



Production quality at Allied Vision

// Quality is built on experience.

On new Allied Vision cameras, the sensor is cleaned thoroughly, so users can focus on their applications. It takes a committed team to build high quality cameras, from the first design idea to the shipping of the product.

Numerous steps have been taken until then. For optimum image quality, the production processes have evolved to prevent dirt from penetrating cameras. But in real life, even in a clean room, a minimum number of particles is allowed. What if such a particle falls on a filter or sensor? You can trust the high quality of Allied Vision cameras because dirt is detected by production experts and the end of line test. Would you like more in-depth information? Our Support team will be happy to inform you about specifications for sensor cleanliness.

Challenges for the manufacturing team

// Expertise results from time – and commitment.

Cleaning should ideally require only one cycle, but for microscopy, several cycles may be required. Every cleaning bears the risk to damage the delicate surface of optical components. Therefore, our cleaning experts are trained to develop a sure instinct for every move.

Conditions can be defined clearly for the hardware assembly. But it is difficult to define the conditions for optical cleaning without ambiguities.

Quantity and evaporation of cleaning liquids

The tips of cleaning tabs or cleaning tissues must be moist enough to remove dirt from the surface, but the liquid must not spread uncontrollably, for example on masks or electronic components. Cleaning liquids evaporate spirits into the air, thus changing the composition of ingredients. Therefore, the ready-to-use solution must be replaced in time.

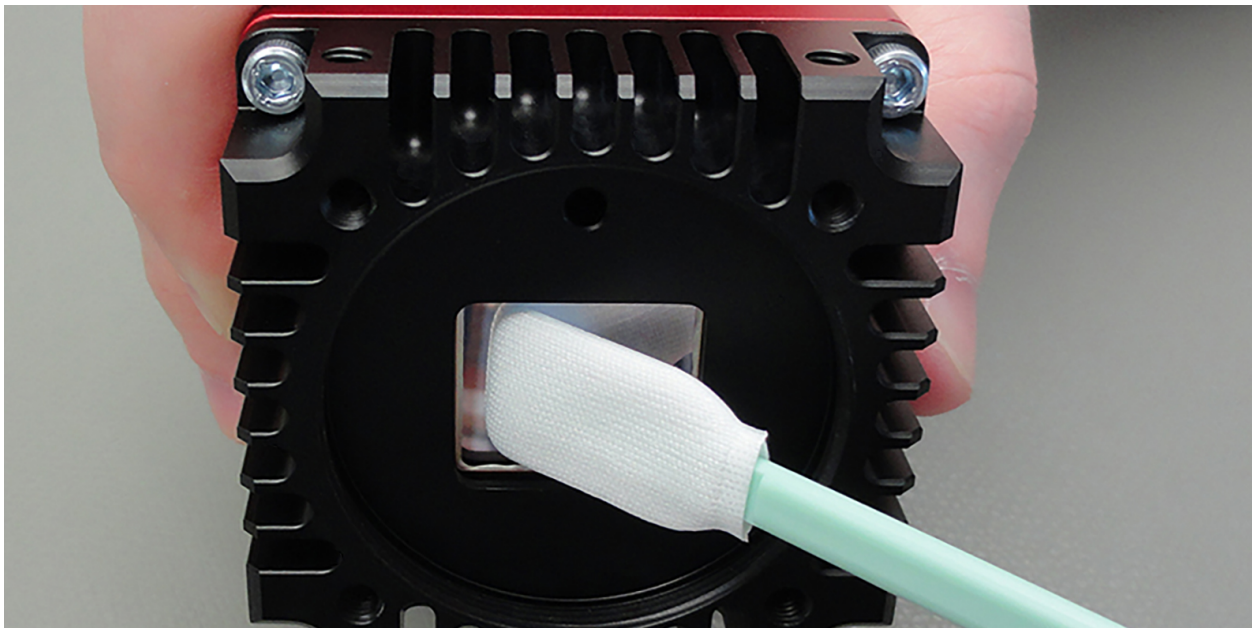
Mechanical stress

The pressure applied to the optical surface must be sufficient to reach every spot. On the other hand the pressure must not be so strong that the hardware is broken. For example, the optical windows have a thicknesses of only 0.45 mm.

Skills and talents

We have found that every cleaning task requires different manual skills. At Allied Vision, the single cleaning experts have specialized for those tasks where they perform best. They get better every time.

This way, optimum cleaning results are achieved with least efforts, ensuring that customers are satisfied.



If standard cleanliness is not enough

// Don't hesitate to reach out for us.

Each camera that is shipped was tested for cleanliness in order to meet the requirements of machine vision applications. For example, Alvium cameras with Sony sensors are tested to show no spots when acquiring an image at an aperture of f/8.0.

Please contact us if you have any doubts on the cleanliness of your Allied Vision camera:

www.alliedvision.com/en/about-us/contact-us/technical-support-repair/-/rma

Need help or have any questions?

Are you feeling unsure or have questions? Don't hesitate to reach out to us.

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