

Revision #	3		
Customer Need #	Importance	Description	Comments/Status
		<b>LED Controls</b>	
CN1	5	Control individual intensities of LEDs	PWM
CN2	3	8-bit control	
CN3	3	Serial commands for each LED	
CN4	3	MATLAB software interface	Does not want GUI
CN5	1	No power constraints	
		<b>LED Cluster</b>	
CN6	5	At least 2 clusters of 7 LEDs	Possibility of expansion
CN7	5	Individually addressable LEDs	Adjustable brightness
CN8	5	Cover entire visible light (possibly UV and IR as well)	Visible spectrum more important
CN9	2	Cluster housing	Minimize potential damage to electronics
CN10	5	LED cluster must illuminate sample area	
CN11	4	Individually replaceable LEDs	Avoid need of having to replace entire cluster
CN12	3	Quick, reliable disconnect	
		<b>Hemisphere</b>	
CN13	5	Dome geometry needs to be a hemisphere	
CN14	5	Accurate alignment of cluster mounting locations	
CN15	4	Mounting locations identified and labeled	
CN16	2	Minimal weight	Ensure system portability

Importance: Scale of 1-5 (1 = preference only, 5 = must have)