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**INSTRUCTION MANUAL
OF
GEL DOCUMENTATION SYSTEM
GELVIU**

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COMPONENTS OF THE GEL DOCUMENTATION SYSTEM

1. Camera

- a. Digital camera EOS 1500D
- b. Zoom lens EF-S18-55mm
- c. Camera adapter for continuous operation
- d. Interface cables (USB mini to USB, USB female to female, USB male to female, USB male to male) 1 each
- e. Red filter (58 mm)

2. Main body

- a. Main dark body
- b. Sliding UV transilluminator with 10 UVA bulbs of 8 W each
- c. LED bulb for illumination (4W, 220V, 50Hz), 2 nos.
- d. Power cable

INSTALLATION

Preparing the GelViu.

1 Preparing the hood

- a. Remove all packaging of the hood and place the hood on a flat levelled surface.
- b. Adjust the legs to ensure that all the legs on the hood are resting on the surface.
- c. Place a spirit level on the surface of the window of the transilluminator and check the position of the bubble. Adjust the levelling legs till the bubble is centered. Remove the spirit level.
- d. Slide out the transilluminator and check is the sliding is smooth.

2 Preparing the Camera

- a. Remove the rear lens cap from the lens and the body cap from the camera and attach the lens to the camera.
- b. Connect the charging adapter to the dummy battery adapter. Open the battery cover on the camera and insert the dummy battery adapter taking care of the orientation of the adapter. Close the cover of the battery cover.
- c. Remove the front lens cover of the camera. Place the camera in the camera port provided in the top of the hood.
- c. Align the camera.

3 Connecting the camera to the hood

(for details regarding use of the camera refer to the Canon EOS 1500D manual).

- a. Fit the micro-USB pin of the interface cable into the A/V out port of the camera and USB end into the floating USB port (inside the system) of the GelViu.
- b. Check all the connections from the camera to the USB port on the panel

4 Preparing a computer for use with the GelViu

- a. The GelViu is compatible with computers running Windows 7 and above. Minimum requirements are 1 GB RAM and free space of 2GB ROM. Required to have 1 USB port of USB 2.0 and above.
- b. Install Canon EOS utility software provided by an TechResource authorized service person. Alternately, it can be downloaded from the Canon website.
- c. Install ImageJ and install the appropriate StartupMacros (provided by an TechResource authorized service person). To know the correct procedure please contact us at sales@techresource.in

5 Connecting the hood to a power source

- a. Connect one end of the power cable to the socket at the rear of the hood.
- b. Proceed to plug the other end to the power outlet (220V, 50Hz, sine wave).

6 Connecting the hood to a computer

- a. Fit the USB cable to the USB port (outside) on the body of the Gel doc and the other end of the cable to a USB port on the computer.
- b. Start the computer and open the Canon EOS utility program. The camera should connect to the computer.

The Hood is now ready for use.

OPERATING THE HOOD

1. Supply power to the system by switching on the power outlet.
2. From the front panel switch on the epi white light.
3. Open the door of the hood and place the gel on the UV transilluminator.

OPERATING THE CAMERA

1. Click on the EOS utility software icon.
2. In the dialog box 'EOS Utility' that opens up click on tab 'Camera Settings/ Remote Shooting'.
3. In the 'EOS' window that opens up click on the tab 'Live Video Shoot' button.
4. The 'Remote Live View Window' will open and the gel will be in view.
5. Reposition the gel if required.
8. Close the door of the hood.
9. From the front panel switch OFF the EPI white light and switch ON the UV transilluminator.
10. To capture the image go to the 'EOS' window and click on the icon 'Shutter Button'.
11. The image taken will be saved in the 'My Pictures' folder by default. Assign file name and save in another folder with appropriate name if required.
12. To adjust the brightness use the exposure setting on the 'EOS' window.

Contact us at sales@techresource.in for any queries