

VP-27: MEIA INITIALIZATION PHOTO CALIBRATION (pg 1 of 3)



Time: 20-50 minutes

Purpose: To adjust the high voltage to yield the specific intensity value of the M Fluorescent Standard

1. Edit system file 31.11 MEIA STD B to 0:
 - SYSTEM
 - FILES
 - 31.11
 - DISPLAY
 - 0
 - STORE

2. Edit 31.12 MEIA STD M to M1 value:
 - FWD
(SYS 31.12 MEIA STD M is displayed)
Enter M1 value from M Standard label.
 - STORE
3. Return to READY menu:
 - EXIT
 - EXIT
 - EXIT
4. Record current MEIA R= value:
 - a. Turn Lamp ON:
 - MONITOR
 - HND_CNTL
 - OPTICS
 - LAMP (ON)
 - b. Allow MEIA Optics to warm up at least 30 minutes.

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4. (cont)
c. Record R= value (Figure VP27-1).

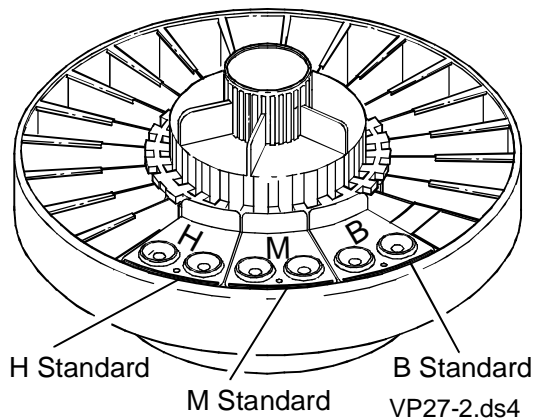
ME	I	A	P	=	X	X	X	X	R	=	X	X	X
I	N	D	E	X					L	A	M	P	

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5. Return to READY menu:
■ EXIT
■ EXIT
■ EXIT
6. Edit 31.25 MEIA LMP Ref to recorded R= value:
■ SYSTEM
■ FILES

6. (cont)
■ 31.25
■ DISPLAY
Enter R=# recorded in step 4c.
■ STORE
7. Return to READY menu:
■ EXIT
■ EXIT
8. Load carousel and place into analyzer
(Figure VP27-2).
9. Perform Photo Calibration:
■ MONITOR
■ CAL
■ PHOTO
■ START
10. Evaluate printout (See example in
Figure VP27-3).

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LCx MEIA PHOTO CAL

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SERIAL # 1

SYSTEM REV XX.XX

PARAMETERS

	<u>Previous</u>	<u>Current</u>	<u>% Diff</u>	<u>Specification</u>
Slope	7.4765	7.4765	0.00	<i>Slope</i> $\pm 20\%$
Intercept	-40.7206	-40.7206	0.00	<i>Intercept</i> $\pm 20\%$
High Voltage		583.5		
Lamp Intensity		44287		
Lamp Current		9.4		<i>Lamp current</i> 4.2-29.8 mA

INTENSITY

<u>Std #</u>	<u>Initial</u>	<u>Current</u>	<u>% Diff</u>	
B	522	522	0.0	
M	957	950	-0.8	<i>M</i> $\pm 5\%$
H	13452	13452	0.0	<i>H</i> $\pm 10\%$ ($>10,000$ counts)

PRECISION

	<u>Intensity</u>	<u>% Cv</u>	
Static	950.60	0.08	<i>Static</i> $\leq 0.5\%$
Dynamic	949.00	0.09	<i>Dynamic</i> $\leq 1.0\%$

***** LCx MEIA PHOTO CAL PASSED *****

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5 Verification Procedures
LCx[®] Analyzer Service Manual (Text P/N 47278-102)

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Example printout
(Figure VP27-3)

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