

Dust Protection⁺

NEW MED FEATURE SET OF THE BASLER MED ACE

Your Medical & Life Sciences application places special cleanliness demands on the camera? Get to know the new MED Feature Set **Dust Protection⁺** that is available for selected Basler MED ace USB 3.0 color and mono cameras.



In **Dust Protection⁺** we combine four components:

1. Sealing of the Sensor Room

With a sealing ring between the IR cut filter or cover glass and the sensor, we protect the sensor room from contamination with dust and other particles. In this way, we prevent contamination of inaccessible areas in the camera's optical path during transport and daily handling.

2. Cleanroom Production

The camera assembly is carried out under cleanroom conditions exclusively by trained employees. They enter the production area via an airlock and wear smocks, hairnet and special gloves. We filter and test the air in the cleanroom and document the number of air particles.

3. Inspection for Dust and Other Particles

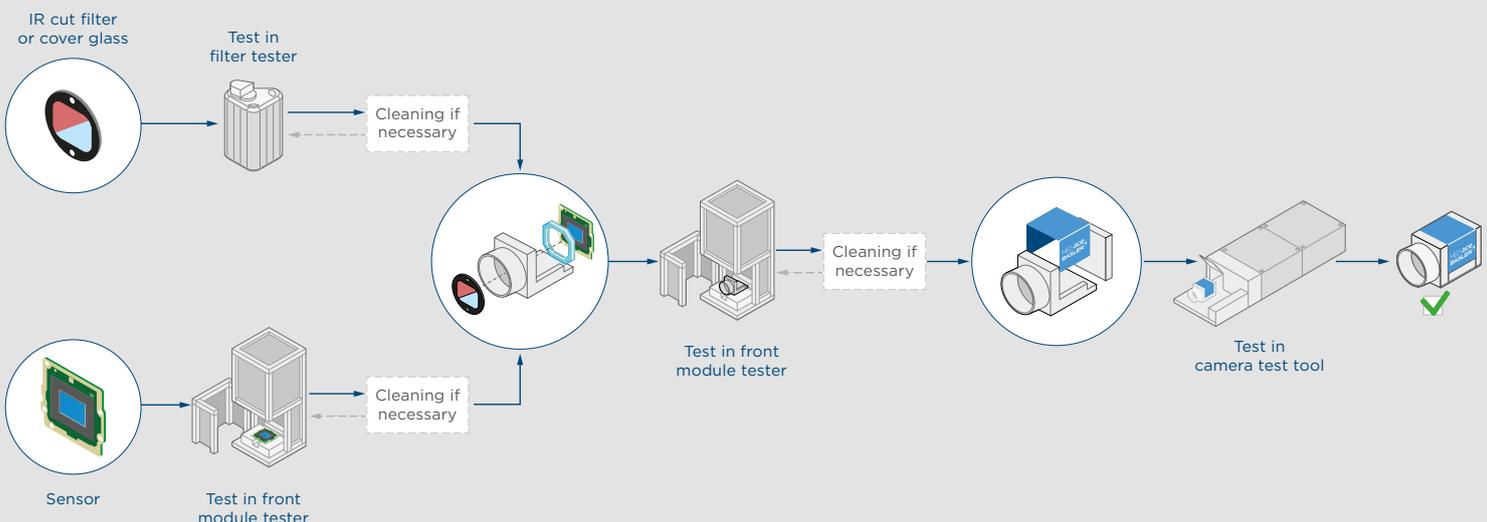
During assembly we check various components of the camera for dust and other particles. We examine the sensor and the IR cut filter or cover glass in specially developed test tools. If necessary, we clean the components. In our camera test tool we examine every finished camera.

4. High Robustness During Daily Use

Dust and other particles cannot enter the optical path during transport and handling. The cameras can easily be mounted alternately on different devices. Should it ever be necessary, the filter can be cleaned without contaminating the sensor.



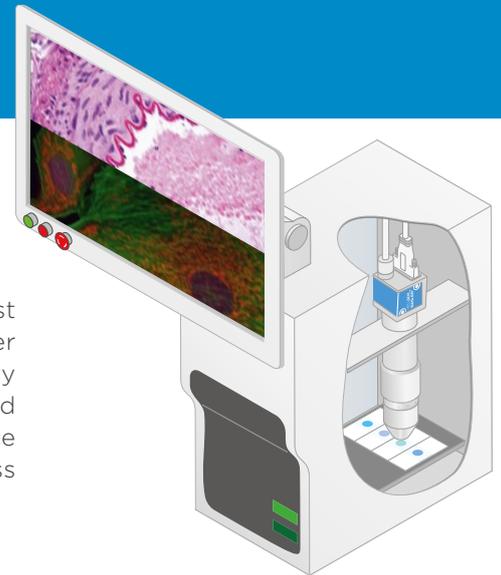
Continuous inspection of various components for dust and other particles during camera assembly:





With our new MED Feature Set **Dust Protection***, we're advancing our Basler MED ace cameras to meet the demands in the market. Certain applications in medicine, medical technology and life sciences, such as microscopy, have particularly high requirements for the cleanliness of the imaging components. We meet those requirements with **Dust Protection***."

Peter Behringer,
Head of Medical Business



Dust Protection* Ideal for Special Cleanliness Requirements in Automated Microscopy

Automated microscopy applications are used to examine and analyze the finest structures in detail. The cameras that are directly installed in the devices must deliver razor-sharp, high-resolution images. Due to the high magnifications and the very parallel light, even the smallest particles in the optical path are clearly perceived and thus make analysis difficult. Thanks to the sealed sensor room our MED ace cameras with the MED Feature Set **Dust Protection*** meet the highest cleanliness requirements.

Camera Models with the MED Feature Set **Dust Protection***

CAMERA MODEL	RESOLUTION [H x V px]	RESOLUTION	SENSOR	FRAME RATE [FPS]	MONO/COLOR	INTERFACE
MED ace 2.3 MP 41 color	1920 x 1200	2.3 MP	IMX249	41	color	USB 3.0
MED ace 2.3 MP 164 color	1920 x 1200	2.3 MP	IMX174	164	color	USB 3.0
MED ace 5.1 MP 35 color	2448 x 2048	5 MP	IMX264	35	color	USB 3.0
MED ace 5.1 MP 75 color	2448 x 2048	5 MP	IMX250	75	color	USB 3.0
MED ace 6.4 MP 59 mono	3088 x 2064	6.4 MP	IMX178	59	mono	USB 3.0
MED ace 6.4 MP 59 color	3088 x 2064	6.4 MP	IMX178	59	color	USB 3.0
MED ace 20 MP 17 mono	5472 x 3648	20 MP	IMX183	17	mono	USB 3.0
MED ace 20 MP 17 color	5472 x 3648	20 MP	IMX183	17	color	USB 3.0

 More information about the MED Feature Set **Dust Protection*** is available at baslerweb.com/med-feature-sets

About Basler

Basler is a leading international manufacturer of imaging components for computer vision applications such as cameras, lenses, frame grabbers, software as well as embedded vision solutions, customized products and consulting services. The products are used in a variety of computer vision markets, including factory automation, medical, traffic, logistics, retail, and robotics. Founded in 1988, the Basler Group employs approximately 1000 people at its headquarters in Ahrensburg and other locations in Europe, Asia and North America.

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