



ACTUAL SIZE



SHOCKWAVE DELTA-1 | COLOR SERIES

The SACO Shockwave DELTA-1 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-1 is highly adjustable and is great end-to-end, stacked, or positioned around complex structures.

DELTA-1 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.

SACO's intelligent control maximizes output for the brightest colors across the

spectrum

BRIGHT FIXTURE

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.





FEATURES GUIDE





PHYSICAL

CONSTRUCTION Machined high grade 6061-T6 aluminum

Machined scratch resistant clear polycarbonate face (0.2", 4.5mm thickness)

Sturdy stainless steel hardware

High-pressure silicone rubber seal (temp range -60°F to 400°F, -50°C to 200°C)

MOUNTING Standard 304 stainless steel aimable mounting bracket (0.1", 2.6mm thickness)

180° tilt, 90° pan around central pivot Micro-adjustable for perfect aiming

Locking bracket accommodates 1/4" (6mm) mechanical screws

SURFACE FINISH Standard brushed anodized finish

Custom painted colors also available

WEIGHT 1.5lb (0.7kg), with standard cable + mounting bracket

THERMAL

HEAT CONTROL Use of entire fixture's surface area for ideal heat dissipation

No fins, no dirt buildup

SURFACE FINISH Anodized for better emissivity OPERATING TEMP -40°F to 185°F (-40°C to 85°C)

ELECTRICAL

INPUT VOLTAGE 24VDC (CLASS 2)

POWER 12W Maximum

V-BRAIN LIMIT 8 (Connect maximum 2 per V-Brain 100 output. Please refer to specification guide)

CABLE Standard 4' (1.2m) cable with quick connector (Q804), or optional 10' (3m) pigtail

cable for fixed color applications (P210)

CONTROL INPUT SACO Video (Up to 16 bit resolution)

DMX512 (8 bit resolution)

DMX512 with RDM (Remote Device Management) (8 bit)

On/Off without control signal for fixed colors

OPTICAL

COLOR SERIES ABC: patented Adaptive Brightness Control, for more vivid single colors

Red, blue, green discrete LEDs for individual color control

Custom colors available

LUMEN OUTPUT From 300 to over 800 delivered lumens (RGB full-on), depending on optics

PERFORMANCE From 30 to over 75lm/W, depending on optics

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

SHOCKWAVE ACCESSORIES

EXTENSION 10' (3m) EXT10 and 20' (6m) EXT20 fixture extension cables may be used to

CABLES lengthen standard cable to a maximum of 60' (18m)

IP67 quick connectors for easy connections to V-BRAIN

MOUNTING Multiple mounting and joining bracket options available

See accessories guide for options

OPTICAL Multiple optical accessories are available

ACCESSORIES See accessories guide for options

CONTROLLERS Multiple Shockwave video and DMX512 control options are available

See accessories guide for options

MORE Please refer to accessories guide for more information

ADDITIONNAL INFORMATION

CERTIFICATION ETL listed as per UL 2108, CSA C22.2 Nº 250.0

CE

IP 66, suitable for wet locations

Roadway and Area Lighting Equipment Luminaire Vibration as per ANSI C136.31

WARRANTY 5 year

ORIGIN Designed and made in North America

















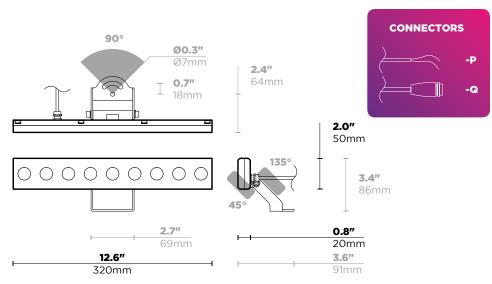




SPECIFICATIONS GUIDE



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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PRODUCT ORDERING CODE

MODEL	#
COLOR	LIGHT SOURCE
RGB	RGB, ABC-enabled (Max 12W, 800Im approx. RGB, color changing) Custom, please specify (Max 12W, fixed color recipe)
LIGHT S	PREAD (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.
	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 connector 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.
SURFAC	E FINISH
CLA BKA	Clear Anodized Black Anodized Custom, please specify
MOUNT	ING HARDWARE 11
TP NO	Tilt + Pan mounting bracket (Tilt 180°, Pan 90°) None Custom, please specify Tilt and pan aimable mounting bracket factory installed as standard. Please refer to
MOUNT	accessories guide for further mounting options.
	ING FINISH 12
SS 	Stainless Steel Custom, please specify 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.



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 of light spread achieved both axially and

transverse, in that order.

AXIAL

TRANSVERSE

















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.

Reach Comparison Diagram 1



