

## Monochromatic Architectural Spot and Flood Light

## PRODUCT SPECIFICATION SHEET

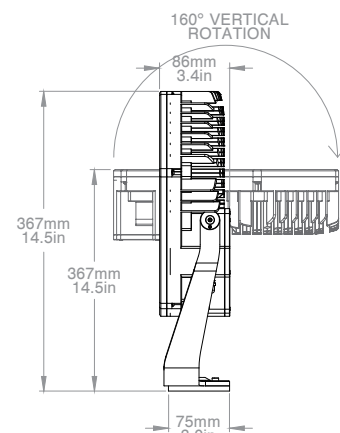
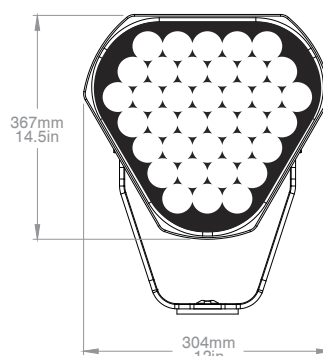
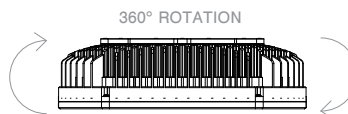


DATE:

TYPE:

COMPANY:

PROJECT:



\*SM bracket mounting option shown.  
See page 2 for more mounting options.

## FEATURES:

- Over 9000 Lumen output (ELV48)
- Ultra narrow 4° beam angle
- Compact size, only 86mm (3.34in) in depth
- Weight of only 5kg (11lbs)
- Advanced thermal design with cutting-edge manufacturing process and materials
- Highly adjustable with 360° horizontal rotation and 160° vertical rotation
- INFINITY® Technology compatible (INF)
- Built-in high temperature power supply (AC)
- Plug-and-play with STR9® luminaires
- Meets ANSI C136.31 3G Vibration standard for bridge and overpass applications, taking into consideration wind and traffic vibrations

## OPTIONS:

- Wide range of LED colors available
- Beam angles ranging from 4° to 75° with elliptical distribution options
- Optical accessories for glare control
- Black matte and clear matte anodized colors
- ELV (48VDC), INF (380VDC) and AC (85-264VAC) input options

## SPECIFICATION LOGIC: FL100™ MONOCHROMATIC

FAMILY	BODY COLOR	LED COLOR	OPTICS(FWHM)*	VOLTAGE	MOUNTING OPTION
FL100	BM - Black Matte Anodized CM - Clear Matte Anodized	2200K <sup>1</sup>	4 - 4.5°x4.5°	ELV - 48VDC INF - 380VDC AC - 85-264VAC <sup>2</sup>	SM120 - Surface Mount 120mm <sup>1</sup> SM200 - Surface Mount 200mm SM300 - Surface Mount 300mm <sup>1</sup> SM400 - Surface Mount 400mm <sup>1</sup> SM500 - Surface Mount 500mm <sup>1</sup> SMXXX - Surface Mount Custom <sup>1</sup> (specify length) SF - Slip Fit 2in <sup>1</sup> PM - Pole Mount <sup>1</sup>
		2700K	7 - 7°x7°		
		3000K	10 - 10°x10°		
		3500K	20 - 20°x20°		
		4000K	40 - 40°x40°		
		5000K	55 - 55°x55°		
		6500K	75 - 75°x75°		
		GR - Green	10x40 - 10°x40° H		
		RD - Red	40x10 - 40°x10° V		
		BL - Blue	10x60 - 10°x60° H		
		AM - Amber	60x10 - 60°x10° V		
		RO - Red Orange <sup>1</sup>	30x55 - 30°x55° H		
		BG - Bluish Green <sup>1</sup>	55x30 - 55°x30° V		
		RB - Royal Blue <sup>1</sup>			

## PRODUCT CONFIGURATION

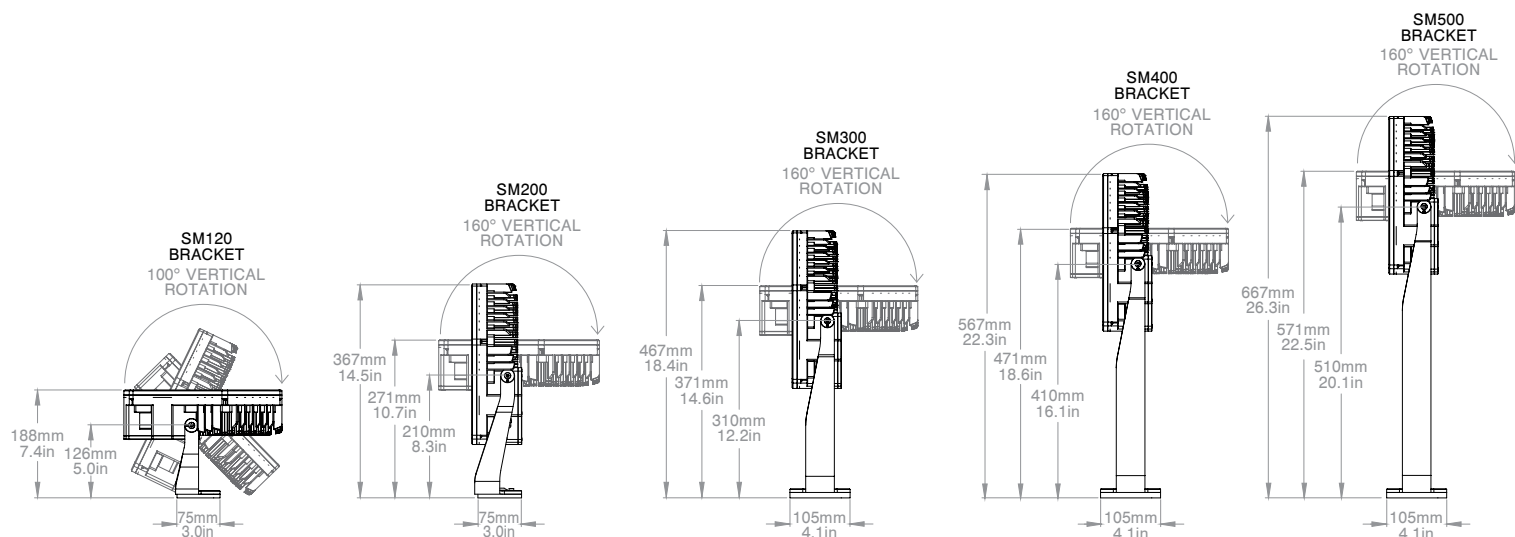
1. Non-standard option and may require longer lead time than usual.  
2. 277VAC version in development

\* Nominal values are used. Actual measurements may differ slightly.




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## MOUNTING BRACKET OPTIONS



## PRODUCT SPECIFICATIONS: FL100™ MONOCHROMATIC

ELECTRICAL		Rated Input Voltage		48VDC		380VDC		85~264VAC						
		Power Consumption (max.)		100W		100W		100W						
OPTICAL	Light Source		36 x High Power LEDs											
	CRI		80 <sup>2</sup>											
	Output (typical)	Color	Wave Length (nm)	Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)	Luminous Flux (lm)	Peak Intensity (cd)					
		4000K	N/A	7,400	537,220	6,660	483,500	5,920	429,780					
		Red	620	N/A	N/A	N/A	N/A	N/A	294,000					
		Green	525	N/A	N/A	N/A	N/A	N/A	146,000					
		Blue	470	N/A	N/A	N/A	N/A	N/A	129,000					
		Amber	N/A	N/A	N/A	N/A	N/A	N/A	336,000					
		Red Orange <sup>1</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
		Bluish Green <sup>1</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
	Royal Blue <sup>1</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	Output (typical)	4000K	N/A	9,199	408,220	8,280	367,398	7,361	326,576					
		Red	620	N/A	N/A	N/A	N/A	4,000	N/A					
		Green	525	N/A	N/A	N/A	N/A	2,000	N/A					
		Blue	470	N/A	N/A	N/A	N/A	1,700	N/A					
		Amber	N/A	N/A	N/A	N/A	N/A	4,600	N/A					
		Red Orange <sup>1</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
		Bluish Green <sup>1</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
Royal Blue <sup>1</sup>		N/A	N/A	N/A	N/A	N/A	N/A	N/A						
Optics		High optical efficiency PMMA TIR Optics, Micro Lense Film, Tempered Glass Cover Lens												
Beam Angle (FWHM)		4 (4.5°X4.5°), 7 (7°x7°), 10 (10°x10°), 20 (20°x20°), 40 (40°x40°), 55 (55°x55°), 75 (75°x75°), 10x40 (10°x40°), 40x10 (40°x10°), 10x60 (10°x60°), 60x10 (60°x10°), 30x55 (30°x55°), 55x30 (55°x30°)												
Projected Lumen Maintenance		L70 > 60,000hrs @ Ta =50°C/122°F												
CONTROL		Control Interface		DMX control through GVA's Power-Data Equipment										
PHYSICAL	Size (HxWxD)		mm	304 x 367 x 86										
			inches	11.96 x 14.45 x 3.38										
	Weight		kg	5										
			lbs	11										
	Housing		Anodized 6061 Aluminum Alloy											
	Fixture Connections		IP68 Connectors											
CERTIFICATION & SAFETY	Rated Operation Temperature		-40°C to +50°C, -22°F to 122°F											
	Environment		Dry, Damp or Wet Locations, 0-100% humidity											
	Listings		RoHS											
	IEC Classifications		Class 1 LED Luminaire											
			 <b>RoHS Compliant</b>			 <b>ANSI C136.31-2010</b>						Constructed to meet requirements outlined in UL1598 & IEC60598		
									Meets ANSI C136.31 3G Vibration standard for bridge and overpass applications					

1. Non standard option and might require longer leadtime than usual.  
 2. Minimum 90 CRI also available.  
 3. Measured with 7° fixture configuration. Luminous flux may be lower with other configurations.

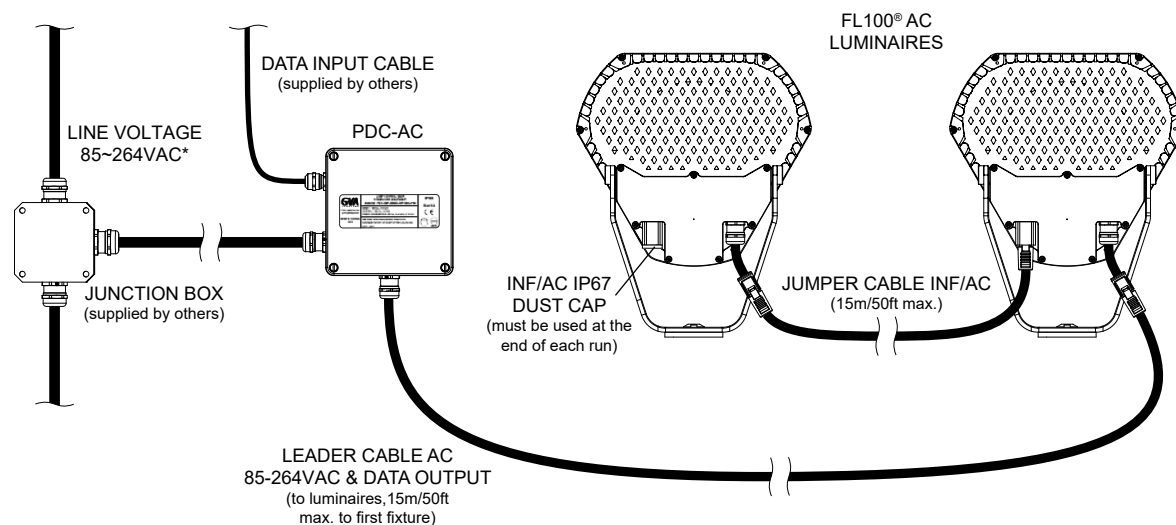
These figures are subject to change due to further development and innovations of LED light sources.  
 This product is in its early release stage. The data above is in preliminary stage until full release.

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### TYPICAL SYSTEM DIAGRAM: AC (WITH CONTROL)

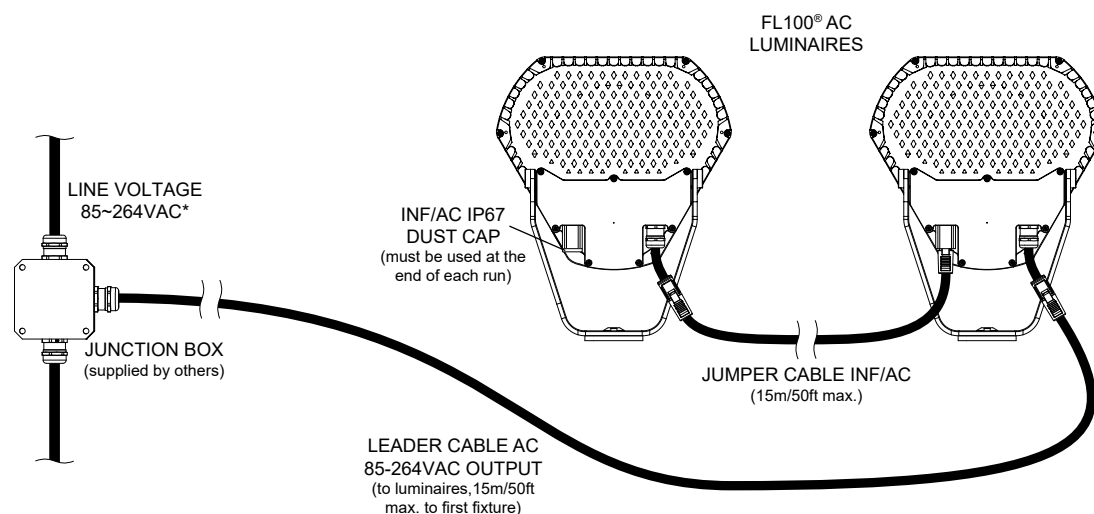
**NOTE:** Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.



\* 277VAC version in development, consult factory for details

### TYPICAL SYSTEM DIAGRAM: AC (WITHOUT CONTROL)

**NOTE:** Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.



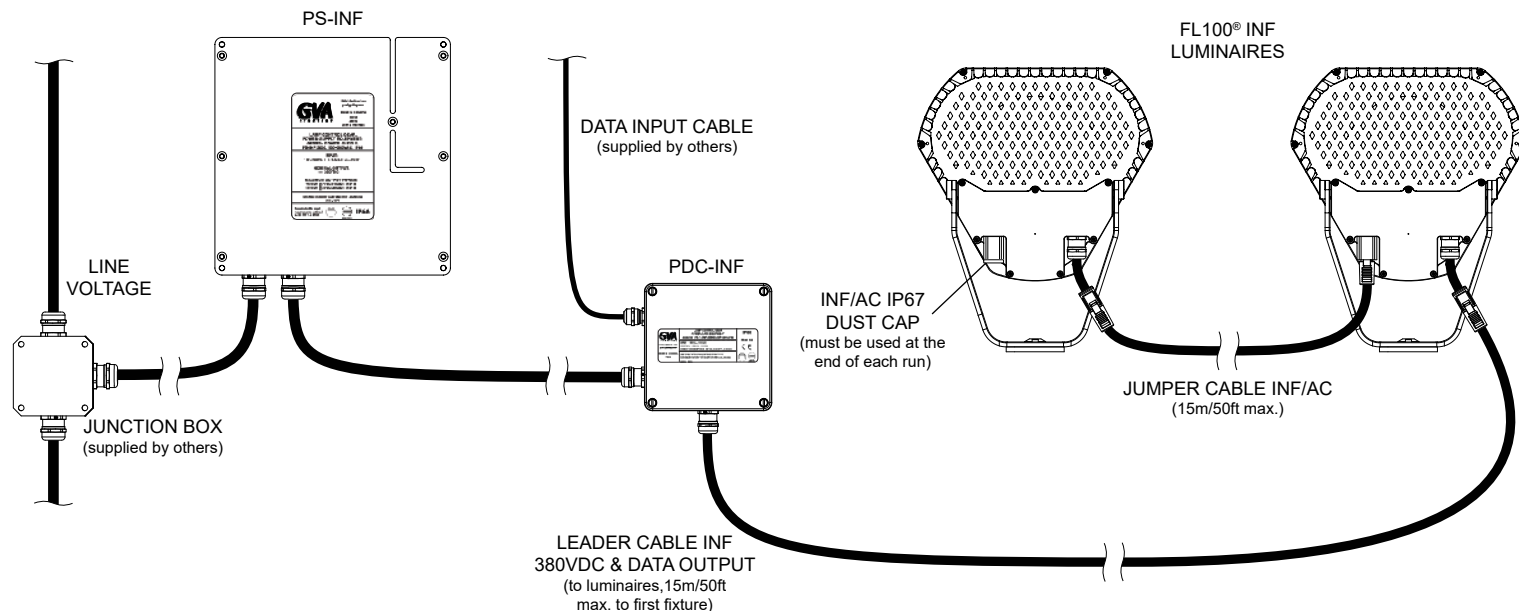
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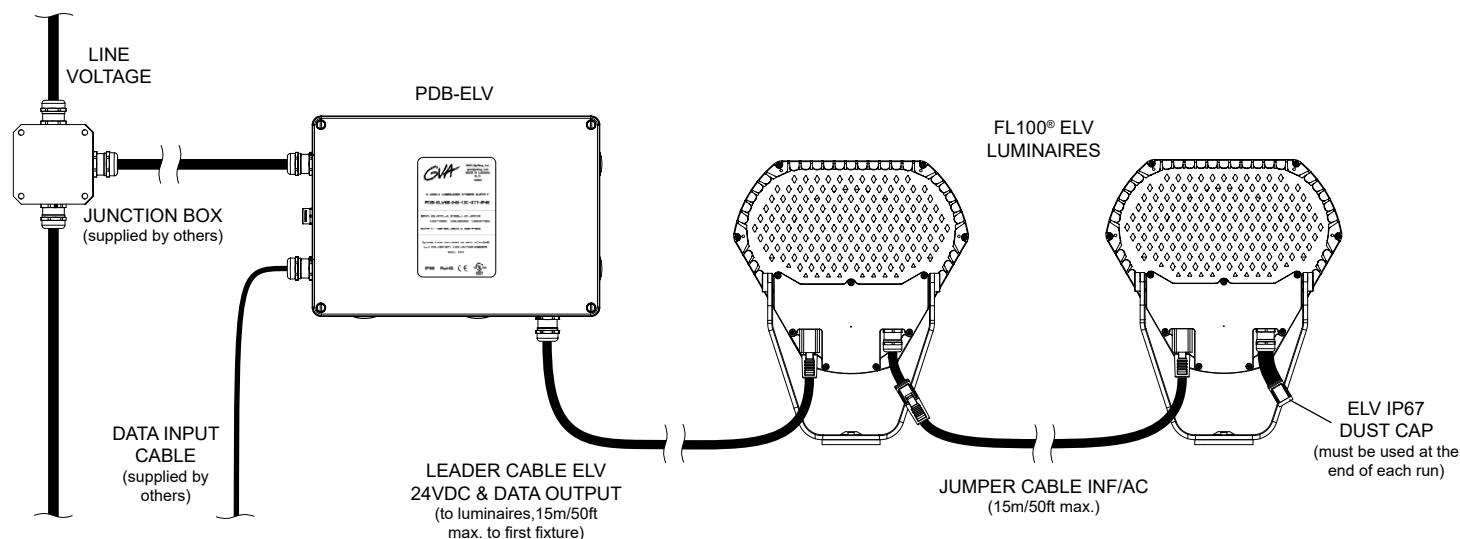
### TYPICAL SYSTEM DIAGRAM: INFINITY® (WITH CONTROL)

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### TYPICAL SYSTEM DIAGRAM: ELV (WITH CONTROL)

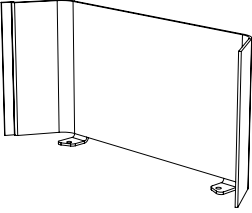
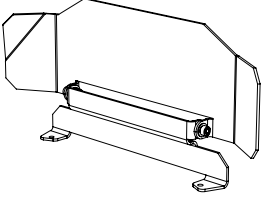
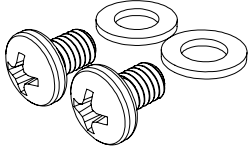
**NOTE:** Length of leader cables and jumper cables directly affects the maximum number of fixtures in a single run.



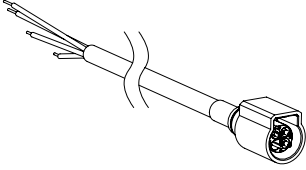
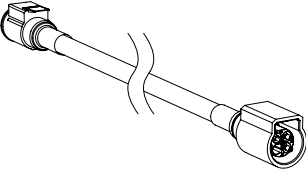
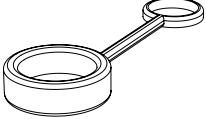
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## ORDERING LOGIC: ACCESSORIES

VISORS		
	COLOR	PART NUMBER
	Clear Matte Anodized	121565
	Black Matte Anodized	121566
	Custom Anodized	121567
* Individual items, for a full set, order quantity of 3		
BARN DOORS		
	COLOR	PART NUMBER
	Clear Matte Anodized	121568
	Black Matte Anodized	121569
	Custom Anodized	121570
* Individual items, for a full set, order quantity of 3		
SCREW SETS		
	COLOR	PART NUMBER
		121571
*Order 1 per every single visor or barn door ordered		

## ORDERING LOGIC: COMMON COMPONENTS

LEADER CABLES		LEADER CABLE ELV
	NOMINAL LENGTH	PART NUMBER
	3m (10ft)	140723
	9m (30ft)	140733
	15m (50ft)	140724
	CUSTOM	140732
	LEADER CABLE INF	
	3m (10ft)	140725
	9m (30ft)	140710
	15m (50ft)	140726
	CUSTOM	140727
	LEADER CABLE AC	
	3m (10ft)	140858
	9m (30ft)	140859
	15m (50ft)	140860
	CUSTOM	140861
JUMPER CABLES		JUMPER CABLE ELV
	0.9m (3ft)	140729
	1.8m (6ft)	140730
	3.6m (12ft)	140731
	CUSTOM	140728
	JUMPER CABLE INF/AC	
	0.9m (3ft)	140709
	1.8m (6ft)	140734
	3.6m (12ft)	140735
	CUSTOM	140708
CONNECTOR DUST CAP, IP67 (must be used at the end of each run)		
	INPUT TYPE	PART NUMBER
	INF/AC	230855
	ELV	231182