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K&F Concept 16MM 3-1

K&F Concept APS-C Sensor Cleaning Kit Instruction Manual

Model: 16MM 3-1

1. Introduction

This manual provides instructions for the safe and effective use of your K&F Concept APS-C Sensor Cleaning Kit. This kit is designed for cleaning dust, smudges, and other contaminants from APS-C sized CMOS and CCD camera sensors, as well as other optical surfaces.

Proper sensor cleaning is essential for maintaining image quality and extending the lifespan of your camera equipment. Please read all instructions carefully before proceeding with any cleaning procedures.

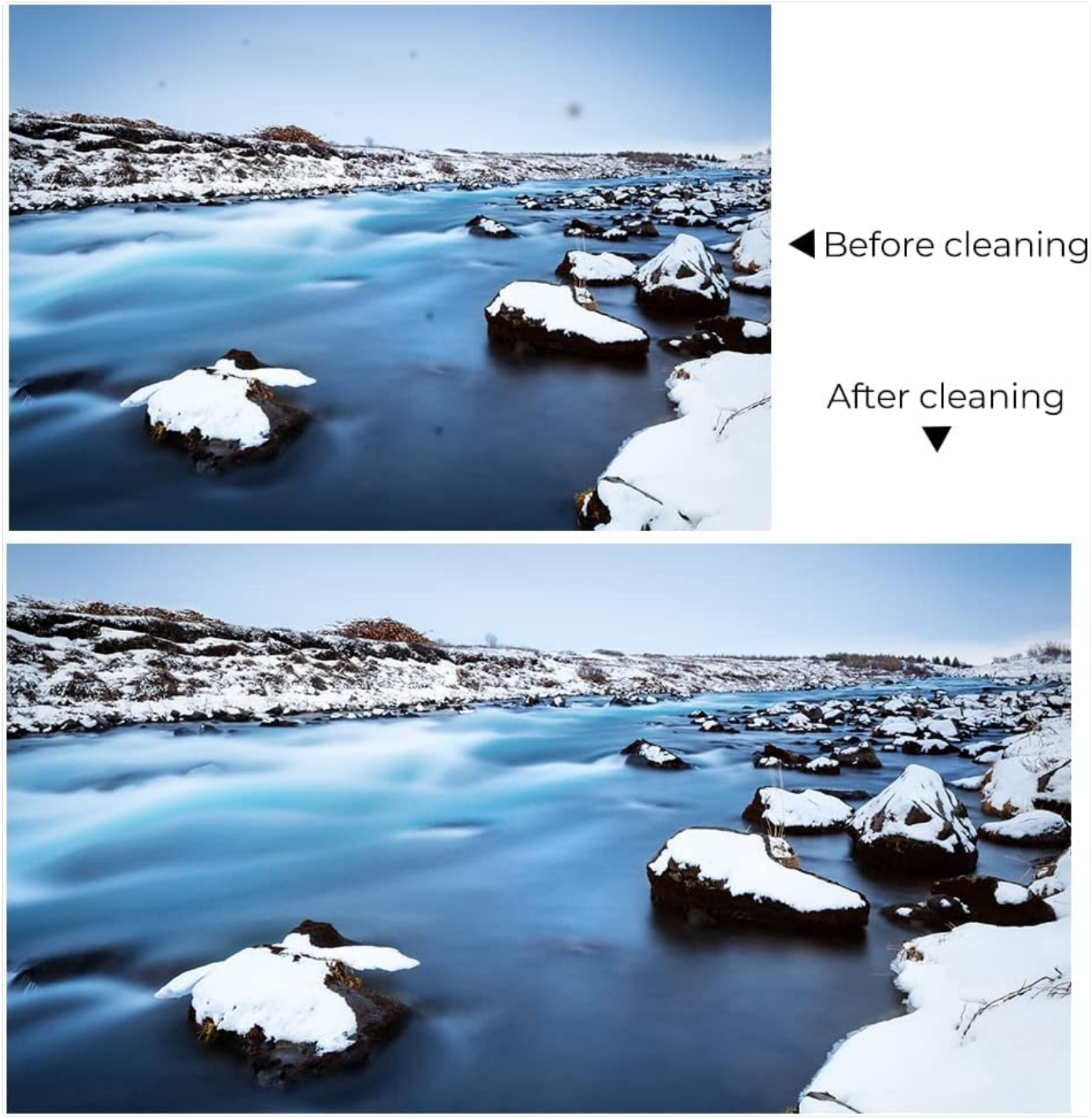


Figure 1: The K&F Concept cleaning kit is suitable for various optical devices, including camera sensors, lenses, filters, and other precision optics.

2. Package Contents

Verify that all items are present in your K&F Concept APS-C Sensor Cleaning Kit:

- 16 x APS-C Sensor Cleaning Swabs (16mm width)
- 1 x 20ml Cleaning Solution
- 2 x Dust-Free Gloves



Figure 2: Contents of the K&F Concept APS-C Sensor Cleaning Kit.



Figure 3: Each sensor cleaning swab is individually vacuum-sealed to maintain cleanliness.

3. Safety Information

- Always perform cleaning in a clean, dust-free environment.
- Wear the provided dust-free gloves to prevent transferring oils and particles from your hands to the sensor.
- Do not touch the sensor surface with bare hands or any material not specifically designed for sensor cleaning.
- Use only the provided cleaning solution. Do not substitute with other liquids.
- Keep the cleaning solution out of reach of children and pets. Avoid contact with eyes and skin. In case of contact, rinse thoroughly with water.
- Ensure your camera battery is fully charged or removed to prevent accidental power-on during cleaning.



Figure 4: The kit includes dust-free gloves made from PU and carbon fiber materials to protect the sensor from contamination.

4. Setup

1. **Prepare Your Workspace:** Choose a clean, well-lit, and dust-free area. Avoid cleaning near open windows, fans, or air vents.
2. **Charge Camera Battery:** Ensure your camera's battery is fully charged. This is crucial as the mirror lock-up function (for DSLR) or sensor cleaning mode (for mirrorless) requires sufficient power.
3. **Wear Gloves:** Put on the provided dust-free gloves to prevent skin oils and particles from contaminating the sensor.
4. **Access the Sensor:**
    - **For DSLR Cameras:** Set your camera to 'Sensor Cleaning Mode' or 'Mirror Lock-up' mode (refer to your camera's manual for specific instructions). This will raise the mirror and open the shutter, exposing the sensor.
    - **For Mirrorless Cameras:** Most mirrorless cameras expose the sensor directly when the lens is removed. Ensure the camera is powered off before removing the lens, then power it on and activate sensor cleaning mode if available.
5. **Initial Dust Removal:** Use an air blower (not included) to gently blow off any loose dust particles from the sensor

surface. Do not use canned air, as it can leave residue.

5. Operating Instructions: Sensor Cleaning Procedure

Follow these steps carefully to clean your camera's APS-C sensor:

1. **Prepare the Swab:** Open one individually vacuum-sealed APS-C sensor cleaning swab. Hold the swab by its handle.
2. **Apply Cleaning Solution:** Place 1-2 drops of the K&F Concept cleaning solution onto one edge of the swab head. Allow the liquid to absorb for approximately 10 seconds. Do not oversaturate the swab.
3. **First Pass:** Gently place the moistened edge of the swab on one side of the sensor. With light, even pressure, drag the swab across the sensor surface in a single, smooth motion to the opposite side. Do not go back and forth.
4. **Second Pass (Dry Side):** Flip the swab over to its clean, dry side. Place this dry edge on the side of the sensor where you started the first pass. With light, even pressure, drag the dry swab across the sensor surface in a single, smooth motion to the opposite side. This helps to absorb any remaining solution and lift residual contaminants.
5. **Inspect the Sensor:** After cleaning, turn off the camera, reattach the lens, and take a test shot of a plain, bright surface (like a white wall or clear sky) at a small aperture (e.g., f/16 or f/22). Examine the image for any remaining dust spots or streaks.
6. **Repeat if Necessary:** If spots or streaks persist, use a new, fresh swab and repeat the entire cleaning process from step 1. Do not reuse swabs.



Figure 5: Visual guide for the camera sensor cleaning process.



Figure 6: Detailed view of applying solution and performing a sensor wipe.



Figure 7: The swab features a soft, scratch-resistant design for safe sensor care.

6. Maintenance

- Store the cleaning solution in a cool, dry place, away from direct sunlight.
- Keep unused swabs in their original vacuum-sealed packaging until ready for use.
- Dispose of used swabs and gloves responsibly. Do not reuse swabs.

7. Troubleshooting

- **Persistent Dust Spots:** If dust spots remain after cleaning, ensure you performed an initial air blow to remove loose particles. Repeat the cleaning process with a new swab. Sometimes, multiple passes with fresh swabs are required for stubborn particles.
- **Streaks on Sensor:** Streaks can occur if too much cleaning solution is applied, or if the swab is not flipped to a dry side for the second pass. Ensure only 1-2 drops of solution are used, and the second pass with the dry side of the swab is performed to absorb excess liquid. If streaks persist, use a new swab with minimal solution and ensure a thorough dry pass.
- **Sensor Not Exposed:** For DSLR cameras, ensure the battery is fully charged and the camera is set to 'Sensor Cleaning Mode' or 'Mirror Lock-up'. For mirrorless cameras, ensure the camera is powered on after removing the

lens and any sensor cleaning mode is activated. Refer to your camera's specific manual.



Figure 8: Example of image improvement after sensor cleaning.

8. Specifications

Component	Specification
Sensor Cleaning Swabs	16mm width, APS-C compatible, individually vacuum-sealed
Cleaning Solution	20ml, Ammonia-Free, Toxic-Free, Low VOC
Gloves	Dust-free, PU and Carbon Fiber material
Kit Contents	16 Swabs, 1 Cleaning Solution, 2 Gloves
Compatibility	APS-C CMOS/CCD sensors (Canon, Nikon, Pentax, etc.)



Figure 9: Dimensions of the 16mm APS-C sensor cleaning swab.

9. Warranty and Support

For warranty information or technical support regarding your K&F Concept APS-C Sensor Cleaning Kit, please refer to the official K&F Concept website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Official K&F Concept Website: K&F Concept Store

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