

Now that the firmware on
your camera is updated:

Clean camera/lens

- Clean work area
- Brush body
- Blow lens and card slots
- Clean contacts and hot-shoe

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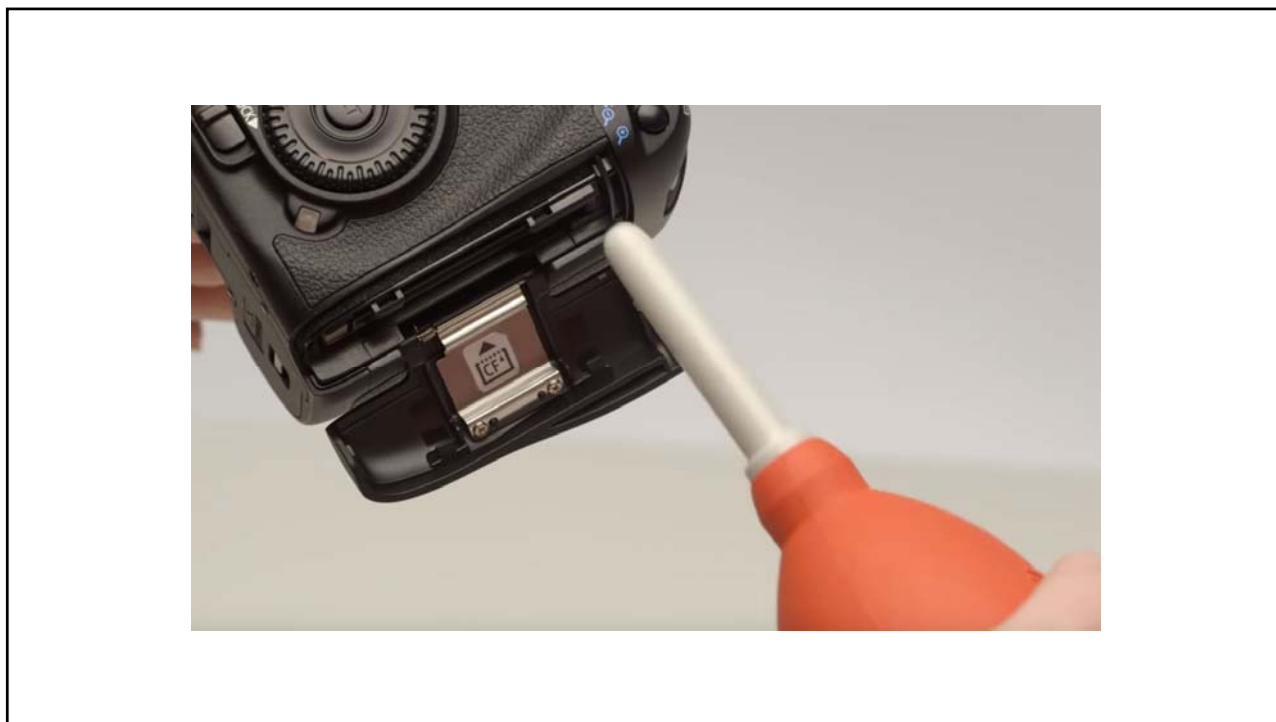
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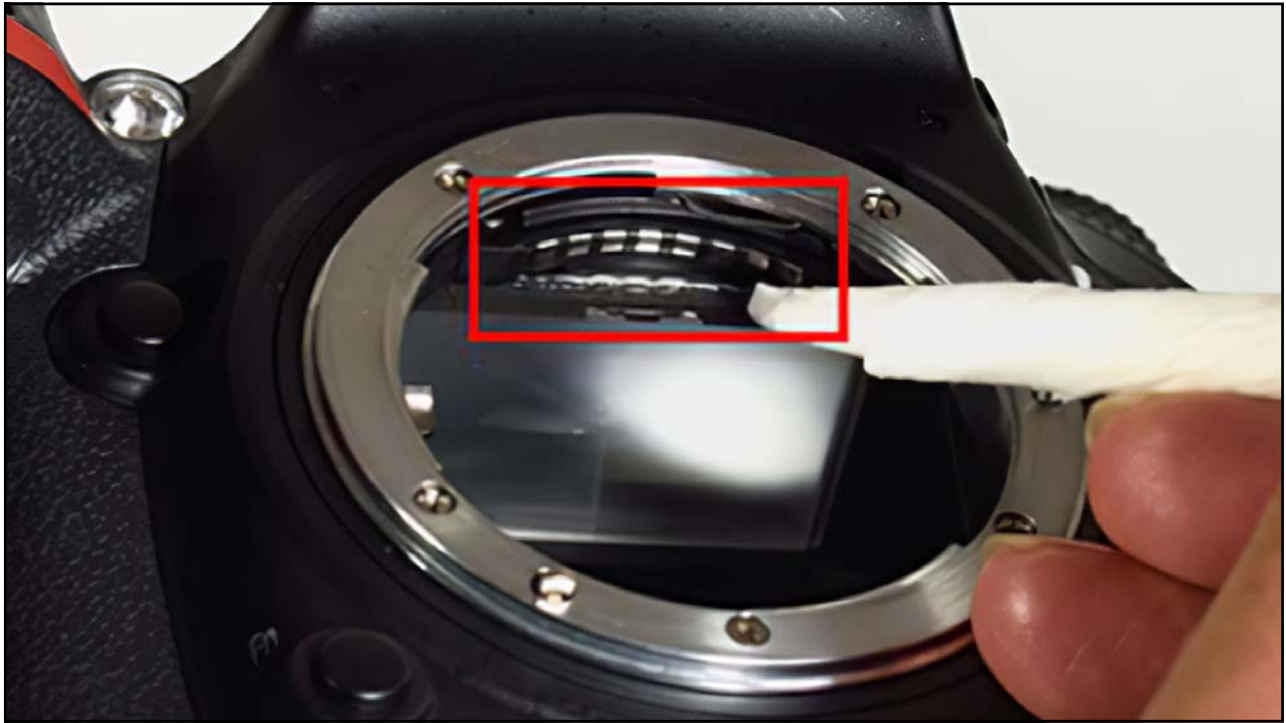
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What is sensor dust and what does it look like?

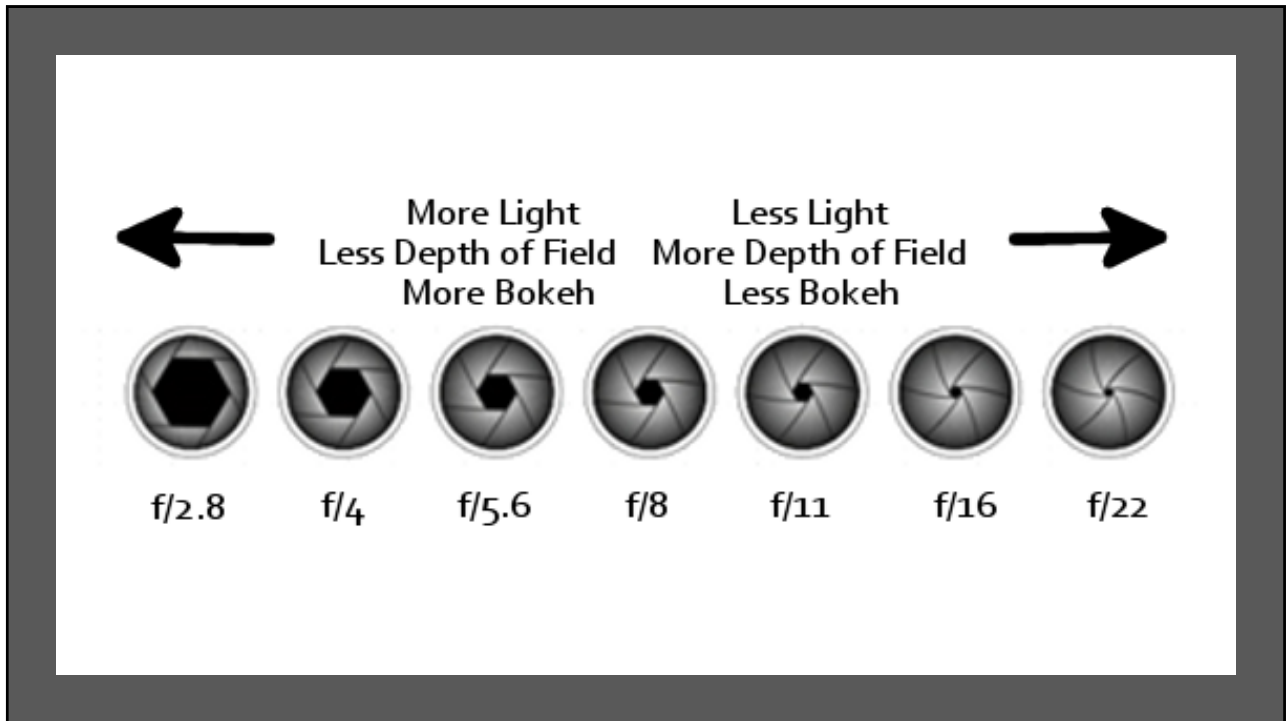
Every time you change a lens on your camera, you are exposing the inside to potential dust and dirt contaminants.

You should try to protect the inside of your camera as much as possible when changing lenses—it goes without saying that you should not change a lens in an environment that will lead to unnecessary dirt entering your camera, such as a sandy beach or on a windy day—but obviously it is not always possible to do this. Inevitably, dirt and dust will enter the camera and ultimately show up in your images.

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How to test to see Sensor Dust

1. A simple way to check and see if you have sensor dust is to set your camera to a small aperture such as f/16 or f/22. [Click here for a basic breakdown of aperture.](#)
2. You should also set your camera to the lowest ISO as you are not worried about noise at this stage. [Click here for a basic breakdown of ISO.](#)
3. Take a photograph against something bright white (such as a white wall, piece of paper or cloudy sky) and gently move the camera slightly as you take the photo to help blur the photo and make the dust more visible.
4. Then to check for dust, either inspect the back LCD screen at 100% or load the image into your computer to make this task a little easier.
5. If you see signs of dust (as described and shown above) then you know you need to clean the sensor.

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Dust and Spots on the sensor are inverted from what you see on the back of your camera

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Dry Clean Before Wet Clean

- Camera Self Cleaning Sensor
- Blower (NOT compressed air)
- Static Charged Brush
- **FULLY CHARGE YOUR BATTERY**
- Always work in a clean area
- Learn how to lock your mirror in the up position (and release)

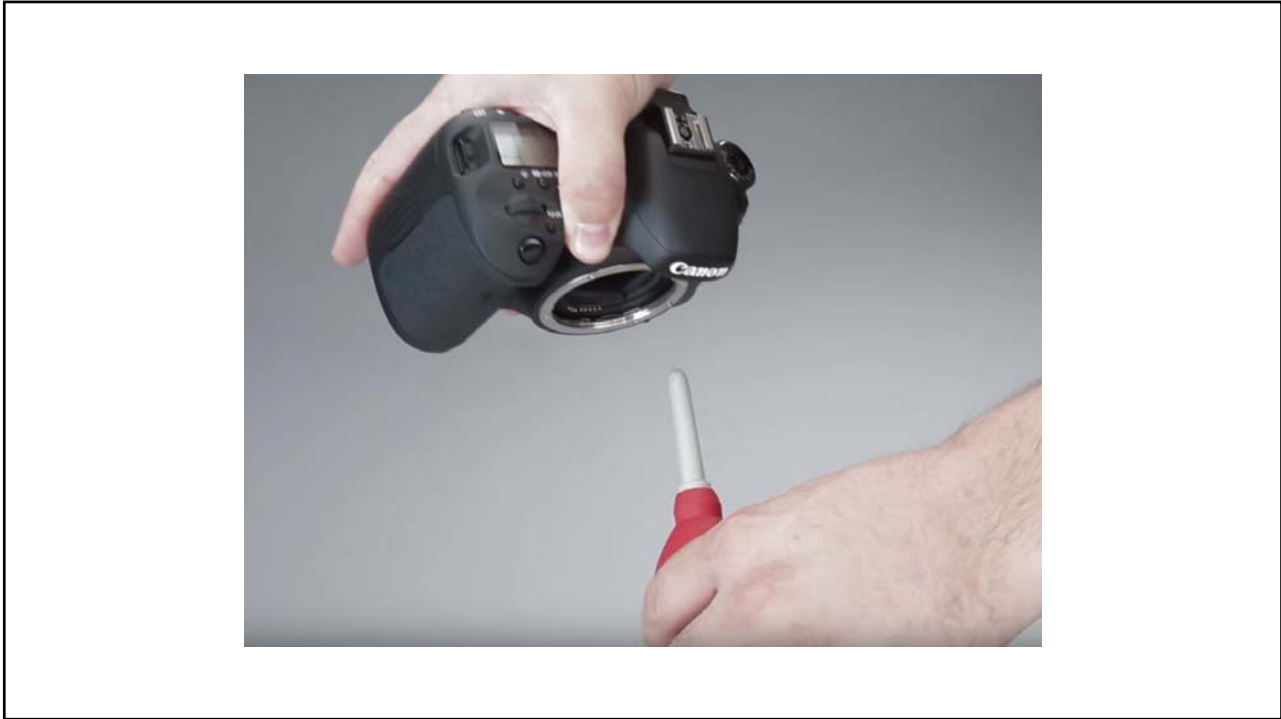
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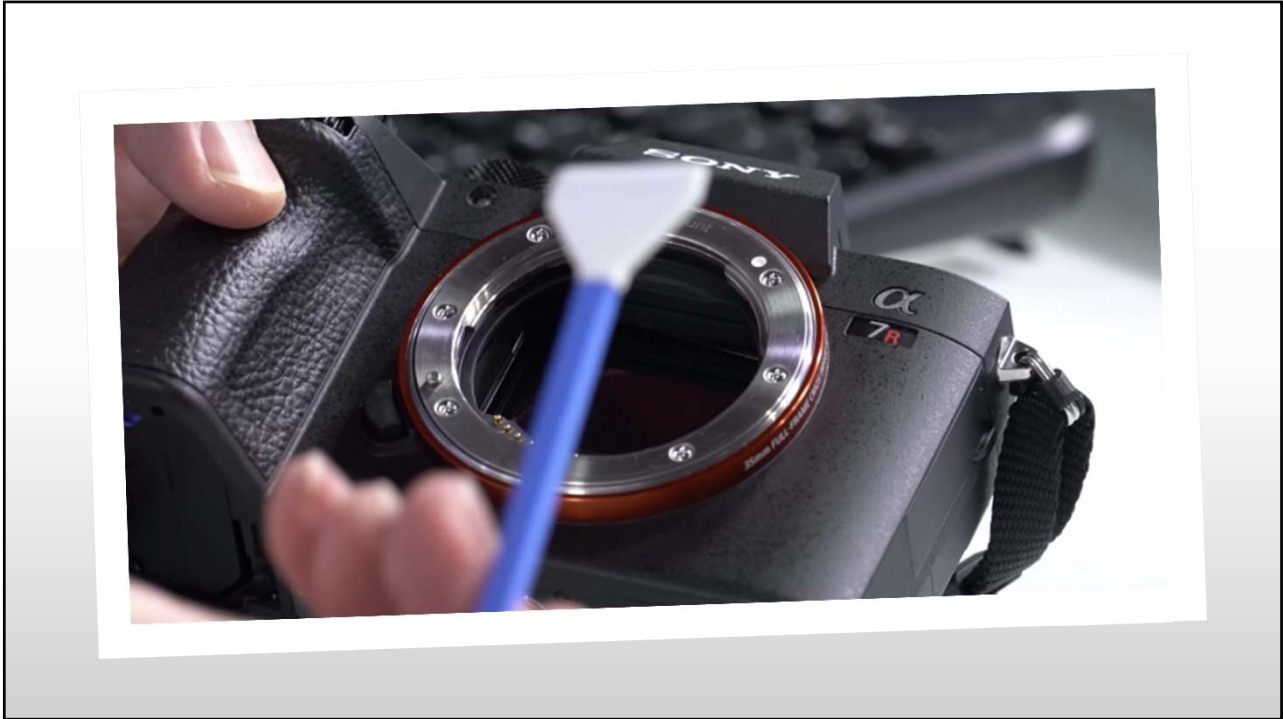
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Now it's time for a wet clean

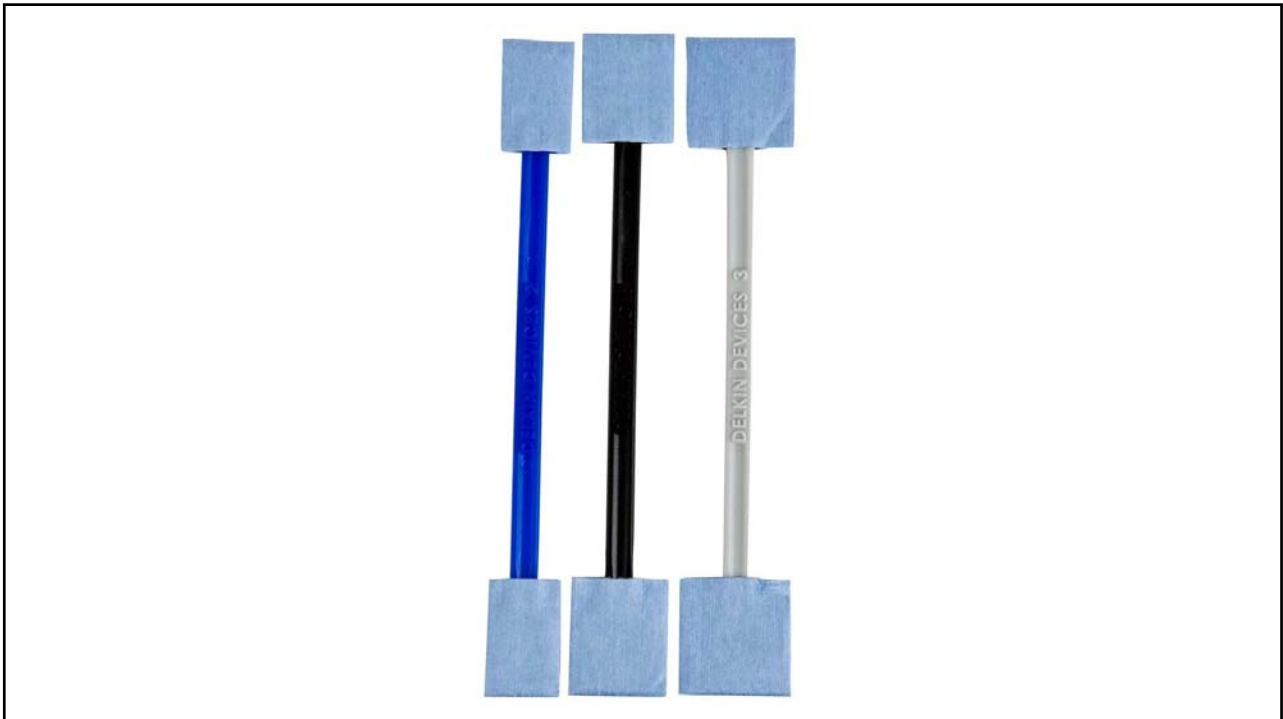
Items you need:

- Cleaning swabs that are lint free and designed for your camera's specific sensor size.
- Camera sensor cleaning solution.
- Hand/bulb air blower.
- Torch or head lamp to see inside the camera and inspect the body.
- Sensor loupe – this is a great cheap item that is a magnifier with LED lights allowing you to clearly and easily see the sensor and inspect for dust and dirt.

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How to wet clean your sensor

- Remove the lens and place the camera on a surface with the LCD facing the floor.
- Select the manual cleaning option to lock up the mirror.
- Remove a sensor swab and using the air blower a few times, blow air to remove any odd pieces of lint that may be stuck to the swab.
- Add two (or three drops max) of the solution to the tip of the swab. Do not oversaturate the swab or you will leave streaks on the sensor. Less is definitely more in this case!
- With great care place the swab onto one side of the sensor and with not too much force, gently move the swab across the sensor in one smooth motion. When you get to the other side, turn the swab over and repeat the process starting from the far side back to where you started. Again, do this in one smooth motion with no great force.
- At this stage, I use a loupe and inspect the sensor to see if I can see if the dust has been removed. If you are not sure, turn off the camera and replace the lens and take a further test shot to inspect for dust.
- If you see some dust remains then you will need to repeat the process but it is important to use another clean new swab. Do not reuse a swab.

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If you see streaks on the sensor then this means that you have used too much solution. Wait a few minutes and then repeat the process with less solution. Two drops is usually enough.

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