

Operation Manual Film Viewers



FV-PC/FV-PCS/FV-PXL/FV-FP

FV-PC^{Pro}/FV-PCS^{Pro}

General Information:

These operating instructions contain important information on the safety, use and maintenance of the Film Viewer and its components. The purpose of the operating instructions is to protect you, prevent damage to the device and allow trouble-free operation. Read thoroughly these operating instructions carefully before the first-time use of the instrument.

Safety Instruction:

- The use of safety goggles strongly recommended.
- Never use this unit in any manner not specified in these instructions.
- Anyone who is not familiar with the operating instructions should not use the Film Viewer and its components or must be supervised when using it.

Starting up the unit:

FV & FV^{Pro} Series

- Plug in the mains power cord in the AC wall socket and the other end connector in the Film viewer connector. (bottom left side).
- Before turning ON connect Foot switch.
- Turn ON Power switch. Once power is ON the switch will glow RED.
- Use intensity knob to control the intensity of light.
- Adequate the Screen frame size using power button in keypad.**
- After use reduce the intensity to minimum level and Turn-OFF main switch.

Description of Controls:



Technical Specifications

Description	LED FV - FC	LED FV - PCS	LED FV - PXL	LED FV - FP
Viewing Area (LXW)	60 X200 mm 2.5" X 8"	100 X300 mm 4" X 12"	110mmX430mm 4.5" X 17"	355mmX430mm 14" X 17"
Film Density	4 D	3.5 D	4 D	3.5 D
Uniformity Factor(g)	≥ 0.75	≥ 0.75	≥ 0.75	≥ 0.75
Diffusion Factor	0.72	0.72	0.72	0.72
Input Voltage	110-260 VAC, 50 – 60Hz	110-260 VAC, 50 – 60Hz	110-260 VAC, 50 – 60Hz	110-260 VAC, 50 – 60Hz
Rated Output	60W	90W	240W	600W
Surface Temp.	< 48° C (118.4 F)	< 48° C (118.4 F)	< 48° C (118.4 F)	< 48° C (118.4 F)
Dimension (LXWXH)	385 X 80 X175 mm	500 X 80 X 217 mm	620 X 80 X 217 mm	620 X 80 X 455 mm
Housing	Powder Coated Aluminum	Powder Coated Aluminum	Powder Coated Aluminum	Powder Coated Aluminum
Max Brightness	>120,000 cd/m2	>70,000 cd/m2	>100,000 cd/m2	>70,000 cd/m2
Intensity Control	From 10% - 100%	From 10% - 100%	From 10% - 100%	From 10% - 100%
Cooling	High capacity fans with aluminium heat sink	High capacity fans with aluminium heat sink	High capacity fans with aluminium heat sink	High capacity fans with aluminium heat sink
Weight	3kg (6.6 lbs)	4.55 Kg (10 lbs)	5Kg (11 lbs)	10.20 Kg (22.48 lbs)

Description	LED FV - PC ^{Pro}	
	LED FV - PC ^{Pro}	LED FV - PCS ^{Pro}
Viewing Area (LXW)	60 X200 mm 2.5" X 8"	100 X300 mm 4" X 12"
Film Density	4 D	3.5 D
Uniformity Factor(g)	≥ 0.75	≥ 0.75
Diffusion Factor	0.72	0.72
Input Voltage	110-260 VAC, 50 – 60Hz	110-260 VAC, 50 – 60Hz
Rated Output	65W	95W
Surface Temp.	< 48° C (118.4 F)	< 48° C (118.4 F)
Dimension (LXWXH)	395 X 80 X175 mm	515 X 80 X 217 mm
Housing	Powder Coated Aluminum	Powder Coated Aluminum
Max Brightness	>120,000 cd/m2	>70,000 cd/m2
Intensity Control	From 10% - 100%	From 10% - 100%
Cooling	High capacity fans with aluminium heat sink	High capacity fans with aluminium heat sink
Weight	3.12 kg (6.8 lbs)	4.6 Kg (9.9 lbs)

Caution, Cleaning & Storage

- It consists high power SMD LED's panel, so care shall be taken while viewing the films.
- Normal temperature of viewing screen is 40 to 50° C/ 104 to 122 F, so if temperature rises abruptly, turn off the film viewer and check the cooling fans.
- Do not use the film which is not completely dried.
- Do not use abrasives, solvents, or lubricants to clean the unit.
- Store radiographic film viewer in the original packaging & in a dry room which is free from dust and humidity.
- Do not remove densitometer probe while in on state.**

Troubleshooting

Problems	Actions
1. Failure to power ON or no illumination of viewer screen	Check the power cord is connected properly. Check the ON/OFF switch is in ON State Connect the foot switch cord Properly Press the foot switch
2. Instrument heating too much	Check if the cooling fans are working. Check the airflow direction of the fans
3. Sensor error **	Check the densitometer sensor probe should be connected properly.

Product Warranty

The film viewer is warranted for period of 12 month from date of purchase. The warranty is void, if equipment is used in a non-professional manner, resulting in damage or if repair is carried out other than authorized service center & warranty seal is broken.

Kit Contains

The ordering unit is supplied with the following accessories:

- Film Viewer
- 5 steps Density Strip with PVC Cover **
- Foot Switch
- Densitometer Detachable Sensor Probe**
- Mains Cord
- Operating Manual & Certificate of Conformity

Zeroing Procedure & Measurement**

- After starting up, the densitometer should be done zero, prior to taking measurements. Zeroing should be done on a stable illumination level of the area where the reading will be taken. The zero procedure is described below:
- Clear the illumination platform where the probe is to be placed.
- Hold the probe arm and perpendicular on illumination platform.
- Adjust the light intensity at a recommended fixed value and press the Zero push button on the instrument keypad.
- The display unit will show "0.00", that means instrument is ready.
- Once zeroing is done the operator can start taking readings of the radiography films instantly. It is strongly recommended to take the readings on the same area where the zeroing procedure was done for the best results

- You can take reading by pressing the push button on the probes or by pressing the READ button on the instrument.
- If in case reading does not stay stable even after following the previous procedure, contact the manufacturer for support or troubleshooting.

Note

- If the instruments show random values that means the zeroing procedure should be done again.
- It is also recommended if you are holding or taking the reading for long time, then it is important to do zeroing procedure after regular intervals.
- Press  Key To Change The Window Size works only on FV-PC^{PRO} & FV-PCS^{PRO} models
- ** Applicable for FV^{Pro} series

Thank you for your business!

WE trust, we have catered as per your expectations...



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