



Camera Inspection System // Type EOK-FA



Compact Blister Inspection System

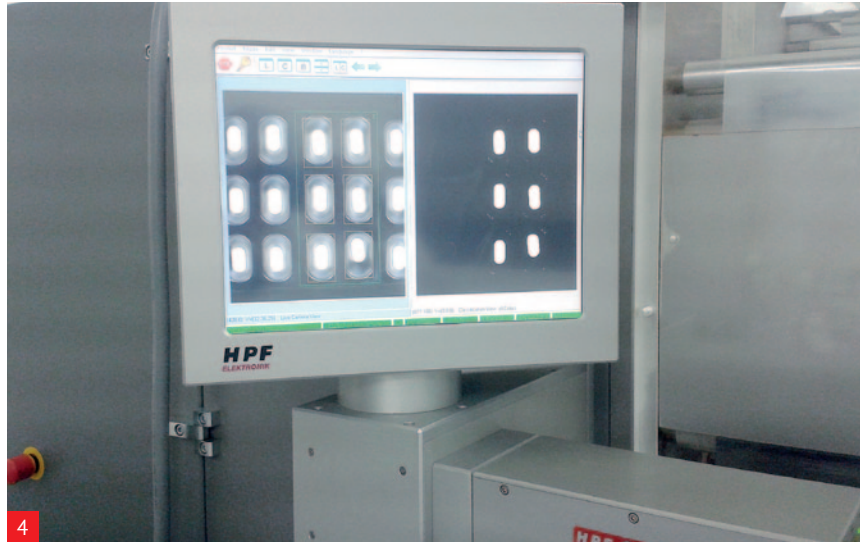
The **EOK-FA** consists of a color camera, an industry-standard PC with color high resolution display and lighting devices as well as powerful state-of-the-art software.

Using the reflected light method, the product to be inspected is illuminated by white light. A temperature-compensated LED unit illuminates the product area evenly without glare. The color camera captures the image which is then processed by the IPC. A signal from the machine triggers and synchronizes image acquisition. Depending on factors like foil width and the distance from camera to product, different lenses can be used. The captured image is displayed on a high resolution display. The software assists the user with every step of setting up a format, from the ideal settings for illumination and camera to product specific evaluation parameters. Our software package is capable of very high processing speed and offers an easy, comfortable and

intuitive Windows embedded user interface. Packaging layout and color information can be set up quickly using the system's teach functionality. Format parameters like product size tolerance can be easily adjusted via touch screen or a menu using a mouse, a keyboard is not necessary for operation.

Another feature of the **EOK-FA** is that due to efficient technical components and sophisticated temperature management in all areas – camera and lighting as well as the CPU/Display unit, there are no vent openings that might cause impurities that require cleaning or compromise functionality. Also, the system has no internal fans, so there are no moving parts inside. This, together with low internal temperature provides an extra long lifespan for the used components.





Technical Data

Description

- Easy to manage the taught-in color classes and blister sizes
- Powerful analysis of the color classes
- Taught-in color classes are displayed
- Formats can be changed quickly and easily
- Integrated shift register
- Biometric user management
- Integrated password/user administration with 6 levels
- If packaging layout doesn't change, existing formats can be easily modified to be used with a new format
- Adjustable picture database for all types of images such as bad, teach, empty, and good images
- Significant evaluation statistics with detailed information on cavities and products
- Checking the color of tablets, dragees and capsules (including multi-colored and printed capsules)
- Easy operation with comprehensive and video-assisted help support
- Simple teach-in procedure with automatic search and find function for all products and colors within the blisters
- Tolerances for size and colors can be adjusted separately

Resolution camera

Up to 12 MP, typically 2,4MP (1936 x 1216 px)

Supply voltage

24 VDC
power supply is delivered according to configuration

Dimensions

Customized for machine or unit to be fitted with the inspection system, foil width and index

Pic. 1) Camera housing with LEDs

Pic. 2) Fanless LED lightning

Pic. 3) Fingerprint scanner

Pic. 4 and 5) Mountigs



Innovative Company with worldwide connections

Innovative technology and the excellent quality of **HPF Elektronik's** Inspection Systems are successfully positioned within pharma, food and cosmetics companies all over the world.

Groundbreaking developments like the Pinhole Detection Unit for formed aluminum foil, the very first Illumination for Camera Systems with white LEDs, development of high precision camera systems and software solutions for a complete traceability (Track & Trace) make HPF's know-how indispensable for many companies in order to be able to manufacture optimal products securely and economically.

Reliable inspection and observation of fillings and their packaging, make the quality of contents and packaging visible and help significantly with meeting quality standards. High requirements of the pharmaceutical industry like e.g. GMP, EMV guidelines are just as easily fulfilled by HPF's Systems as the requirements of the FDA (cfr 21 Part11) and the demand for seamless validation. All Systems are customized to all individual requirements without problem and can also be integrated into your packaging line retroactively.



HPF is a member of:



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