Heat sinks & Fans

for LumiBright™ Products

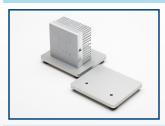
Innovations in Optics offers several options in thermal management via heat sink modules with or without fans to assure the best performance of our products.





3100A-200 thru 3100A-300 - Aluminum Dense Fin Heat sink:

- For high power operation
- · Accepts 60 mm 5V, 12V, and 24V fans
- Round pin fins for optimal cooling performance
- Used with LumiBright Light Engines, Tapers, Projectors, Fiber-coupled devices
- See Figure 1 thru 7 for mounting pattern and other details





Stand:

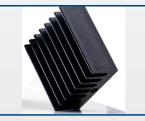
- · Aluminum stand with rubber feet
- Dimensions in mm: 76.5 x 90 x 6.35
- See Figure 6





Fans

- 5V, 12V, 24V
- · See Table 2 for additional details



3100A-100 - Black Anodized Aluminum Heat sink:

- Finned for optimal cooling performance
- · Highly conductive anodized aluminum
- Used with LumiBright Light Engines
- See Figure 7 for mounting patterns and other details

Refer to Table 1 for ordering information *** Refer to Figure 8 for additional accessories



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LUMIBRIGHT PRODUCTS

HEAT SINKS AND FANS

PART NUMBER

Table 1

Heat sink/Fan number	Fan (Table 2)	Stand (Figure 6)		
3100A-201 (Figure 1)	No Fan	YorN		
3100A-200 (Figure 2)	5 Volt	Y or N		
3100A-202 (Figure 3)	12 Volt	Y or N		
3100A-203 (Figure 4)	24 Volt	Y or N		
3100A-300 (Figure 5)	12 Volt	Y or N		
3100A-100 (Figure 7)	N/A	N/A		

EXAMPLE: 3100A-200-Y

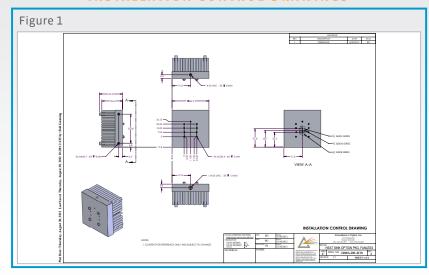
FAN SPECIFICATIONS

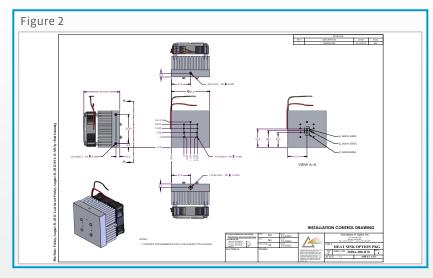
Table 2

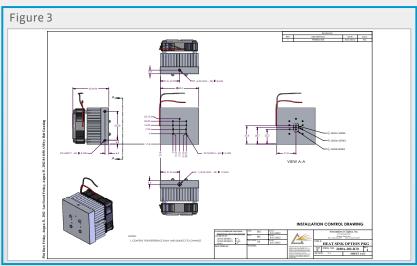
	3100A-200 SERIES				3100A-300 SERIES	
Fan Number	5 Volt	12 Volt	24 Volt		12 Volt	
Voltage (V)	5	12	24		12	
Size (mm)	60x60x15	60x60x15	60x60x15		60x60x38	
Nominal CFM	15.03	21	18.3		84	
Amps (A)	0.29	0.19	.10		2.8	
Speed (min ⁻¹)	4000	4300	4600		16000	
PWM					Υ	
RPM Sensor	Υ				Υ	
°C/W (for ref)	0.4	0.34	0.3		0.12	

HEAT SINKS AND FANS

INSTALLATION CONTROL DRAWINGS

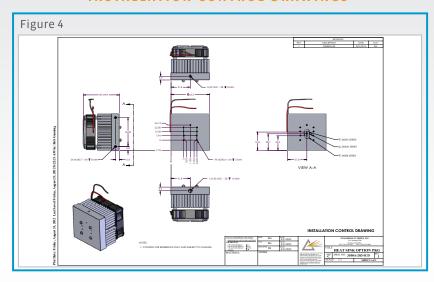


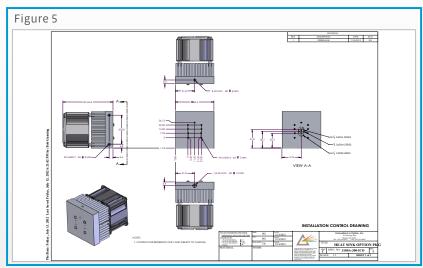


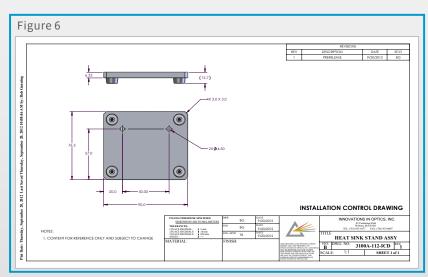


HEAT SINKS AND FANS

INSTALLATION CONTROL DRAWINGS







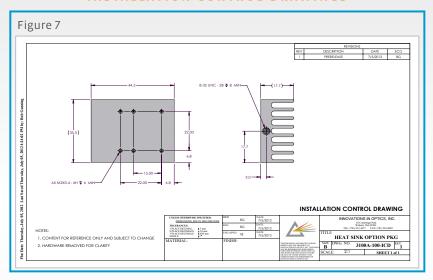


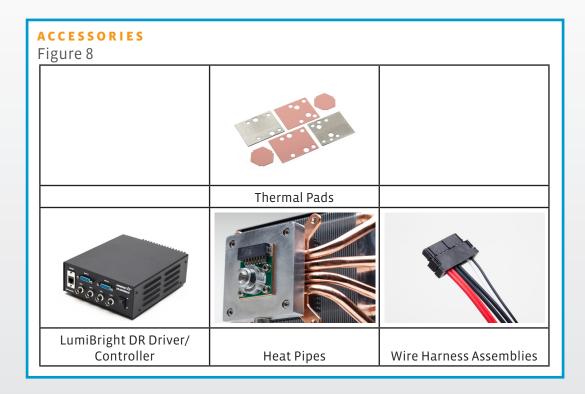


PRELIMINARY

HEAT SINKS AND FANS

INSTALLATION CONTROL DRAWINGS





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