QUV Gen 4 Main Controller Simulator

Instructions

- Change the view to **Full Screen** from the View menu or using Ctrl-L
- Click buttons on-screen just like you would when operating the tester – including the USB port. Not all tester functionality is included in this simulator!
- Click the edge of the other screen to switch • between Status and Menu screens (see below)





Pages 47+ are example screens that couldn't be easily integrated into the simulator





















بر F s	Running Step 1 UV	Cycle A	: ASTM	G154	C
	Irradianc 1	e (W/m² /nm) at 2	control wav 3	elength 4	Temperature (°C)
Actual	0.89	0.89	0.89	0.89	59
Set	0.89	0.89	0.89	0.89	60
	Step Time (Hrs:Mins)	Test Time (Hrs:Mins)	Total Tin (Hrs)	ne	
Elapsed	4:43	16:43	59		STOP
Set	8:00	168:00			







STOP 7	Fest Stop Step 1 UV	oped A: /	ASTM (G15	54 C.	••
	Irradianc 1	e (W/m² /nm) at 2	control wave 3	elengt	:h 4	Temperature (°C)
Actual	0.00	0.00	0.00	0.	00	25
Set	0.89	0.89	0.89	0.	.89	50
	Step Time (Hrs:Mins)	Test Time (Hrs:Mins)	Total Tim (Hrs)	e		
Elapsed	4:42	16:43	59			PLIN
Set	8:00	168:00				KON



















Manage Test Timers



Manage Cycles



Calibrate





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Settings

Diagnostics









Manage Test Timers





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Q·LAB	Action at Er	nd of Test:
	Current Selectio	n: Stop + Alarm
	Stop	Alarm
	Message Only	Stop + Alarm
	INOTICE	







C Manage Cycles

*New	А	В	С	D	E	G	Н	Î	J	К	
	Ω	Сус	le Na	me		AST	M G15	54 CN	(CLE	E 1	
Step Fu	unctior	า				Irrad.	с	°C	٦	Time	
🥕 1 U	V					0.89	e	60		8:00	
2 C	onden	satio	n				Ę	50		4:00	
3 Fi	inal - G	So to	step ′								







C Manage Cycles

*New	Α	В
		Cy

Cycle Name

С

D

ASTM G154 CYCLE 2

Н

J

G

Step	Function	Irrad.	°C	Time
1	UV	0.71	60	4:00
2	2 Condensation		50	4:00
3	Final - Go to step 1			

Ε

F

















Q·LAB





C Manage Cycles Edit Step Ε *New А В С D G Delete Step ASTM Cycle Name Add Step Before Step Function Irrad. Add Step After 1 UV 0.89 Cancel 2 Condensation === 3 Final - Go to step 1









Mana *New A	Edit Step	1		
	Function	UV		
Step Function	Step Time	8 :	0	
🧯 1 UV	Irrad.	0.89	BP/IBP	60
2 Condens 3 Final - G [,]	CAT			











		×	
	L M		
		RUN	
	C		







C Manage Cycles













Calibrate



Calibrate Irradiance with smart sensor



Calibrate Temperature with smart sensor



Calibrate Temperature with reference thermometer









🔆 Calibrate Irradiance

Lamp Type











🔆 Calibrate Irradiance

















Calibrate Temperature

Black Panel Sensor (°C) Reference Device (°C)









🔆 Calibrata Irradianco

i Smart Sensor Information

Smart Sensor Type:	UC10/UV
Serial Number:	19-19308-12-UC
Last Calibration*:	6 August 2019
Calibration* Expiration:	6 August 2020

*Calibration refers to the Smart Sensor, not the tester's on-board sensor(s).









Diagnostics

D1 Laboratory Temperature: 29°C
D2 UV Prop: 6°C Int: 200 On: 85%
D3 Condensation Prop: 10°C Int: 30 On: 0%
D4 Water Temperature: 43°C
D5 Controller Temperature: 22°C









? Diagnostics

D7 Software Version: 5.013 D9 Total Energy Elapsed: 1408687 J/m² D10 Hours Since Last UV Calibration: 1 D11 UV% CH1: 55 CH2: 52 CH3: 57 CH4: 53 D12 Dark Prop: 6°C Int:200 On: 8.4%









? Diagnostics

D14 Serial Number: 20-7709-92-SPRAY-RP D15 MAC Address: 10 bd-55-00-00-e5









🦕 Contact Q-Lab

For help visit https://www.q-lab.com/sup









Settings

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Volume



Display Options



Language & Date/Time





Ethernet

Machine Configuration









◄ Volume

X.









Display Options

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Display:

2

Status Screen Brightness:

Main Menu Screen Brightness:

Sleep After:

15 Minutes*

*Recommended







X.





Language & Date/Time







9

Q·LAB







Ethernet

K











K Machine Configuration

X13 Lamp Service interval	400
X14 Door Interlock Delay	1
X22 UV Sensor Calibration Interval	500
X36 UV+Spray Active?	No
X44 Irradiance Low Deviation	0.20









K Machine Configuration

<49 Spray On Time	5
<50 Spray Off Time	0
(500 Serial Number Year	20
(501 Serial Number Unique ID	7709
(502 Serial Number Series Nr	92











Ethernet

Machine Configuration



X.





Expert Parameters

Expert Parameter Group	All
X1 UV Proportional Band	5
X2 UV Integral	200
X3 Chamber High Temperature	Deviation 3
X4 Chamber Low Temperature	Deviation 3
X5 Condensation Proportional E	Band 10









2





Notifications Active M10 End of Test

















4

M10 End of Test

Cycle:	ASTM G154 CYCLE 1
Step Nr:	1 (Condensation)
Test Time (Hrs:Mins):	33:16
Occurred Date:	05-March-2020 09:27
Cleared Date:	05-March-2020 09:28









USB Options

Install New Software

The software on the USB is newer than the version currently running. This will take up to 10 minutes.

Export Diagnostics

Export Virtual Stripchart and Diagnostics files to USB drive. This will take up to 5 minutes.









USB Options Install New Software Install New Installing Software will take 10 minutes, are you sure you want to proceed? Export Diag OK



is newer than ining. This will

and drive. This







USB Options





is newer than ining. This will

and drive. This

Test Suspended A: ASTM G154 C Step 1 UV							
	Irradianc 1	e (W/m² /nm) at 2	control wave	elength 4	Temperature (°C)		
Actual	0.00	0.00	0.00	0.00	59		
Set	0.89	0.89	0.89	0.89	60		
	Step Time (Hrs:Mins)	Test Time (Hrs:Mins)	Total Tim (Hrs)	ne			
Elapsed Set	0:46 8:00	16:43 168:00	748		RUN		



















Manage Test Timers



Manage Cycles



Calibrate





Settings

Diagnostics













Manage Test Timers



Manage Cycles



Calibrate







Settings

Diagnostics













Manage Test Timers



Manage Cycles



Calibrate







Settings

Diagnostics













Manage Test Timers



Manage Cycles





Calibrate







Settings

Diagnostics



Running Cycle A: ASTM G154 C Step 1 UV						
	Irradianc 1	e (W/m² /nm) at 2	control wavel	length 4	Temperature (°C)	
Actual	0.89	0.89	0.89	0.89	57	
Set	0.89	0.89	0.89	0.89	60	
	Step Time (Hrs:Mins)	Test Time (Hrs:Mins)	Total Time (Hrs)	2		
Elapsed	0:48	16:43	748		STOP	
Set	8:00	168:00				















▲ Notifications Active ✓ Cleared ⊗ ▲ i M49 Power Disrupted



Running Cycle A: ASTM G154 C Step 1 UV						
	Irradianc 1	e (W/m² /nm) at 2	control wave 3	length 4		Temperature (°C)
Actual	0.67	0.69	0.62	0.57		57
Set	0.89	0.89	0.89	0.89		60
	Step Time (Hrs:Mins)	Test Time (Hrs:Mins)	Total Time (Hrs)	9		
Elapsed	0:48	16:43	748			STOP
Set	8:00	168:00				









Test Completed A: ASTM G154 C Step 1 UV							
	Irradianc 1	e (W/m² /nm) at 2	control wave	elength 4	Temperature (°C)		
Actual	0.00	0.00	0.00	0.00	58		
Set	0.89	0.89	0.89	0.89	60		
	Step Time (Hrs:Mins)	Test Time (Hrs:Mins)	Total Tim (Hrs)	ne			
Elapsed	4:00	168:00	336		PUN		
Set	4:00	168:0			KON		















Notifications Active M1 Door Is Open









Notifications Active M13 End of Test Shutdown

