



***VisibleDust***

## **WET CLEANING MANUAL**

- Wet Cleaning instructions
- Wet Cleaning best practices
- Liquid Solution Maintenance

For Products:

- Sensor Clean™
- VDust Plus™
- Smear Away™
- Green Ultra MXD-100 Swabs
- Orange DHAP Fabric Swabs

# WET CLEANING MANUAL

Congratulations on your purchase of the renowned VisibleDust wet cleaning technology. This guide has been designed to help you wet clean your sensor in a step-by-step process. You'll find simple instructions and a Frequently Asked Questions section for your convenience. We recommend that you read through this manual thoroughly before proceeding to clean your sensor.

## Eliminate the f/22 test

Prior to cleaning your sensor, VisibleDust strongly recommends using Sensor Loupe™ (sold separately) for contamination inspection. With Sensor Loupe™ you can easily spot dust on your sensor, saving you time from unnecessary cleaning.

Products this guide covers

- Sensor Clean™
- VDust Plus™
- Smear Away™
- Green Ultra MXD-100 Swabs
- Orange DHAP Fabric Swabs

## STEP 1 - APPLY SOLUTION TO SWAB

<sup>1</sup>Remove a swab from its clean room bag carefully. Apply cleaning solution to the appropriate swab until semi-wet. Should your swab dry out, add more solution. Amount of solution varies for swab sizes. Please review the Wet Cleaning Guide (see reverse side) if you are unclear which liquids and swabs are compatible.

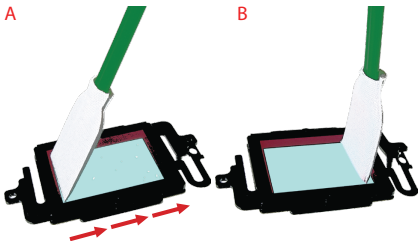


**DO NOT** clean with a contaminated swab

<sup>1</sup>Try not to let the swab touch the adhesive while removing it from the clean bag.

## STEP 2 - CLEAN SENSOR SURFACE

Refer to your camera's user manual to properly expose the sensor chip. Take caution not to touch the chamber walls while entering/exiting. Gently clean across the sensor surface with one uniform pass.



Both sides of the swab may be used to clean. Use each side of the swab only **once** during cleaning. Cleaning with a contaminated swab edge can potentially harm the sensor. You may be required to add additional cleaning solution to the opposite side.

### Important

It is not uncommon for a swab to occasionally rub contaminants off the chamber sides while cleaning. Should any new dust spots become visible, use an Arctic Butterfly® (sold separately) for dust removal.

## STEP 3 - DISCARD & INSPECT

Swabs should be discarded after use. Check your sensor for smears or stains with Sensor Loupe™ (sold separately) and repeat steps 1–3 if needed. For a complete cleaning follow up with an Arctic Butterfly® (sold separately) to remove any dry contaminants that may be present.



Check the sensor surface with Sensor Loupe™ (sold separately)

### Important

Smear Away™ can potentially leave fine streaks or residue if too much solution is used. Please review the reverse side for more information.

# SPECIALITY SWABS

VisibleDust is committed to providing the right tools for any situation. Our speciality swabs are designed for case scenarios where a regular swab isn't suitable. Simply apply the proper amount of solution at clean the designated area.

## Corner Swabs A



Apply one drop of solution

## Corner Swabs B



Gently clean your corners, edges or rub a remote contamination.

## Focusing Screen Swabs A



<sup>1</sup>Apply 1-2 drops of Sensor Clean™

## Focusing Screen Swabs B



Gently clean the focusing screen in one uniform pass.

## Important

To avoid damage to your focusing screen, clean only with Sensor Clean™. Do not use any alcohol/methanol based products to clean your focusing screen.

# CLEANING BEST PRACTICES

VisibleDusts Wet Cleaning solutions are each tailored to remove different traces of contaminations.

VisibleDust strongly recommends you dry clean with an Arctic Butterfly® or Sensor Brush™ first to safely remove hard, dry dust particles. For a full cleaning detail, VisibleDust recommends cleaning in the following order:

- dry clean the sensor
- wet clean the sensor
- dry clean the sensor

## DO NOT:

- clean with a contaminated swab
- apply solutions to incompatible swabs
- apply an excessive amount of solution to the swab
- recycle a swab once you've finished cleaning with it
- allow a swab to dry out.
- apply an excessive amount of pressure when cleaning

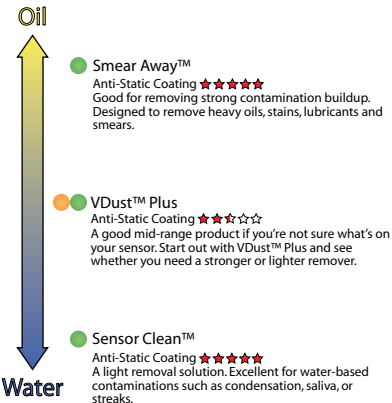
## ALWAYS:

- use the appropriate swab with its matching solution
- stow solutions with their cap on when not in use
- use the proper sensor size specific swab to clean

# STREAKS & SMEARS

## Streaks & Smears

When wet cleaning it's important to use the appropriate swab or streaks/residue may be left behind. Generally, the contaminations on your sensor range from water to oil based. The chart below helps you visualize each products capabilities for removing contaminates.



Orange DHAP Series Swabs Compatible

Green Ultra MXD-100 Swabs Compatible



# CLEANING WITH ALCOHOL

## Cleaning with Alcohol

VisibleDust recognizes that the current market is flooded with alcohol cleaning solutions. To cater to this market, we've developed our Orange DHAP swabs. Simply follow our 3-step instructions, using an isopropyl/alcohol product of your choice.

Alcohol cleans through rapid dehydration and evaporation. However, the extremely dry surface is prone to scratching easier and attracting dust. Alcohol also lacks the ability to dissolve protein based contaminations. Methanol and alcohol based solutions are restricted for airplane travel.

Generally water-based solutions are recommended for anti-static and anti-fogging coatings. Alcohol-based is for oil removal.

# FREQUENTLY ASKED QUESTIONS

**Q: How safe are VisibleDusts liquid solutions on my sensor?**

**A:** Very safe. Our solutions should only be used AFTER you've dry cleaned your sensor with an Arctic Butterfly®.

**Q: How travel friendly are your liquid solutions?**

**A:** Unlike alcohol and methanol based solutions, VisibleDusts products are safe. This makes them ideal for travelling on an airplane.

**Q: How do the Green and Orange swabs differ?**

**A:** The difference between our DXM-100 (Green) and DHAP (Orange) swabs is the type of fabric used in assembly. The Green swabs are compatible with all of our sensor cleaning solutions, so when in doubt purchase the green. If you prefer to clean with isopropyl alcohol, then purchase the Orange swabs. Orange swabs also work best with VDust™ Plus.

**Q: Do your water-based solutions evaporate fast?**

**A:** Yes! When used in conjunction with the appropriate swabs, you won't need to wait long.

**Q: Can I use your solutions to clean other surfaces?**

**A:** Yes; however, each of our products are tailored for different scenarios and VisibleDust recommends using each product for its original intent.

**Q: Can I use just Smear Away™ for all my wet cleaning?**

**A:** No. Smear Away™ is designed with powerful cleaning agents and should be used for severe stains or smear.

**Q: Do your liquids leave any streaks?**

**A:** If too much liquid, or the inappropriate swab is used, then streaks may occur.

<sup>1</sup>Some airports may restrict carry-on liquids

# ABOUT VISIBLEDUST

VisibleDust is a Canadian Company that uses its knowledge of and research into biochip technology to advance the science of removing dust from the surface of delicate objects such as digital SLR sensors. Attracting protein and DNA to the glass-like surface of a biochip for attachment requires special preparation of that surface; because dust has many characteristics in common with DNA, our DSLR sensor cleaning products are able to utilize the same technology to remove dust.

VisibleDust revolutionized the sensor cleaning industry by introducing the world's first Sensor Brush™. Utilizing a patent pending procedure, Sensor Brush™ is capable of attracting dry dust with enhanced static-electric charges. Since then our research and development have introduced cutting-edge products that include the renowned Arctic Butterfly®, our travel-safe cleaning solutions and swabs.

VisibleDust's system is considered to be the safest, most economical and most efficient choice on the market for cleaning your sensor. We are proud to put our biochip knowledge to the test by bringing you scientifically proven products. Backed by our customer service team and high standards, VisibleDust always gives you our best, from our labs to your camera bag.

Website

[www.visibledust.com](http://www.visibledust.com)  
[www.sensorcleaning.com](http://www.sensorcleaning.com)