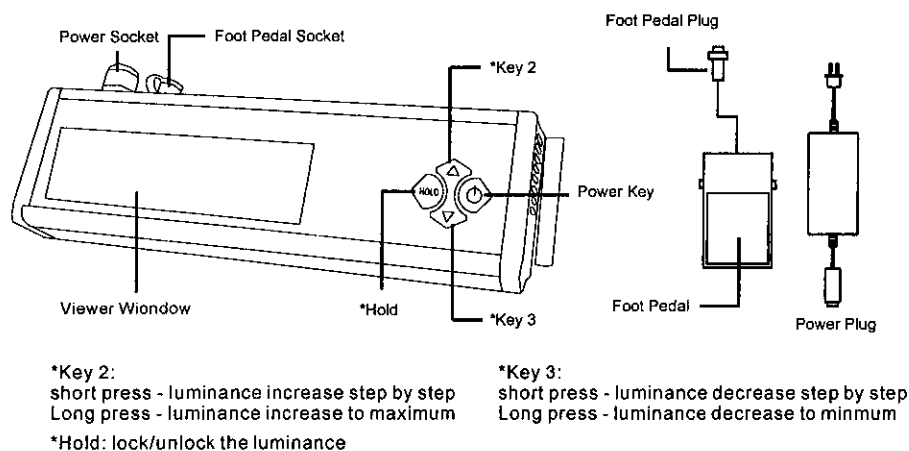


Instruction:

The Handhold LED X-Ray Film Viewer FV-2013 combines advantages of both domestic and foreign film viewers, overcome various defects of traditional fluorescent lamp film viewers, such as low luminance, poor contrast and short lifetime. It is developed absolutely according to the Norm of ISO5580 Industrial radiographic illuminators - Minimum requirements. Thanks to the portable, battery powered, rugged and smart design, FV-2013 is extremely suitable for fieldwork where AC power is not available. And the maximum luminance can be high to 100,000 Cd/M². It will come to be your right-hand man of you for sure.



Characteristics:

1. Genuine cold-light source without radiation, super bright LED: extraordinary angle and high-powered LED chips, maximum power consumption is 30W.
2. Long life-time light source: work time $\geq 50,000$ hours, 10 times longer than fluorescent lamps. With the help of our thermal alarm system, the performance can be even fantastic.
* Work time means the luminance of the light decreased to 70% of original.
3. Li battery powered, can work continuously more than 2 hours at maximum luminance.
4. Fans with temperature depended speed control – Lower noise. If the temperature is higher than 70°C, fan will continue to work for 1 minute when turn off the viewer.
5. Waterproof Protection IP55, Viewing Wet Film Directly.
6. Quick start-up: the start-up time of LED is less than 5ms, not like the fluorescent lamp, no warm-up time is required, and the frequency of start-up will not influence the life-time of LED.

Specification:

1. Maximum luminance: See Product Certificate attached
2. View films to H/D: See Product Certificate attached
3. Average color temperature = 7000K
4. Uniformity: See Product Certificate attached
5. Diffusion Factor: See Product Certificate attached
6. Maximum size of view windows: 6"×1.8" (150×45mm)
7. Li battery: 12VDC 6000mAH
8. Charger: 47~63Hz 85~264VAC (Full range)
9. Power consumption: 50W
10. Dimension: 12"×3.3"×1.6" , 304×85×40mm (L*W*H)
11. Weight: 2.2 lbs (1Kg)

Usage tips:

- 1.1 **Foot mode (Recommended):** Connect the foot pedal or short press the "HOLD" key, the viewer will start-up in the minimum luminance, with its' help, your eyes will be protected. Whenever you press down the foot-switch, the viewer will start-up in the luminance that you have already set, you can adjust the luminance by press "key2" or "key 3".
If foot pedal is connected, "HOLD key" will be disable.
- 1.2 **Hand mode:** Disconnect the foot pedal, the viewer will start-up in the luminance that you have already set, you can adjust the luminance by press "key2" or "key 3". If the luminance can not be adjusted, please short press the "HOLD" key to unlock.

Trouble Shooting:

Case 1: No matter how to press "key2" or "key 3", the luminance is low and fixed.

Solution: If you have connected the foot pedal, the viewer will enter into Foot mode automatically. So you have to press the foot pedal or disconnect the foot pedal.

Case 2: Turn off the viewer, but the fan is still working..

Solution: There is a temperature control system inside, If the temperature is higher than 70°C ,fan will continue to work for 1 minute when turn off the viewer.

Case 3: The luminance decreased automatically when working.

Solution: There is a temperature control system inside, If the temperature is higher than 70°C ,in order to protect the LEDs, the luminance will decrease to a safe level. if the temperature go down to 60°C, the luminance will increase back to the previous level.

You can connect the foot pedal, then increase the luminance by press "key2".