



P-1

Battery-driven LED Wash Light



Description

The P-1 is a versatile RGBW wash with full wireless operation, designed to match the requirements of corporate productions, broadcast applications, wedding receptions, staging, and events. To further enhance its versatility, available unique magnetic holographic filters allow the P-1 to modify its beam angle depending on the application, while the onboard Lithium-Ion battery pack provides for extended run times without recharge, eliminating the need of cables or mains power. The P-1 is a smart, reliable, and powerful luminaire built in a compact, lightweight, and elegant assembly: an LED wash that sets a new standard for the most demanding users.

Features and benefits

- ✓ Battery-driven IP65 RGBW LED light source
- ✓ Up to 24 hours battery operation
- ✓ 2000K - 10000K CTC control
- ✓ Practically maintenance-free and silent performance
- ✓ 10° (with 10° lens) native beam angle, adjustable via magnetic holographic filters
- ✓ DMX, RDM, and 100% wireless (power and control)
- ✓ Ultra-high-speed strobe effect
- ✓ Flicker-free / Programmable scenes

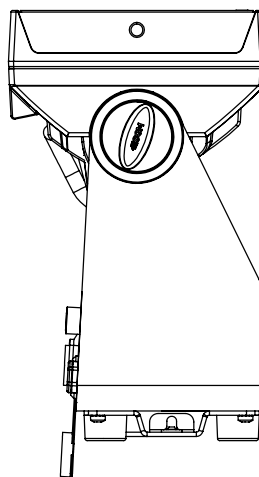
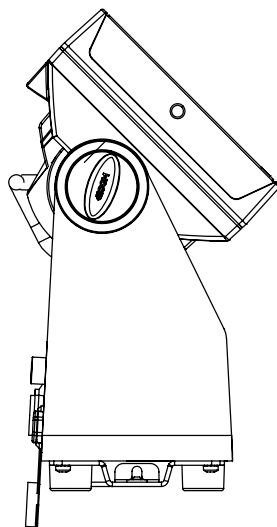
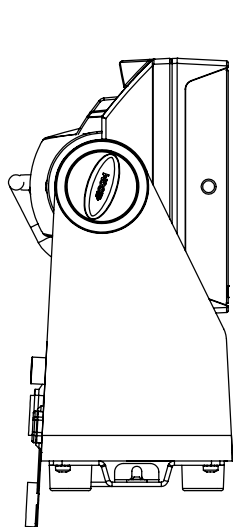
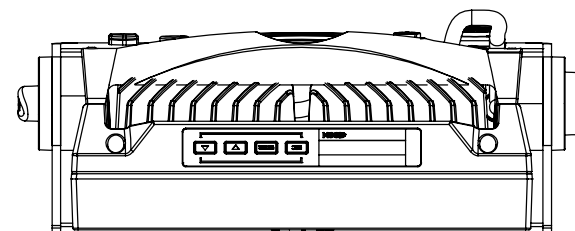
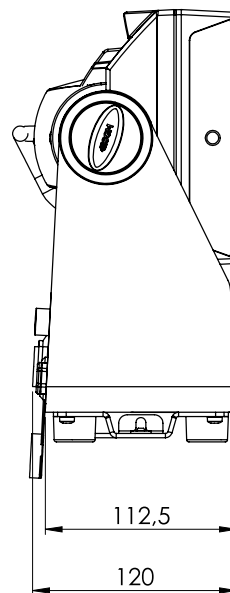
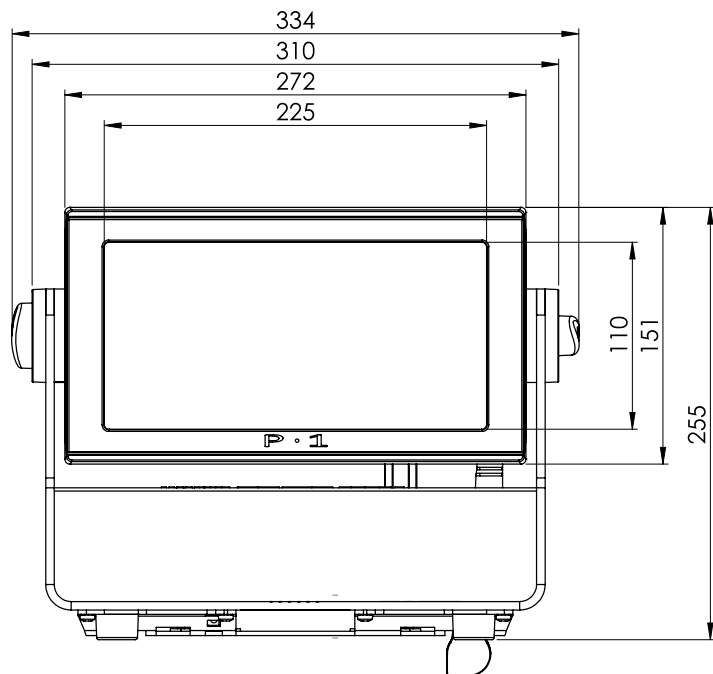
Certifications & classifications

IP65

RoHS

CE

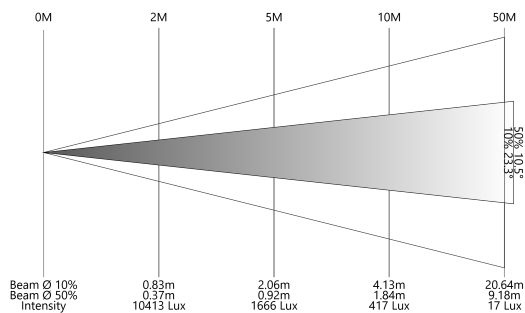




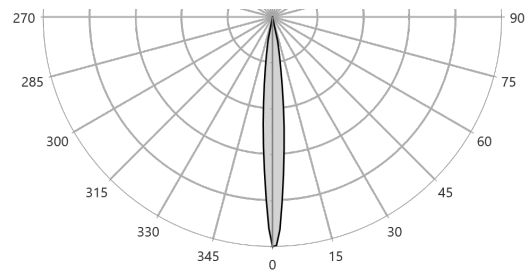
Manufacturer	SGM
Luminaire	P-1 10deg All on raw peak
Measurement Date	10-06-2022
Power Consumption	90 W
Light Output	2 598 lm
Field Angle	23.3 deg
Beam Angle	10.5 deg



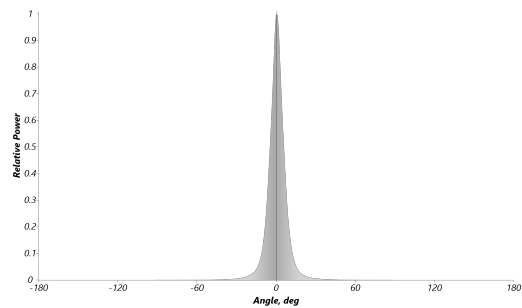
Lux Diagram



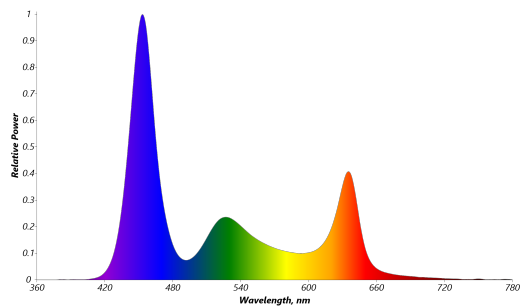
Polar Distribution



Beam Profile



Spectral Distribution



Specification

Optical Data	LED expected lifetime	50,000 hours
	Lightsources	8 x high-power 12.5W RGBW LEDs
	Native lens options	10°
	Optional filters	Elliptical horizontal, I/P, external (10° x 60° angle)
		Elliptical vertical, I/P, external (60° x 10° angle)
Wide, P-1/P-6/P-10, external (47° angle)		
Medium, P-1/P-6/P-10, external (18° angle)		
Photometric	Average CRI (CTC)	80
	Color temperature range	2000K - 10000K
	Efficacy	33 lm/W
	Light output all LEDs on	3073 lm
	Light output blue	316 lm
	Light output green	1018 lm
	Light output red	544 lm
	Lumen per kilogram	539 lm / Kg
	Lux @ 10m	514 lux
	Lux @ 3m	5709 lux
	Lux @ 5m	2055 lux
	Native beam angle(s)	10° (with 10° lens)
		19° (with Med filter frame)
45° (with Wide filter frame)		
Native field angle(s)	22°	
Physical	Color options	Black - RAL 9004
		Custom color - Any RAL
		White - RAL 9010
	Effective Projected Area	0.85 Square ft
	IP class	IP65
	Lens material	Tempered glass front
	Material	Aluminium
		PC/ASA
		Plastic
		Rubber
		Steel
	Net dimensions	334 x 254.6 x 119 mm
	Net dimensions inches	13.2 x 10 x 4.7 inches
Net weight	5.7 kg (12.6 lbs)	
Net weight excluding batteries	5 kg	
Net weight excluding batteries lbs	11	

Features	Color calibration	SGM proprietary, full color calibration
	Dehumidifier	Base / Head
	Dimming	2 Smooth fade in, DMX-controllable curves: gamma corrected, and linear
	Emulation mode / effect	Built-in color presets, display selectable
	Filters	Magnetic easy-fit spread angle filter frames
	LED panel	2 individually controllable segments
	Strobe	Ultra-high-speed strobe effects Pixel strobe feature (up to 2 segments)
	Tilt	0 - 190°
Electrical	Electrical protection	Overload protection with automatic recover
	Input voltage, absolute max. rating	90 - 264 VAC; 50 / 60 Hz
	Input voltage, nominal	100 - 240 VAC; 50 / 60 Hz
	Max inrush current 230VAC	60 A
	Max power consumption	90 W
	Power Supply Unit	High-efficiency electronic switch-mode
	Standby power consumption	3 W
Programming and Control	16-bit control	Dimmer, Red, Green, Blue, White
	Cabled DMX	5 pin XLR input/output
	DMX channels	3, 4, 6, 9, 11 or 16
	DMX modes	6
	Protocol	CRMX, W-DMX™ G2, W-DMX™ G3, W-DMX™ G4, W-DMX™ G4S USITT DMX512A Wireless RDM RDM ANSI E1.20
	Setting and addressing	OLED graphical display / 4 buttons RDM ANSI E1.20 Standalone mode
	Standalone mode	Quick Color 3 programs with up to 24 scenes
	Wireless DMX	Lumen Radio with RDM
Connections	DMX data in/out	IP65 XLR 5-pin connector, Female IP65 XLR 5-pin connector, Male
	Power	Power input connector
Installation	Mounting point	2 quarter-turn locking points for one Omega bracket

	Orientation	Any
	Rigging possibilities	Hanging (Omega Bracket included) or ceiling/wall mount (optional)
	Safety features	Bottom mount for safety wire Minimum distance to combustible materials: 0.3 meter (11 in).
Thermal	Cooling	Passive
	Humidity (max.)	98 %
	Temperature range, battery operating	-20°C to 50°C
	Temperature range, battery Start-up	-20°C to 50°C
	Temperature range, charging	10°C to 45°C
	Temperature range, operating	0°C to 45°C
	Temperature range, start-up	0°C to 45°C
	Temperature range, storage	-20°C to 25°C
	Thermal protection	Automatic overtemperature protection
	Total heat dissipation, max power	307.1 BTU per hour
	Total heat dissipation, standby	10.2 BTU per hour
Included items	Included items	2 m IP66 power cable pigtail 1 Omega bracket with quarter-turn fasteners Safety instructions and installation quick guide
Battery	Battery capacity	Configurable up to 24 hours
	Battery capacity (typical use)	10 - 12
	Battery charge time up to 100%	6.5 hours
	Battery charge time up to 75%	3.5 hours
	Battery option	YES
	Battery status	Battery level indicator
	Battery type	Lithium-Ion battery
	Durability	> 1000 cycles
Conforms To	CE - 2014/30/EU: EMC Directive	EN 55103-1 EN 55103-2 EN 55015 EN 61547 EN 61000-3-2 EN 61000-3-3
	CE - 2014/35/EU: Low Voltage Directive	EN 60598-1 EN 60598-2-17 EN 62471 EN 60529
	RoHS2 Directive	2011/65/EU

NOTES:

Due to continuous improvements and innovations, specifications may change without notice.

LEDs' expected lifetime provided by manufacturer and obtained under manufacturer's test conditions.

Zoom range defined as a minimum beam angle to a maximum field angle.

Photometric measurements obtained with Goniometer Scan / SGM Illumination Lab 1.6.0.0.

Lumen output in pixel products is calculated.

Ordering information

Qty	Product name	Item number
<input type="checkbox"/>	P-1, Std, BL, w/batteries	80031501
<input type="checkbox"/>	P-1, Std, WH, w/batteries	80031511
<input type="checkbox"/>	P-1, Std, CU, (incl. Batt)	80031521
<input type="checkbox"/>		
Accessories		Item number
<input type="checkbox"/>	Omega Bracket with 1/4-turn fasteners	83060602
<input type="checkbox"/>	P-1 Ceiling / Wall Mount	83060614
<input type="checkbox"/>	4-way Barndoors for P-1	83061138
<input type="checkbox"/>	8-way Barndoors for P-1	83061139
<input type="checkbox"/>	Filter frame for P-1 - medium angle	83061140
<input type="checkbox"/>	Filter frame for P-1 - wide angle	83061141
<input type="checkbox"/>	Filter frame for P-1 - elliptical horizontal wide angle	83061142
<input type="checkbox"/>	Filter frame for P-1 - elliptical vertical wide angle	83061147
<input type="checkbox"/>	Flight Case for 4 pcs of P-1	82051009
<input type="checkbox"/>	Flight Case for 4 pcs of P-1 incl. charger	82051010
<input type="checkbox"/>	Battery, Nominal: 21.6 V - Nominal: 3350 mAh	83061709
<input type="checkbox"/>	Battery, Nominal: 21.6V - Nominal: 3350 mAh (2 pcs)	83061710
<input type="checkbox"/>	Flight Case charger cable assembly kit (4 pcs)	83062044
<input type="checkbox"/>	Power cable with IP connector	07860275
<input type="checkbox"/>	SGM USB uploader cable	83062011
<input type="checkbox"/>	Vacuum Test Kit	83061136
<input type="checkbox"/>	A-4	80070217
<input type="checkbox"/>	RDM Addressing Tool	
<input type="checkbox"/>	Spigot adapter for omega bracket	83060639
<input type="checkbox"/>		

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