per hour can be processed fully automatically, analyzed for microbial growth, agar breakage, foreign matter, agar detachment and other defects, and the results documented.

HYPROSCREEN™ LAB and AUTOMATE are fully compatible with each other and can be networked. This also allows subsequent verification of plates with the laboratory system. Of course, HYPROSCREEN™ complies with all necessary standards and guidelines.
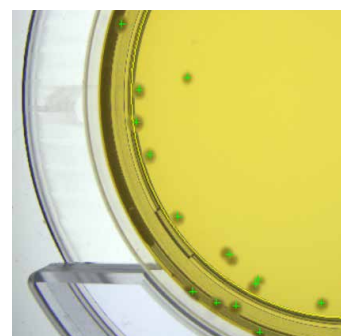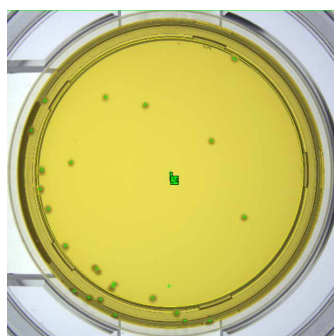
HYPROSCREEN™ LAB

- Unambiguous assignment of plates based on the barcode or data matrix code

- High-performance algorithms for image analysis, germ and defect detection

- Suitable for all commercially available contact and settle plates (diameter 54 mm … 90 mm … 150 mm)

- Complete documentation and archiving

- Powerful user administration

- Software for post-processing of plates

- Integration into LIMS environment possible

- Implementation and support of qualification processes such as DQ, IQ, FAT, OQ and PQ

- Validatable according to 21 CFR Part 11

- GMP compliant

HYPROSCREEN™ AUTOMATE
(additional features)

- Fully automatic processing of up to 400 plates with automatic unlocking and locking

- Storage magazine for different plate diameters and geometries

- MultiGripper for processing any plate geometries

- Flexible rules for further processing or disposal of checked media

- Integrated batch management

- Best ergonomics – easy operation

- Easy cleaning

TÜV certified according to ISO 9001

Solution Excellence for Your Vision

VMT Vision Machine Technic Bildverarbeitungssysteme GmbH is your leading automation partner for machine vision turnkey solutions worldwide. VMT® develops and supplies customized machine vision, robot vision, and laser sensor systems for all industrial sectors using our self-developed state-of-the-art hardware and software products. As a professional consultant, VMT® provides objective solutions tailored to individual applications. Our technical services cover the complete life cycle of your machine vision solution, including planning, commissioning, installation, and system integration as well as training, maintenance, and upgrade services. With more than 25 years of experience in industrial machine vision applications, you can be confident that VMT® will provide proven solutions for your operation that nobody else can match.