





The SACO Shockwave ECKO is a stylish, compact accent light fixture using high-performance LEDs to deliver precise lighting, from cool to warm white. The ECKO is highly adjustable and is great end-to-end, stacked, or positioned arounc complex structures.

ECKO 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

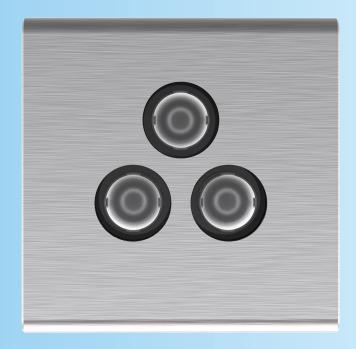
BRIGHT FIXTURE SACO's intelligent control maximizes output for the brightest whites

COMPACT SIZE Ultra-compact design and remote V-BRAIN power allows for low-prof

installation and discreet integration

MODULAR Build the perfect performer by combining and stacking fixtures to suit

**HEAT MANAGEMENT** Efficient heat dissipation. No dirt traps.



ACTUAL SIZE





## 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 1.0lb (0.5kg), 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 4.5W Maximum

V-BRAIN LIMIT 16 (Connect maximum 4 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 whites

OPTICAL

WHITE SERIES High-intensity discrete LEDs

Wide CCT range (2700, 4000, 5700K)

Wide range of CRI (70 to 90+), high R9 value available upon request

Binning as low as 3 MacAdam steps for consistent whites

LUMEN OUTPUT From 270 to over 300 delivered lumens in warm white (WW), depending on

source/optics combo

PERFORMANCE From 60 to over 70lm/W, in warm white (WW) depending on source/optics combo

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 years

ORIGIN Designed and made in North America















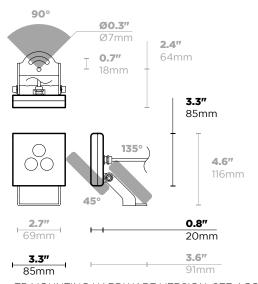


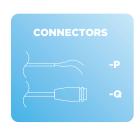




# SPECIFICATIONS GUIDE







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



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### PRODUCT ORDERING CODE

MODEL	MODEL # WHITE LIGHT SOURCE	
WHITE		
CW NW WW DW	Cool White (Max 4.5W, 330lm approx 5700K, 70 CRI min) Neutral White (Max 4.5W, 330lm approx 4000K, 80 CRI min) Warm White (Max 4.5W, 275lm approx 2700K, 90 CRI min) Dynamic White (Max 4.5W, 2700-5700K)	
LIGHT S	SPREAD (AXIAL + TRANSVERSE) 1,2	
N+N M+M W+W M+N W+M	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 55°x40° TIR lens)  1 All beam angle values (FWHM) may vary depending on specified light color. Please refer to photometric guide for corresponding beam angles.	
7	<sup>2</sup> Factory installed. Please refer to accessories guide for field-adjustable optical accessories.	
CONTR	OL SPECIFICATION <sup>3</sup>	
SVD DMX RDM OFF	SACO Video (Up to 65,536 shades per color, dimming down to 0%) DMX512 <sup>4</sup> (Up to 256 shades per color, dimming down to 0%) DMX512 <sup>4</sup> + RDM (Up to 256 shades per color, dimming down to 0%) On/Off (No dimming) <sup>3</sup> Remote power supply and control gear to be ordered separately.	
	Please refer to specification guide.	
<b>-</b>	<sup>4</sup> DMX addresses must be identified on order.	
CABLE	HARNESS CONNECTOR	
Q P	Quick connector <sup>5</sup> (8-pin, overmolded IP67) None, pigtail <sup>6</sup> (2 conductors, stripped wire ends, no connector)	
	<ul> <li>Default option, 8-conductor maximum cable length is 4' (1.2m), see below. Make sure connector choice corresponds with that of remote power supply.</li> <li>2-conductor cable compatible only, see below.</li> </ul>	
CABLE	HARNESS LENGTH	
801.2 8 203.0 2	8-conductor, 4' (1.2m) <sup>7</sup> 8-conductor, custom length (please specify, in meters) <sup>8</sup> 2-conductor, 10' (3m) <sup>9</sup> 2-conductor, custom length (please specify, in meters) <sup>10</sup> <sup>7</sup> Default length option, comes fitted with 8-pin quick connector only (-Q, see above).	
	<sup>8</sup> 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.	
	<ul> <li><sup>9</sup> 2-conductor cables have pigtailed ends as standard (-P only, see above).</li> <li><sup>10</sup> Maximum 2-conductor cable length option is 80' (24m) length.</li> </ul>	
SUDEA	CE FINISH	
CLA BKA	Clear Anodized Black Anodized Custom, please specify	
MOUNT	ING HARDWARE 11	
 _ TP	Tilt + Pan mounting bracket (Tilt 180°, Pan 90°)	
NO	None	
	Custom, please specify  "Tilt and pan aimable mounting bracket factory installed as standard. Please refer to	
_ MC::::-	accessories guide for further mounting options.	
	Chairles Charl	
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	

be applied to stainless steel. Consult your sales agent for

compatible finishes, price and availability.









### PHOTOMETRICS GUIDE













#### A NOTE ON PERFORMANCE

WHITE LIGHT All of the photometrics below are based on a warm white light source (-WW).

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





