



# JUST Sensor Multipack Digital Camera Cleaning Kit Instructions for use



This kit contains four products.  
All the products supplied must be used in accordance with these instructions.

Eclipse / E2 Cleaning Fluid - 15 ml sampler  
Used for cleaning lenses and Digital SLR sensors - both CCD and CMOS types.

Pec\*Pads - Lint free wipes for cleaning lenses.

Sensor Swabs - Clean room manufactured tools for cleaning digital SLR camera sensors (CCD and CMOS types).

Flexi Swabs – Foam swabs for removing individual spots.

After using the products supplied in this kit, please dispose of the components responsibly. You may obtain replacement packs from [www.cameraclean.co.uk](http://www.cameraclean.co.uk) or your local retailer.

## ECLIPSE / E2 OPTICAL CLEANING FLUID

ECLIPSE lens cleaner is the highest purity lens cleaner available. It dries as quickly as it can be applied, leaving absolutely no residue. Eclipse can be used to clean non-coated sensors. E2 is designed for use on all sensor types. Please refer to [www.cameraclean.co.uk](http://www.cameraclean.co.uk) for a camera compatibility list.

When used with PEC\*PAD photo wipes, it is possible to clean only the portion of lens which is dirty eliminating "hazy swirls".

For lens cleaning dispense several drops onto a clean, folded PEC\*PAD and lightly wipe surface in a single direction. Refold pad to expose a clean side and re-wipe as necessary. If streaks remain, use a clean pad each time. Other lens tissues may not work as well, and some experimentation may be required.

Additional supplies of Eclipse are sold in 59 ml. (2 fl. oz.) bottle with dropper applicator.

ECLIPSE is the recommended optical glass cleaner for Tokina Hoya Kenko USA, the US distributor for Hoya filters and Tokina lenses

### Caution.

Eclipse is highly flammable. Contains Methanol.  
The product burns with no visible flame. Keep away from heat, flame, sparks and ignition sources. Do not get in eyes. Irritation may occur. Wash eyes thoroughly with plenty of fresh water. Harmful if swallowed. Induce vomiting. Avoid breathing vapour. May cause headache or nausea. Use only in a well ventilated area. For more information refer to MSDS.

### PEC\*PADS

PEC\*PADs are extremely strong, lint-free, soft and pure (99.999%) Photo Wipes. When PEC\*PADs are used with Eclipse they are ideally suited for cleaning camera lenses.

### Caution

PEC\*PAD is not recommended for cleaning Digital SLR Camera sensors. It is not the same material used in the Sensor Swabs. Photographic Solutions does not approve or warranty the sensor or any camera part from any damage caused by using non approved products.

### SENSOR SWABS

Sensor Swabs are clean room manufactured cleaning tools designed to clean the delicate CCD or CMOS sensor inside a Digital Single Lens Reflex (DSLR) Cameras.

### IMPORTANT

To perform a cleaning procedure, it is necessary to open the shutter on the camera to gain access to the sensor. It is essential that you are fully aware of how to open the shutter and keep the shutter open while cleaning the sensor. If the shutter closes while cleaning is taking place **the camera will be damaged**. Please refer to the camera manufacturer's instructions on how to open the shutter for cleaning purposes. If you are not 100% confident in this process, please return your camera to the manufacturer for sensor cleaning.

### Sensor Swab Cleaning Procedure (please refer to pics below)

- (1) Check you have the correct size Sensor Swabs for your model camera.
- (2) Prepare a clean, dust-free area with space for the camera, the Sensor Swabs and the Eclipse.
- (3) Cut open a Sensor Swab polythene bag at the handle end. Remove the lid from the Eclipse bottle.
- (4) Remove the lens from the camera and open the shutter according to the manufacturer's directions.
- (5) Remove the swab from the bag and squeeze 2 - 4 drops of Eclipse onto the end of the swab (Pic 1.).
- (6) Insert the swab into the camera and starting at one end of the sensor (Pic 2.) carefully wipe the swab down the length of the sensor in one direction (Pic 3.). until the complete sensor has been wiped (Pic 4.) Then reverse the swab (Pic 5.) and wipe in the opposite direction (Pic 6.) until the swab is back at the starting point (Pic 7.). Note how each swipe uses a fresh side of the swab.
- (7) Carefully remove the swab and close the camera shutter.
- (8) Refit the lens and test.
- (9) Repeat if necessary with a fresh swab. Never reuse a swab.

Refer to [www.cameraclean.co.uk](http://www.cameraclean.co.uk) or [www.photosol.com](http://www.photosol.com) for further guidance.

### Precautions

Make sure that you are confident in opening and closing the shutter for the cleaning process. Ensure that contaminating particles cannot fall from your body or clothing into the shutter chamber during the cleaning procedure. Typically, contaminating particles are too small to be seen with the naked eye. Do not over saturate the swab with Eclipse. 2-4 drops is sufficient. The fluid should evaporate almost immediately after swiping. Practice first until you are confident in the procedure.

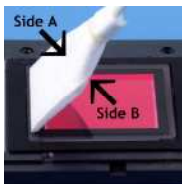
### FLEXI SWABS

These foam based swabs can be used dry to remove individual particles of contaminating material, or in conjunction with one or two drops of Eclipse to clean more stubborn marks. The tip easily bends to reach inaccessible areas within the camera.

Note: Flexi Swabs are not clean room manufactured and should be used with caution on camera sensors. As with Sensor Swabs, it is necessary to open the shutter to gain access to the sensor. The user must be confident in performing this action before using Flexi Swabs. Premature shutter closure during cleaning will cause damage to the camera. It is the users responsibility to ensure the shutter remains open while cleaning.



Pic 1.



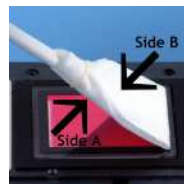
Pic 2.



Pic 3.



Pic 4.



Pic 5.



Pic 6.



Pic 7.

### CCD Sensor Guarantee

Photographic Solutions, Inc. guarantees that it's Sensor Swab and Eclipse products will cause no damage to the CCD or CMOS sensor when used in accordance with the instructions provided by the camera manufacturer and/or Photographic Solutions, Inc. (PS) If it is determined that these products caused physical damage to the sensor, PS will reimburse the camera owner for the full cost of repairs upon presentation to PS of proof of purchase, camera manufacturer's repair invoice and the damaged sensor. *Use of non-approved methods, procedures or products will void this warranty.*