

# Cleaning That Must Be Performed Once a Month or More

## Clean the UV-LED Device According to the Procedure of This Manual

The UV-LED devices are important components for ink adhesion. They require periodic and appropriate maintenance. It is important to clean the UV-LED devices with the appropriate timing. If you have any questions as below, contact your authorized Roland DG Corporation dealer.

- For information about the frequency of cleaning needed for your conditions of use.
- For hardened ink and other such dirt that cannot be completely cleaned away.

## When UV-LED Device Cleaning Is Necessary

The UV-LED devices are important components for ink adhesion. They require periodic and appropriate maintenance. It is important to clean the UV-LED devices with the appropriate timing.

Timing	Detail
Once a month or more	To keep a stable printing condition at all times, perform cleaning once a month or more.
When there is a lot of scattered ink mist and the inside of the machine is soiled	Perform this cleaning every day when frequently printing with the print heads at a distance from the print surface or when ink is emitted to locations that protrude from the print surface. If the scattered ink mist is allowed to harden, it may cause malfunctions.
When the bases and irradiation surface of the UV-LED devices are dirty	Refer to the illustration in step 9 of this manual.

## How to Clean the UV-LED Devices

### IMPORTANT

#### Important notes on this procedure

- Before performing this operation, remove any objects to be printed on.
- To prevent the print heads from drying out, finish this procedure in 10 minutes or less. A warning beep sounds after 10 minutes.
- The cloths, alcohol, and similar items used in cleaning are not included with the product.

#### When a warning beep sounds during the UV-LED devices cleaning

- A warning beep sounds 10 minutes after operation begins. Stop work, close all the covers, and then press [ENTER] to end the manual cleaning mode. After that, restart the procedure from the beginning.

Required items		
Anhydrous ethanol or isopropyl alcohol	Cloth (that is not fluffy)	Rubber gloves

**CAUTION** Do not perform cleaning immediately after printing has finished. (Wait approximately 15 minutes after printing finishes.) The area around the UV-LED device is hot and may cause burns.

**CAUTION** When using anhydrous ethanol or isopropyl alcohol, be sure to follow the product's usage precautions. Exercise caution regarding items such as fire, ventilation, and rashes.

**CAUTION** Only use anhydrous ethanol or isopropyl alcohol. Using chemicals (or similar substances) other than anhydrous ethanol or isopropyl alcohol may lead to UV-LED device damage.

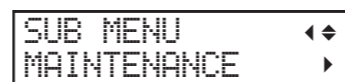
**CAUTION** Use cloth that is not fluffy to wipe off the parts. Do not use a hard material such as metal. Using cloth that is fluffy or a hard material such as metal may lead to UV-LED device damage.

## Procedure

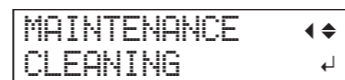
1. Remove the object to be printed on.
2. Press [MENU].
3. Press [▼] several times to display the screen shown below.



4. Press [▶] once, and then press [▼] several times to display the screen shown below.



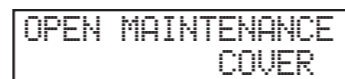
5. Press [▶] to display the screen shown below.



6. Press [ENTER].

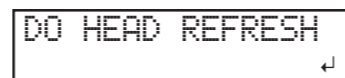
After "NOW PROCESSING.." is displayed and the print heads move, the screen shown below appears.

\* The displayed content differs depending on the model. Open the cover displayed on the screen. (The figure below shows the display of the model with a maintenance cover.)



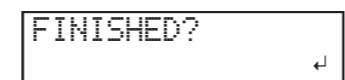
### In the case using LEF 2-200

Refresh the heads if the following message is displayed.



7. Open the cover following the instructions displayed on the screen.

The screen shown below appears.



### IMPORTANT

Do not press the [ENTER] key at this stage. Press the [ENTER] key after cleaning is complete. If you press the [ENTER] key at this stage, wait for the cleaning to finish and restart the procedure from the beginning.

8. Touch the inside of the machine to release the operator's static electricity. Refer to the maintenance page of the user's manual (or master guide) of your model.

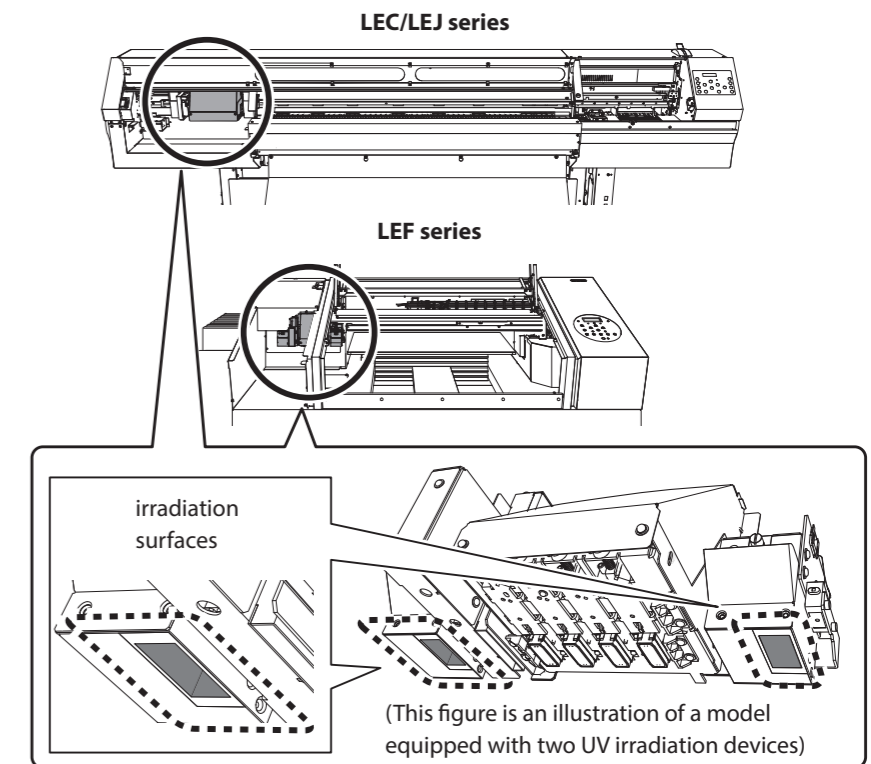
9. Wet a cloth with anhydrous ethanol or isopropyl alcohol, and then wipe off the base and irradiation surface of each UV-LED Device with this cloth.

Wipe the cloth across each UV-LED Device for approximately 10 round trips until all the dirt is cleared away.

### POINT

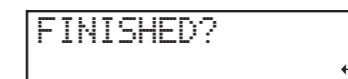
The number of irradiation surfaces differs depending on the model. Check the table below and clean it.

1	LEF-12, LEF-20, LEF-200, LEF12i, LEF2-200
2	LEC-300, LEC-300A, LEC-330, LEC-540, LEF-300, LEJ-640

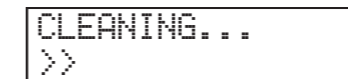


10. When cleaning is complete, close the cover opened in step 7.

11. Press [ENTER].



The screen shown below appears, and then cleaning starts.



When the cleaning is finished, the UV-LED device cleaning is complete.

