



## 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 PC. 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-based 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 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.





2



1



3



4

## 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 4 user levels
- If packaging layout doesn't change, existing formats can be easily modified to be used with a new format
- The last 100 „bad pictures“ are saved
- Significant evaluation statistics with detailed information on cavities and products
- Checking the color of tablets, dragees and capsules (including two color 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

1392 x 1040 px  
1628 x 1236 px  
2452 x 2056 px

### Supply voltage

24 VDC  
power supply is delivered according to configuration

### Dimensions

Depends on machine or unit to be fitted with the inspection system, foil width and index



5

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 retro-spectively.



HPF is a member of:



**SINCE 1980  
EVERYTHING  
UNDER  
CONTROL**



# HPF ELEKTRONIK

Hans P. Friedrich Elektronik GmbH  
Neumuehleweg 34  
73660 Urbach // Germany

Fon +49 (0)7181 99887-0  
Fax +49 (0)7181 99887-9

Mail [info@hpf-elektronik.de](mailto:info@hpf-elektronik.de)  
Web [www.hpf-elektronik.de](http://www.hpf-elektronik.de)

