

Indent No. : SAC/CPUR/ESSA/2024001483

Indent Title: UV curing system

UV Curing system controller

Technical specification			Vendor's Compliance With values
Sr. No.	Parameter	SAC Supplied Specification	
1.	UV LED head/Lamps	Controller must support simultaneous functioning of at least 2 individual and interchangeable UV LED head/lamps.	
2.	Wavelength	Controller should support UV heads/lamps having wavelength of 365nm, 385 nm, 395 nm and 405 nm.	
3.	Source	LED Source	
4.	Irradiance	Control should be able to deliver peak irradiance 13.5 and 19.5 W/cm ² @ 365 nm with supplied head and focusing lens.	
5.	Dimension of main unit	7"x 5"x 7" or lesser.	
6.	Optical stability	Controller must maintain optical stability between ± 5% during exposure	
7.	Control	System should be controllable/programmable directly by PC and by using interface (Keypad or touchscreen) on the system as well.	
8.	Display	System should have LCD to display important parameters such as configuration and LED information.	
9.	Connectivity	USB connection for PC control	
10.	Operation modes	<p>1. Continuous mode : UV LED Head should remain on for as long as the enable signal is present.</p> <p>2. Time mode : The UV LED Head should remain turned on for set amount of time when an exposure is triggered. Time selection: 0.1 second to 999 seconds in 0.1-second increment.</p> <p>3. Configuration mode : This mode should allow for sequence programming of the UV exposure. It should have control of</p> <ol style="list-style-type: none"> 1. Number of steps 2. Dwell time 3. Level of intensity or power (Adjustable between 5% and 100%) 4. Delay between two steps 	

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11.	Computer software	System should be able to be controlled via PC and appropriate software with drivers should be provided. Software should have following abilities: 1. Connecting to the UV curing system 2. Should be able to choose between various operation modes and control parameters in those modes	
12.	Safety Glasses	Appropriate safety glasses must be provide	
13.	Power Input	Single phase, 240/50 Hz VAC Indian connector.	
14.	Operating environment	Temperature: 20 ⁰ C to 30 ⁰ C or range of temperature encompassing above mentioned range. Humidity: 20% RH to 85% RH (No Condensation)	
15.	Warranty	At least 1 year from the date of delivery	
16.	OEM Authorization	OEM authorization must be provided if not quoted by the OEM	