	Catalog Number SD1 RGB W+M DMX 801.10 CLA TP SS	Туре
Submitted By 16500, INC	Notes	





ACTUAL SIZE



SHOCKWAVE DELTA-2 | COLOR SERIES

The SACO Shockwave DELTA-2 is a slim and stylish, wall-grazing or wall-washing fixture using high-performance LEDs to deliver intense and precise lighting, in virtually any color. The DELTA-2 is highly adjustable and is great end-to-end, stacked, or positioned around complex structures.

DELTA-2 comes in narrow, medium, wide, and a variety of oval optic options making this a versatile lighting solution for most projects.

HIGH RESOLUTION	SACO's proprietary V-STREAM high-speed, high-resolution video pixel control. DMX compatible.
BRIGHT FIXTURE	SACO's intelligent control maximizes output for the brightest colors across the spectrum.
COMPACT SIZE	Ultra-compact design and remote V-BRAIN power allows for low-profile installation and discreet integration.
MODULAR	Build the perfect performer by combining and stacking fixtures to suit.
HEAT MANAGEMENT	Efficient heat dissipation. No dirt traps.



sixteen5hundred		Catalog Number SD1 RGB W+M DMX 801.10 CLA TP SS	Туре
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FEATURES GUIDE





PHYSICAL		OPTICAL	
CONSTRUCTION	Machined high grade 6061-T6 aluminum Machined scratch resistant clear polycarbonate face (0.2", 4.5mm thickness) Sturdy stainless steel hardware	COLOR SERIES	ABC: patented Adaptive Brightness Control, for more vivid single colors Red, blue, green discrete LEDs for individual color control Custom colors available
	High-pressure silicone rubber seal (temp range -60°F to 400°F, -50°C to 200°C)	LUMEN OUTPUT	From 700 to over 1500 delivered lumens (RGB full-on), depending on optics
MOUNTING	Standard 304 stainless steel aimable mounting bracket (0.1", 2.6mm thickness)	PERFORMANCE	From 30 to over 75lm/W, depending on optics
	180° tilt, 90° pan around central pivot Micro-adjustable for perfect aiming Locking bracket accommodates 1/4″ (6mm) mechanical screws	REFRACTORS	Injection molded PMMA total internal reflection collimators (TIR) Variety of axial and transverse beam angles, from circular to oval light spreads Factory installed for enhanced optical precision
SURFACE FINISH	Standard brushed anodized finish Custom painted colors also available	SHOCKWAVE ACC	ESSORIES
WEIGHT	3.0lb (1.4kg), with standard cable + mounting bracket	EXTENSION CABLES	10' (3m) EXT10 and 20' (6m) EXT20 fixture extension cables may be used to lengthen standard cable to a maximum of 60' (18m)
THERMAL			IP67 quick connectors for easy connections to V-BRAIN
HEAT CONTROL	Use of entire fixture's surface area for ideal heat dissipation No fins, no dirt buildup	MOUNTING	Multiple mounting and joining bracket options available See accessories guide for options
SURFACE FINISH	Anodized for better emissivity	OPTICAL	Multiple optical accessories are available
OPERATING TEMP	-40°F to 185°F (-40°C to 85°C)	ACCESSORIES	See accessories guide for options
ELECTRICAL		CONTROLLERS	Multiple Shockwave video and DMX512 control options are available See accessories guide for options
INPUT VOLTAGE	24VDC (CLASS 2)	MORE	Please refer to accessories guide for more information
POWER	23W Maximum	ADDITIONNAL IN	FORMATION
V-BRAIN LIMIT CABLE	4 (Connect maximum 1 per V-Brain 100 output. Please refer to specification guide) Standard 4' (1.2m) cable with quick connector (Q804), or optional 10' (3m) pigtail cable for fixed color applications (P210)	CERTIFICATION	ETL listed as per UL 2108, CSA C22.2 № 250.0 CE
CONTROL INPUT	SACO Video (Up to 16 bit resolution)		IP 66, suitable for wet locations Roadway and Area Lighting Equipment Luminaire Vibration as per ANSI C136.31
	DMX512 (8 bit resolution)	WARRANTY	5 years
	DMX512 with RDM (Remote Device Management) (8 bit) On/Off without control signal for fixed colors	ORIGIN	Designed and made in North America
		S SWI TCH	VIDEO DMX



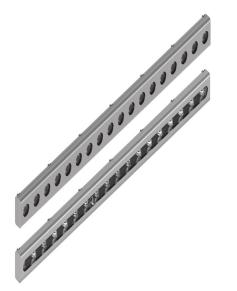




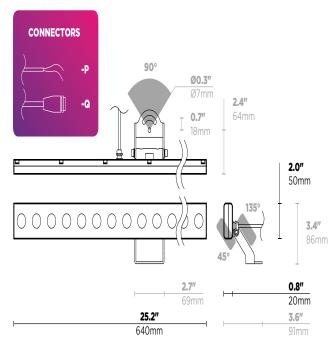
sixteen <mark>5</mark> hundred	RGB/W Saturated Color	Catalog Number SD1 RGB W+M DMX 801.10 CLA TP SS	Туре
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SPECIFICATIONS GUIDE



open bezel for -xn optics options



-TP MOUNTING HARDWARE VERSION, SEE ACCESSORIES GUIDE FOR MORE. (ADJUSTABILITY AND MOUNTING DIMENSIONS IN GREY)



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DUC	T ORDEI	RING CODE SD2
02	MODEL	#
	COLOR	LIGHT SOURCE
	RGB	RGB, ABC-enabled (Max 23W, 1500lm approx. RGB, color changing) Custom, please specify (Max 23W, fixed color recipe)
	LIGHT	SPREAD (AXIAL + TRANSVERSE) ^{1,2}
	N+N M+M W+W M+N W+M X+N	Narrow (Circular beam, nominal 15° TIR lens) Medium (Circular beam, nominal 30° TIR lens) Wide (Circular beam, nominal 50° TIR lens) Medium + Narrow (Oval beam, nominal 35°x15° TIR lens) Medium + Wide (Oval beam, nominal 50°x30° TIR lens) X + Narrow (Oval beam, nominal 110°x15° TIR lens, see image on left)
		¹ All beam angle values (FWHM) may vary depending on specified light color. Please refer to photometric guide for corresponding beam angles.
		² Factory installed. Please refer to accessories guide for field-adjustable optical accessories.
	CONTR	OL SPECIFICATION ³
	SVD DMX RDM OFF	SACO Video (Up to 65,536 shades per color, dimming down to 0%) DMX512 ⁴ (Up to 256 shades per color, dimming down to 0%) DMX512 ⁴ + RDM (Up to 256 shades per color, dimming down to 0%) On/Off (No dimming)
		³ Remote power supply and control gear to be ordered separately. Please refer to specification guide.
		⁴ DMX addresses must be identified on order.
	CABLE	HARNESS CONNECTOR
	Q P	Quick connector ⁵ (8-pin, overmolded IP67) None, pigtail ⁶ (2 conductors, stripped wire ends, no connector)
		⁵ Default option, 8-conductor maximum cable length is 4' (1.2m), see below. Make sure connect choice corresponds with that of remote power supply.
		⁶ 2-conductor cable compatible only, see below.
	CABLE	HARNESS LENGTH
	801.2 8 203.0 2	8-conductor, 4' (1.2m) ⁷ 8-conductor, custom length (please specify, in meters) ⁸ 2-conductor, 10' (3m) ⁹ 2-conductor, custom length (please specify, in meters) ¹⁰
		⁷ Default length option, comes fitted with 8-pin quick connector only (-Q, see above). ⁸ Minimum 8-conductor cable length is 6" (0.15m) and maximum 10' (3m). Longer runs can be achieved using extensions. Refer to V-Brain wiring guide for details.
		⁹ 2-conductor cables have pigtailed ends as standard (-P only, see above).
		¹⁰ Maximum 2-conductor cable length option is 80' (24m) length.
	SURFA	CE FINISH
	CLA Bka	Clear Anodized Black Anodized Custom, please specify
		TING HARDWARE "
	TP NO	Tilt + Pan mounting bracket (Tilt 180°, Pan 90°) None Custom, please specify
		¹¹ Tilt and pan aimable mounting bracket factory installed as standard. Please refer to accessories guide for further mounting options.
	моныя	ING FINISH 12
	SS	Stainless Steel Custom, please specify
		12 Product finish is expected staipless steel. Custom finish to

¹² Bracket finish is exposed stainless steel, Custom finish to be applied to stainless steel. Consult your sales agent for compatible finishes, price and availability.



V2.2-2018-06



PHOTOMETRICS GUIDE

A NOTE ON PERFORMANCE

MASTER THE ABC Tuning a regular 3-channel RGB fixture from full-on to just displaying one or two channels basically means cutting off power to the unwanted channels. Then came Adaptive Brightness Control (ABC), SACO's patented protocol for driving LEDs.

> An ABC-enabled RGB fixture makes sure each channel is getting as much light out as it can at all times, reallocating the power from unused channels to the required ones. In other words, Adaptive Brightness Control is continuously monitoring the fixture's power so that it gets the most brightness out of it, in any shade of color.

COLORED LIGHT All of the photometrics below are based on an ABC-enhanced full-on RGB light source (-RGB). Beam angle (FWHM) may vary depending on specified light color, as well as on fixture finish.

> Photometric performance is measured in compliance with IESNA LM-79-08. Consult SACO website for the latest IES files.

LIGHT SPREAD Optics code sequence describe the type AXIAL of light spread achieved both axially and transverse, in that order.





THE ABCS OF ADAPTIVE BRIGHTNESS CONTROL

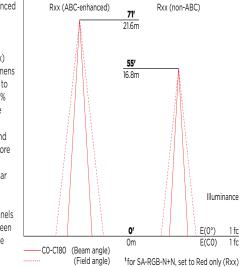
Note that while different color LEDs have different efficencies due to fundamental chemical differences, all will be enhanced by ABC to notable effect.

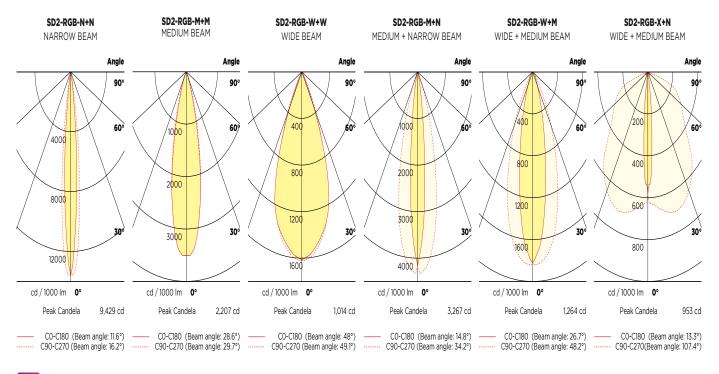
For instance, an RGB ABC fixture set to Red only (Rxx) will get over 120% more lumens out than a regular RGB set to Red only; xGx gets over 65% more, and xxB is 80% more intense. Similarly, setting it to purple using only Red and Blue (RxB), will get 60% more lumens out from an ABC luminaire than from a regular RGB one. Finally, the ABC effect can even be noticed when driving all three channels full on: a 5% increase has been measured at SACO in-house light lab.



Туре

Reach Comparison Diagram 1
Maximum luminaire distance to get 1 fc illuminance on a given surface







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SHOCKWAVE

VIDED LIGHTING