

DCS 300, 500 & 600 Series Digital Cameras

Cleaning your CCD imager is a basic user activity, but should not be performed unless the dirt or debris is a noticeable problem in the image file. Any time the sensor and other delicate mechanisms are exposed to tools, they are at risk of damage. Use all practical safety precautions, common sense, and only the tested cleaning supplies.

1. Assemble the cleaning supplies and prepare a clean area to work in.

Item	Quantity	Kodak Accessory	Supply Source
Camera AC Adapter	1	Yes	Original Camera Box or Dealer
Rechargeable Battery	1	Yes	Kodak Dealer
Sensor Swabs™	2 or 3	NO	Photographic Solutions, Inc.
Eclipse™ Optics Cleaner	Bottle	NO	Photographic Solutions, Inc.
Canned Air	1	NO	Photographic Dealer
Masking Tape	5 cm	NO	Dealer or Supply House



These products are the approved for use and will protect your DCS camera CCD from scratches when used according to directions.

2. Remove the camera lens from the front mount of the camera.
3. Carefully remove the anti-aliasing (AA) filter from the inside of the lens mount.

- Use a size #00 Phillips head screwdriver ONLY

- EOS mount: Unscrew the single screw at the lower edge of the AA filter frame

- F-Mount: Unscrew the two screws on left and right edge of the AA filter frame

Note: Use the sticky side of a piece of masking tape to engage the frame and lift it clear from the camera mount. Remove tape from frame promptly. Avoid touching the AA filter surface with your fingers, which might damage the delicate coatings.

4. Load the camera battery, and plug in the AC adapter.
5. Select **Main Menu>Imager Clean** on the rear LCD of the camera

NOTE: If you do not have both the battery AND the AC adapter, the error message will not let you continue with this procedure. The Imager Clean menu allows the mirror and shutter to remain open until you choose to close them. Do not allow the camera to remain in this state, to reduce contamination.

6. With the camera lens mount facing **DOWN** toward the table and the mirror/shutter open to allow access to the CCD glass surface: With very light puffs of air, try to dislodge any dirt or dust clinging to the CCD glass surface.

WARNING: Strong bursts of air at close range can damage the delicate internal shutter mechanisms, especially the shutter blades which are micro-thin. Use the flexible nozzle, keep canned air upright, and use indirect air puffs carefully.

The lens mount facing down allows dirt and dust to fall out, using gravity to assist your cleaning of the camera. Using the same technique, puff air onto the lenses, to reduce the amount of dirt and dust brought to the camera mount.

7. Using a strong light or flashlight, inspect the CCD surface for obvious dirt or dust specks. If the air puffs did not dislodge all the dirt/dust, you must use the Sensor Swabs and Eclipse™ cleaning solution to remove the offending dirt/dust.

WARNING: Common cleaning materials such as lens tissue, cotton swabs, or computer cleaning supplies have abrasive characteristics that should not be used in contact with the CCD glass surface. Only certified materials should be used.

8. Remove the Sensor Swab™ from the protective plastic sleeve. **DO NOT ALLOW THE SWAB TO CONTACT ANY SURFACE** that might contain dust, dirt, or other contaminants. Moisten the Sensor Swab™ with the Eclipse™ cleaning solution. The proper amount will not drip, but still have the complete swab area moist with solution. The solution is highly flammable, and may evaporate quickly. Make sure you have the camera CCD exposed and ready to clean before moistening the swab.
9. Carefully draw the Sensor Swab™ **ONCE** across the surface of the CCD glass with light, consistent pressure. Rotate the swab 180 degrees and draw it across the CCD surface again. Any cleaning solution should not pool or remain on the CCD; if pooling or streaks occur, you may have too much solution on the swab. The solution acts as a solvent and lubricant to remove contaminants from the surface.
10. Examine the CCD surface in a strong light. Take an out of focus picture of a flat, illuminated surface to see if any dirt or dust remains. Dust or dirt particles are recognized as a soft shadow or dark blemish in an image.

11. If dust spots remain, try using the canned air puffs once more. Repeat Step 9 again, using a newly opened Sensor Swab™. Do not be tempted to reuse a swab, as any dirt that was removed could be re-introduced to the CCD surface.
12. Once the CCD is acceptably cleaned, close the mirror/shutter by canceling the Imager Clean command and replace the AA filter after puffing air lightly on both surfaces to remove any dust. Tweezers or the loop of tape may be helpful in aligning the AA filter to the camera mount. Carefully thread the screw using the proper tool, and tighten the screw to just hold the filter mount securely and flat into the camera.

Test the camera after the procedure. Careful cleaning will take care of CCD. Keep the lenses and their mounts clean, trying to not introduce additional dirt to the camera proper, and keep the body cap on the camera when storing the camera without a lens attached. Prevention of dirt is much safer long-term for the camera equipment.

Operating the camera in excessively dirty environments may require more frequent cleanings to maintain the camera free of contaminants. Treat the camera as a precision device, and maintain the cleaning supplies as indicated by their manufacturer.

Cleaning Supplies Information:

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NOTE: Eclipse™ Optics Cleaning System can not be shipped via air, so overnight express delivery is not available. Make sure your dealer stocks the correct materials locally.

Thank you to Photographic Solutions for their help in developing effective products for Kodak digital photographers worldwide.