

Operating Instructions – Gel Imaging

Model and Manufacturer: FUSION-FX7.EDGE, Vilber

Safety:

- UV radiation can be dangerous for unprotected eyes and skin, therefore we recommend the user to wear UV protective goggles to protect all skin surfaces.
- Do not touch the UV unit after UV exposure. There is a risk of skin burn.
- Do not open the instrument door during imaging operation.
- Do not use gloves when using the computer.
- Inform the Core Facility staff for any safety issue or misuse of the instrument.

1. Start

1.1 Switch on the Gel Imaging instrument to preheat 10 mins before use. Turn on the computer.



Main Switch(Off Position)

1.2 Log in to the Bookitlab system and activate the software (Evolution-Capt Edge).

2. Position The Sample

2.1 Each application must be used with a specific sample tray. The Fusion imaging system supports the

following sample trays.

Application	Samples	Тгау
Chemiluminescence	Blot Titer plate Plant	Black tray Black tray Black tray
UV fluorescence (transillumination)	Gel or any UV transparent sample	UV-Pad or UV transilluminator (1)
Blue fluorescence (transillumination)	Gel or any transparent sample	Sky-Pad or blue conversion screen (1)
Spectra fluorescence (EPI blue, green, red, IR)	Gel	Spectra-Pad or black tray (1)
Colorimetric (White light transillumination)	Gel	White-Light-Pad or White light conversion screen (1)

3. Choose The Application Type

3.1 The Application Selector

3.1.1 On the top left side of the software (red circle), several applications can be selected including chemiluminescence, UV fluorescence, and fluorescence.

3.1.2 You also can click **More** to look for more application or edit your personal application (as the second picture shows below).

3.2 Define the exposure mode(blue circle)

3.2.1 The Auto exposure mode is the most popular for users.

3.2.2 You can also choose Manual or Serial mode to edit your exposure mode.



Faire 701 fage - Legendral Cycle Wind Provide Wind	
Main Interface of the soft	tware
Default Biot Chemi UV gel screen Apps Studio c385nm c480nm c530nm c640nm User FLOU test shenker UV gel Vhite GFP mcherry utra	Selected Application details Light: C530 530nm Filter: F-855 Sensitivity: Full resolution Aperture: 2.8 Auto mode: Standard exposure
Select Cancel More applications to select	or edit
4. Acquire The Image	
 4.1 Click Start to process the image acquisition. 4.2 Click Preview to adjust the aperture and the focus, and to preview 	position your sample.
 5. The Image Display 5.1 Access the Image Display from the main software window display presets. 	Default Inverse Saturation More >



5.2 You may select one of the function on The Lower Image Tab to process the picture that you got.

The Lower Image Tab

5.3 After processing the picture, click Save to save them. (to prevent data loss, it is best to store the pictures in disk D.)

6. Shut down

6.1 Withdraw the sample and trays (If you used).

6.2 Turn off the software as well as the computer.

6.3 Switch off the Gel Imaging instrument.