

DKL-15G

Optical cleaning kit travel edition-Grey



Introduction:

Ideal for cleaning of lens, screen, and camera body. Can also be used for screen cleaning of mobilephone,ipad, glasses, etc.

Using the step:



Use air blower to blow dust and away



Use a cleaning pen to sweep away floating dust



Place the cleaning droplet on the lens cloth and wipe



Wipe the outside of the camera with a wipe



Clean camera gaps with cotton swabs



Lens cleaner is 100% safe for cleaning multi-coated lens. The screen cleaner could be used to clean all kinds of sensitive optical surfaces.

Ultrafine microfiber cleaning cloth is anti-static treated. Each cloth is laser cut. No fiber drop and lint-free during cleaning process.



The portable air blower fits in the palm of your hand and is easy to squeeze. Concentrated air stream is strong enough to blast dust and dirt off the sensor, lens and screen.

The water-proof bottle container has an aluminum carabiner clip (hook to your backpack or belt loop). Keeps the equipment clean and dry in any tough weather.



THREE COLOR OPTIONAL



DKL-15G

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- Mini air blower black×1pc
- Professional lens pen×1pc
- Lens cleaning cloth:15cm×15cm×5pcs
- Cleaning cloth 11.5 ×15cm ×1pc
- Lens cleaner 30ml × 1pc
- Wet wipes × 10pcs



DKL-15R

Optical cleaning kit travel edition-Red

- Mini air blower red ×1pc
- Professional lens pen×1pc
- Lens cleaning cloth:15cm×15cm×5pcs
- Suede cloth 11.5 ×15cm x1pc
- Lens cleaner 30ml × 1pc
- Wet wipes × 10pcs



DKL-15B

Optical cleaning kit travel edition-Blue

- Mini air blower blue ×1pc
- Professional lens pen×1pc
- Lens cleaning cloth:15cm×15cm×5pcs
- Suede cloth 11.5 ×15cm x1pc
- Lens cleaner 30ml × 1pc
- Wet wipes × 10pcs

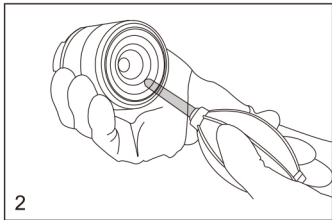
OPERATION MANUAL

It's suggested that the cleaning be done under a sufficiently lighted, moderately humid environment indoor without perceivable airflow.

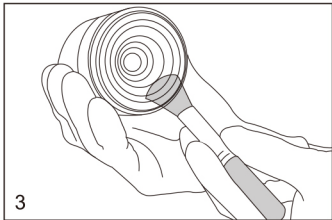
Lens cleaning

Possibly required tools: air blower, lens pen/cloth/cleaner, anti-static gloves, camera cleaning brush, contact-point conductivity solution and wet wipes.

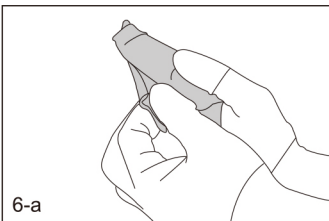
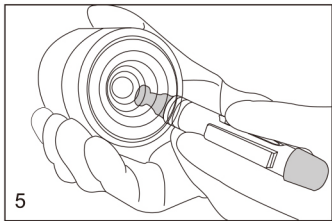
1. Put on the anti-static gloves (optional) and remove the lens cap and UV lens (unnecessary if no UV is equipped) to expose the lens.
2. Blow the dust, hard grain and sand-dust off the surface of the lens and camera with air blower.



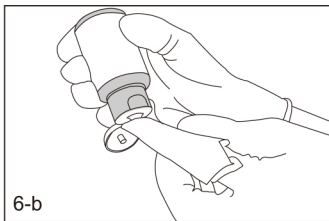
3. If dust remains in cracks or on the surface, use the camera cleaning brush (or alternatively the lens pen brush) to clean the dirty area. Make sure you're applying a gentle force during the brush cleaning.
4. After the brush is used for cleaning, use the air blower again to blow the lens surface for a thorough removal of the dust, hard grain and sand-dust.



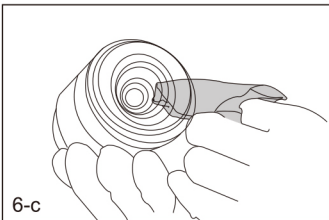
5. For grease stain like fingerprint on the lens, remove it by using the carbon head of the lens pen to perform a cleaning from the central to the peripheral area, or use the microfiber lens cleaning cloth.



6-a



6-b



6-c

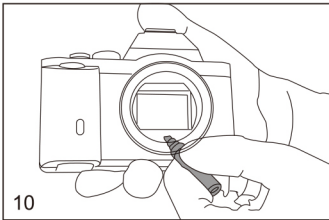
6. Wrap the lens cleaning cloth around your finger to rub the lens by circles from the central to the peripheral area. One or two drops of lens cleaner may be used on the cloth to remove stubborn stains. Use the cleaner-wetted cloth to rub the lens until it becomes thoroughly clean. As VSGO cleaner doesn't contain any alcoholic ingredients and shows a weak volatility, use

the dry part of the cloth to rub the lens again if any amount of cleaner remains on it.

7. Clean the rear lens or UV by following the previous steps (note: the central-to-peripheral cleaning ensures the most desirable effect).

8. Use the air blower in cooperation with the camera cleaning brush to remove the dust inside and outside the lens cap, and put back the cap to the lens.

9. Use the air blower in cooperation with the camera cleaning brush to remove the dust on the shell (cleaning is also required for the extension part of the retractable zoom lens). A used lens cleaning cloth or an optical wet wipe can be applied to clean the shell.



10

10. The contact-point conductivity solution is used to clean the contact point of the lens mount so as to remove the stain and delay its aging process, increase the conductivity and make sure a smooth connection between the lens and camera.

Sensor cleaning

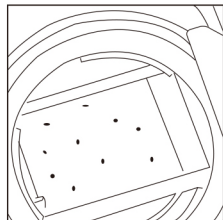
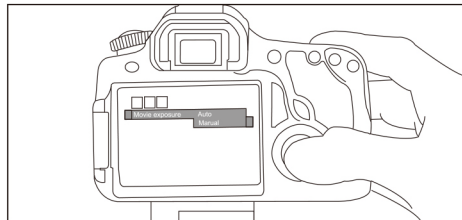
Possibly required tools: sensor cleaning swabs (for APS-C, Full frame and micro 4/3 frames), sensor cleaner, anti-static gloves and air blower

Please refer to the following table to choose the correct swabs.

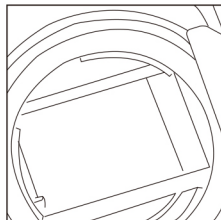
SENSOR TYPE	CAMERA CLEANING SWAB KIT
Micro four thirds frame sensor	DDR-12
APS-C frame sensor	DDR-15 DDR-16
Full-frame sensor	DDR-23 DDR-24

Dust detection and positioning

Set the camera to A/Av (aperture priority mode), F Value to F16, Focus Mode to MF (Manual Focus), Focusing Ring to Infinity, Exposure Compensation to 0, White Balance to Auto, and ISO to 200. Focus the camera to a sufficiently lighted white wall or a blank sheet of paper (make sure the entire part of the wall or paper fills in the viewing frame) and take a photo. Zoom in the photo to 100% to check if any black or gray spots exist in it, and keep in mind the approximate position (the actual dust location on the sensor is up-down and left-right reversed compared with how it appears in the photo). If black or gray spots are found in the photo, it means the sensor needs to be cleaned.



(Before cleaning)

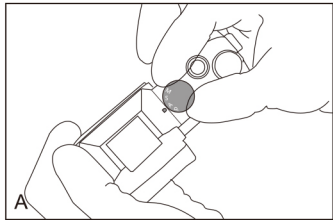


(After cleaning)

Sensor cleaning

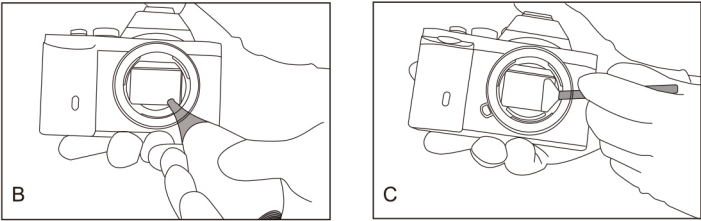
Before cleaning the DSLR, make sure the battery power is above 80% (to prevent the reflector or shutter from falling due to insufficient power and blocking the cleaning tool, which may damage the camera); before you clean the sensor of the mirrorless camera with 5-axis anti-shaking function, the battery should be removed to make sure the device is completely disconnected. For a more desirable cleaning effect, choose a sufficiently lighted environment with less dust and cleaner air.

1. Put on the anti-static gloves and remove the lens; keep the mount on the camera body downwards and use the air blower to blow the dust off the surface of the reflector and focusing screen (For a more desirable cleaning effect, give a few quick puffs through the air blower towards any place where the camera is not present before using the air blower, so as to discharge some tiny dust getting inside due to

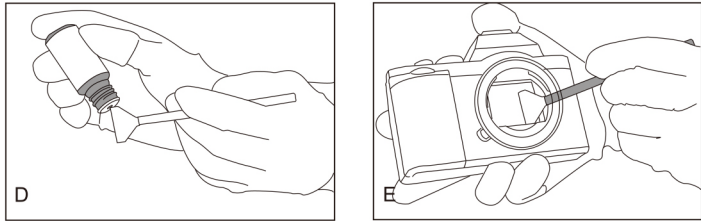


inappropriate storage of the tool. The dust on the focusing screen, viewfinder and reflect will not appear in the photo and affect the imaging quality. Note: do not rub the focusing screen).

2. Turn on the camera and enter the menu. In the case of DSLR, select the manual cleaning mode in "Sensor cleaning" (see the instruction for details, as camera models differ in entering the menu of cleaning mode). Press the shutter key, and the reflector will automatically lift to open the shutter (in the case of mirrorless camera, start cleaning directly after removing the lens).



3. Give a few puffs into the air blower, and use it to blow the dust and hard grain off the sensor surface. If the dust has been blown off, there is no need to use the cleaning swabs; if not, get out the cleaning swabs sealed in the vacuum package (note: different models of swabs must be used correspondingly). Use the dry swabs first. Tilt the swab about 60 degrees until it touches the sensor surface, and then start cleaning from left to right, and reverse the swab to clean from right to left (the swabs are disposable and can't be used again). Check the sensor, and if any stains are still found there, get out a new swab and wet the swab tip by spilling one or two drops of the sensor cleaner on it, and then follow the previous steps until the sensor becomes clean and neat (make sure you're applying a gentle, even force when carrying out the cleaning). If there is any amount of cleaner remaining on the sensor surface, you just need to get out a new swab to rub and absorb it. After the sensor is cleaned, turn off the camera, mount the lens and check the cleaning effect.



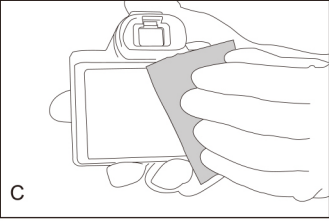
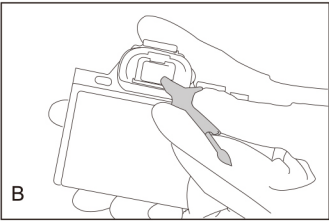
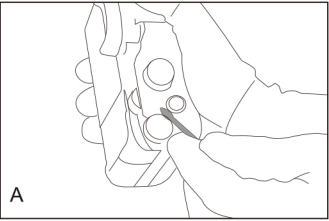
4. You'll probably be unable to create a dust-free effect from the f16 aperture as you might not perform the cleaning under a dust-free environment. However, the cleaning swab may help you remove stubborn dust, sticky grease and fingerprint on the sensor which ordinary cleaning tools cannot handle.

· Camera cleaning

Possibly required tools: anti-static gloves, lens cleaning cloth, dust-free cotton swabs, air blower, camera cleaning brush, screen cleaner, lens cleaner, contact-point conductivity solution and wet wipes.

1. Put on the anti-static gloves (optional) and carry out an overall cleaning of the camera body by using the air blower in cooperation with the brush.

2. For stubborn stains in the cracks between the camera keys, or in the corners of the flipping screen, built-in flash lamp, hot shoe, card holder, battery cabin and data interface, wrap the dust-free cotton swab with the camera cleaning cloth and dip a small amount of screen cleaner to clean them.



3. You may wrap the dust-free swab with the cleaning cloth to clean the viewfinder. Make sure you do the cleaning with a gentle force.

4. Use the wet wipe, or the used lens cleaning cloth to clean the camera body. VSGO wet wipe has anti-bacteria effects.

5. Use the contact-point conductivity solution to clean the contact point of the mount on the camera body so as to remove the stain and delay its oxidation process, increase the conductivity and ensure smooth connection between the lens and the camera body.

6. Spray a proper amount of screen cleaner on the screen cleaning cloth and use the wetted cloth to rub the screen (or alternatively the used lens cloth)

· Precautions

1. Immediate cleaning of the camera after use helps keep its appearance in neat conditions and elongate the device's service life, guarantee perfect picture quality and maintain its value in any case of exchange.
2. The sensor cleaning swabs are disposable. Repeated use may cause secondary contamination and affect the cleaning effect, or even cause damage to the sensor.
3. If some stubborn stains cannot be removed even after you have used the cleaning tool following the correct steps, please contact the manufacturer's service center and do not try to remove them forcibly.
4. Do not use the lens or sensor cleaner under low-temperature or freezing environment.
5. Put the device at a place out of children's reach in case that they mistake it as a toy or food.
6. Perform the cleaning strictly in accordance with the operation manual and instruction. Users themselves shall be responsible for any damages caused by their violation of the operation manual or failure to clean the device following the correct steps. If you have any enquiries, please contact our service staff at support@51vsgo.com.