



KAMELEON SMART FILM

SELF-ADHESIVE FILM

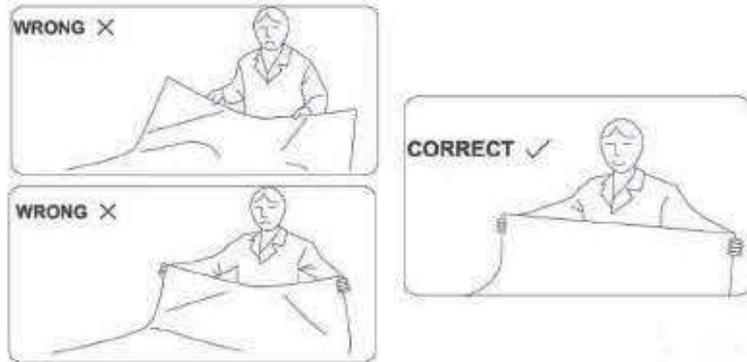
INSTALLATION GUIDE

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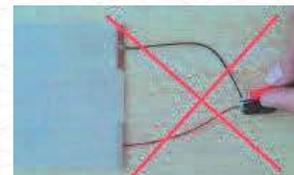
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Important Information

1. Keep Smart FILM flat and straight at all times. Don't let the FILM fold in any way, that will severely damage the FILM. If you need to re-wrap smart film around the paper roll (which we don't recommend), make sure **the adhesive side is facing outside** after re-wrapping.



2. This FILM is a dry install application. Installation surface must be dry and clean. **DO NOT operate material until it is 100% dry!**
3. Keep your working environment as clean and dust-free as possible for optimal results.
4. The Smart FILM's protective layer of the non-adhesive side should be kept on the installation until the installation process is completely finished.
5. You may wear nitrile gloves during installation; remove the adhesive side of the protective layer before starting the installation.
6. Use 60V AC power to the FILM with our transformer or other certified transformer. Each transformer covers different area depends on its Watt parameter.
7. The electrical contact strip ("Busbar") or the FILM edges should **NEVER** be in contact with the metal frame. When integrating 2 pcs of smart film onto one glass, make sure the gap between smart films is 2mm, not touching each other.
8. Don't pull together the busbar wire as it causes a short circuit! The busbar is easy to pull separate with the FILM or glass!
9. After installation use only **Neutral** Silicon Sealant. A silicone with no ACID. Any other Silicone will damage the FILM.
10. The Adhesive film should be used **INDOOR** only with no exposure to direct sun.



Tools & Materials Required

- Plastic scraper (BLUE)
- Cutter blade for glass cleaning
- Lint-free cleaning cloths
- Water or 99% Isopropyl alcohol for glass cleaning
- Neutral Glass Silicon Sealant (Toshiba 381, Toshiba 83, Dow Corning 799)
- Wire stripper



Installation Procedure

Note:

It is recommended not to open air condition during installation

Part 1: Preparing the Smart FILM

Step 1.1: Open the box and place the Smart Self-Adhesive Film (“**FILM**”) on a clean, flat surface.

Step 1.2: Ensure that the adhesive side is facing up. Do not remove the protective layer until you are instructed in this procedure to do so. The adhesive side is usually marked with a label or a red stamp.

Note:

When touching the self-adhesive side, the surface is little sticky, on the other side, no self-adhesive function, the surface is smooth. If there is some dirt on the surface, you can use alcohol to clean. Don't worry, the self-adhesive function will be working well still.

Step 1.3: Testing the FILM (by assessing whether it turns on and off). Connect wires into transformer.

Part 2: Clean the Glass Surface

Step 2.1: Spray the glass with water. Use a cleaning roller or razor blade to remove any dust and/or blemishes for optimal installation. Wipe the glass clean with lint free cloth. The surface of the glass should be completely smooth and immaculate. Repeat this step as necessary.



Note:

If you use glass cleaner spray to clean the glass, clean again with water.

Do not continue to use the material until it is 100% dry!

Step 2.3: Using a soft, lint-free cloth, wipe down the protective layer on the adhesive side of the FILM to remove any dust or contaminants.

Step 2.4: Very carefully, peel back the first 3-4 inches of the protective layer that is covering the adhesive side. Be sure that no dust falls onto the adhesive side during this step.

Step 2.5: Align the self-adhesive FILM edge with the top edge of the glass (busbar does not contact with metal frame). Let the FILM lay on glass flat. When the FILM is perfectly in position, run your finger along the top while pressing down on the FILM so that the applied self-adhesive will hold the FILM in position.

Step 2.6: Pull away the protective layer slowly and allow the FILM to adhere to the glass under its own weight. Starting at the top, use the roller in a horizontal (side-to-side) motion, gradually moving down the glass to disperse any air bubbles. If air bubbles still persist, carefully lift the FILM, check if any dust particles have stuck to the adhesive side and remove them with adhesive tape if so, and let the FILM settle again without air bubbles.

You do not need to connect film to power supply to see bubble. Once installed, if having bubble, it is easy to see it.

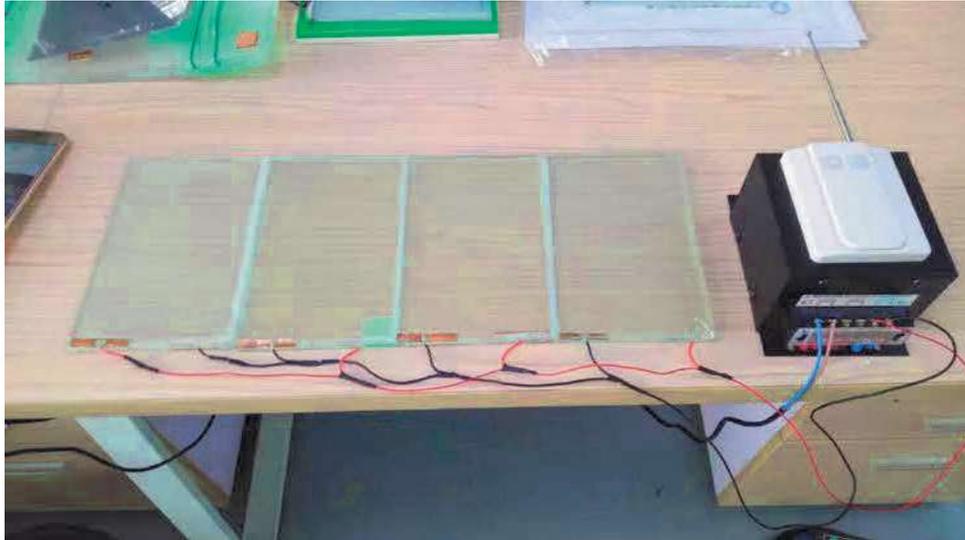
Step 2.7: Repeat the process until the installation is free of any air bubbles. Step 2.8 (below) should be paid close attention to, should air bubbles be trapped on the edges of the FILM.

Step 2.8: Use the soft-edge squeegee to remove any trapped air bubbles on the FILM's edges. If any edges appear to be lifting slightly, the edges will relax once the protective layer is completely removed.

Part 3: Testing and connecting to Power

Step 3.1: Connect black wires together. Connect red wires together. You can use heat melt glue to help organize the wires, securing wires in place.

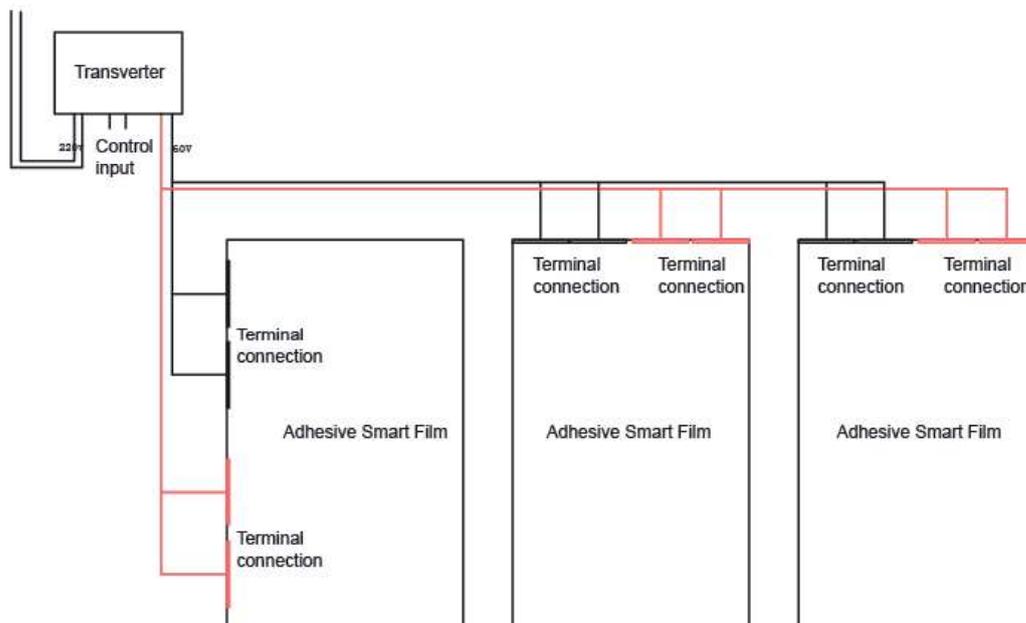




Notes:

In some remotes, there are no batteries included in the remote control.

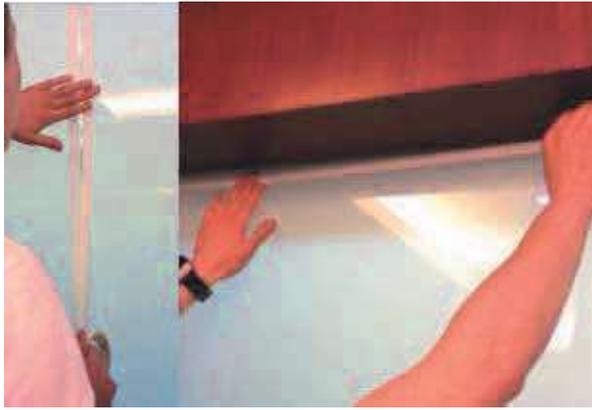
Step 3.2: Connecting to power.



Part 4: Applying Neutral Silicone Sealant

Step 4.1: Use Neutral Silicone Sealant (No Acid) along the FILM edges.

First, stick the masking tape on the edge of the FILM (2mm shorter than the edge of the FILM). Then, apply the silicone glue on the edge of the FILM and use the small hand squeegee to ensure the silicone glue is applied smoothly everywhere. Finally, remove the tape from the FILM.



Note:

They are a many color to every Silicone brand.

Note:

If you do not use Neutral Silicone, any damage to the FILM (such as delamination) is not under our product warranty.

Step 4.2: Let silicone glue dry for a minimum of one day.

Congratulations...your installation is now complete!

Cleaning

Please clean Smart FILM with spray alcohol or a wet dust-free paper/high-quality towel, then clean and wipe glass.



Additional Note

Normally, it is not best to use scissors to cut the PDLC Smart FILM. The company's professional cutting machine should cut the smart FILM for best results. If one must re-size the smart FILM, please use sharp cutter blade. When trimming, the blade should lean towards smart film(kept) by 45 degree, not vertically.

However, even if one trims smart film as suggested, our company still cannot 100% guarantee that the PDLC FILM application process will be problem-free and optimal. Cutting the FILM by oneself is not covered under our product guarante.