

# SHOCKWAVE

VIDEO LIGHTING



SHOCKWAVE  
VIDEO LIGHTING

## CONTENTS

### SHOCKWAVE

ABOUT SHOCKWAVE 08

### PROJECTS

HAZZA BIN ZAYED STADIUM 14

MAROC TOWER 19

DIGITAL CAR WASH 22

CONCORD ADEX 28

MAPLE LEAF SQUARE BRIDGE 34

1075 PEACHTREE 40

KING'S ROAD TOWER 44

18 YORK 50

AGBAR TOWER 51

### PRODUCTS

SHOCKWAVE ALFA 12

SHOCKWAVE ECKO 16

SHOCKWAVE DELTA-1 22

SHOCKWAVE DELTA-2 26

SHOCKWAVE V-STICK 32

SHOCKWAVE V-PIX 38

SHOCKWAVE C-PROX 42

SHOCKWAVE V-BRAIN 48

CORE VIDEO PROCESSOR 54

SHOCKWAVE ACCESSORIES 58

SHOCKWAVE DEMO KITS 60

OTHER CAPABILITIES 64





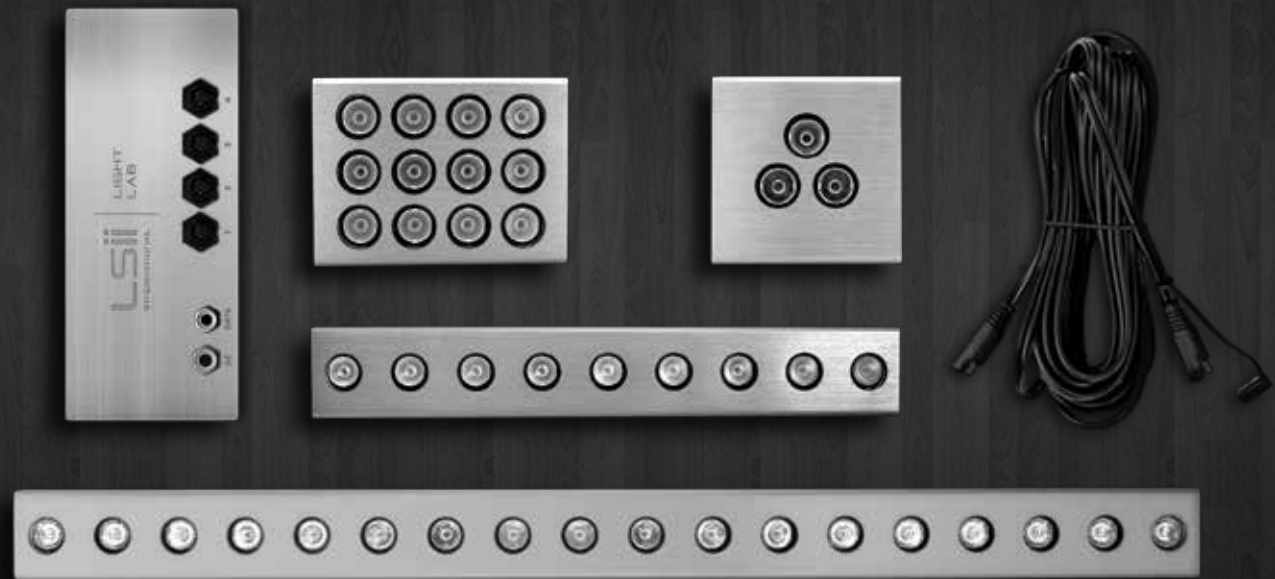
## INTRODUCING THE NEXT GENERATION IN HIGH PERFORMANCE LIGHTING

### LEADING THE WAY

SACO brings you the new Shockwave architectural video lighting series. Lighting fixtures and power units combined with our range of accessories will give you unlimited lighting possibilities. Forget the hassle of searching through hundreds of fixtures to find the right lighting configuration for your project.

Our modular design means you can easily combine the Shockwave accessories and fixtures to create almost any light effect you require. Get creative with our brand new video lighting system. Get more color depth, more color fidelity and so much more color resolution. Use high definition video protocol through the Shockwave products to light up the world. Thin, powerful, and lightweight, the Shockwave family of products pushes ahead of the competition with its stylish design making your vision possible wherever they are mounted.





CUTTING-EDGE DESIGN  
MEETS CUTTING-EDGE TECHNOLOGY



## ARCHITECTURAL VIDEO LIGHTING

The Shockwave series offers unlimited design possibilities and configurations. Our LED fixtures provide improved aesthetics, easy installation, easy maintenance and consistent performance. The thin, stylish fixtures allow for maximum performance in a variety of applications, environments, and extreme weather conditions. The Shockwave modules can be applied to any structure, providing either a subtle emphasis or a dramatic atmosphere to your indoor and outdoor lighting projects.



## CUSTOM & SIGNATURE LIGHTING

Need a tailor-made solution? Then our SACO Design Lab team can work with you to help design and manufacture a bespoke fixture. From electronic internals and wiring to casing and accessories, we have years of experience to bring out the best in your lighting project.



## SHOCKWAVE PRODUCT RANGE

Our Shockwave Video Lighting product range allows you to create hundreds of lighting styles using a small number of high-powered, long lasting, modular fixtures. Each fixture is designed with a certain lighting purpose in mind, but with our extensive list of accessories, these can be combined and fine-tuned to achieve the desired lighting effect with the highest detail. All our fixtures are available in warm white, cool white, adaptive white, RGBWA and full RGB Video Lighting as well as a full range of beam angles.



## PRODUCT ACCESSORIES

Tired of searching through catalogues of hundreds of lighting fixtures trying to find the correct fixture for your installation? With our line of Shockwave Video Lighting Accessories we've made it simple to create any fixture configuration you require. Get creative with our modular, easy-to-bolt-on system. We also manufacture custom accessories, allowing for even the most complex and unique configurations to be achieved.





SMALL SIZE. HUGE IMPACT.

SHOCKWAVE VIDEO LIGHTING | ALFA

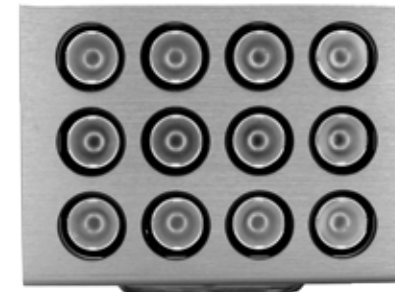
BUILT TO GO FURTHER

The SACO SHOCKWAVE ALFA is a stylish, compact, wall-grazing or wall-washing fixture that utilizes high performance LEDs in order to provide uninterrupted dispersion of intense light in any color. The ALFA is highly adjustable and is great end-to-end, stacked or positioned around curved and other complicated structures.

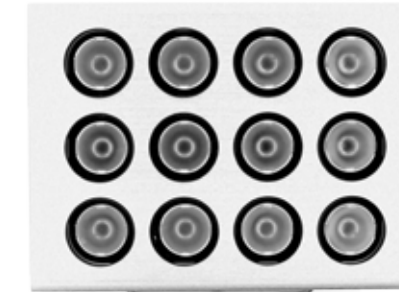
ALFA has narrow, medium, wide, and asymmetric optic options making this fixture compliant to most projects.



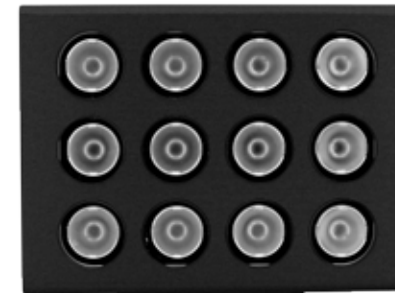
COLOR OPTIONS



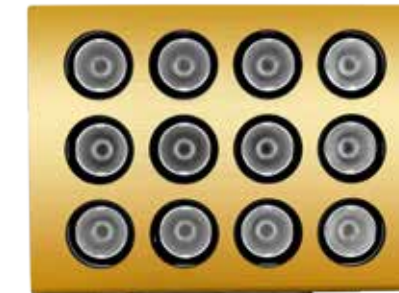
POLISHED ALUMINIUM



MATTE WHITE



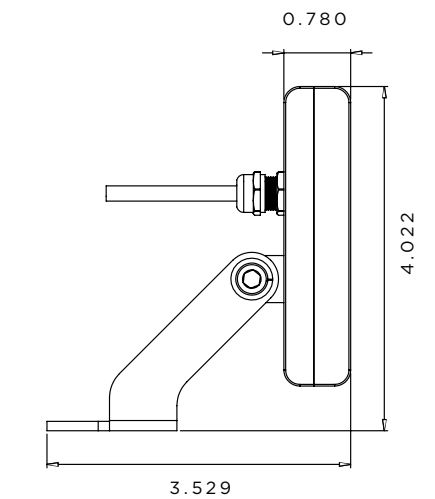
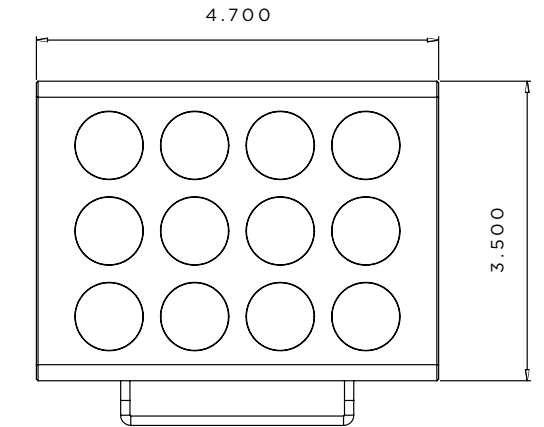
MATTE BLACK



CUSTOM



DIMENSIONS





**SACO ILLUMINATES ONE OF TODAY'S MOST STUNNING ARCHITECTURAL FEATS - THE HAZZA BIN ZAYED STADIUM, AL AIN CITY**

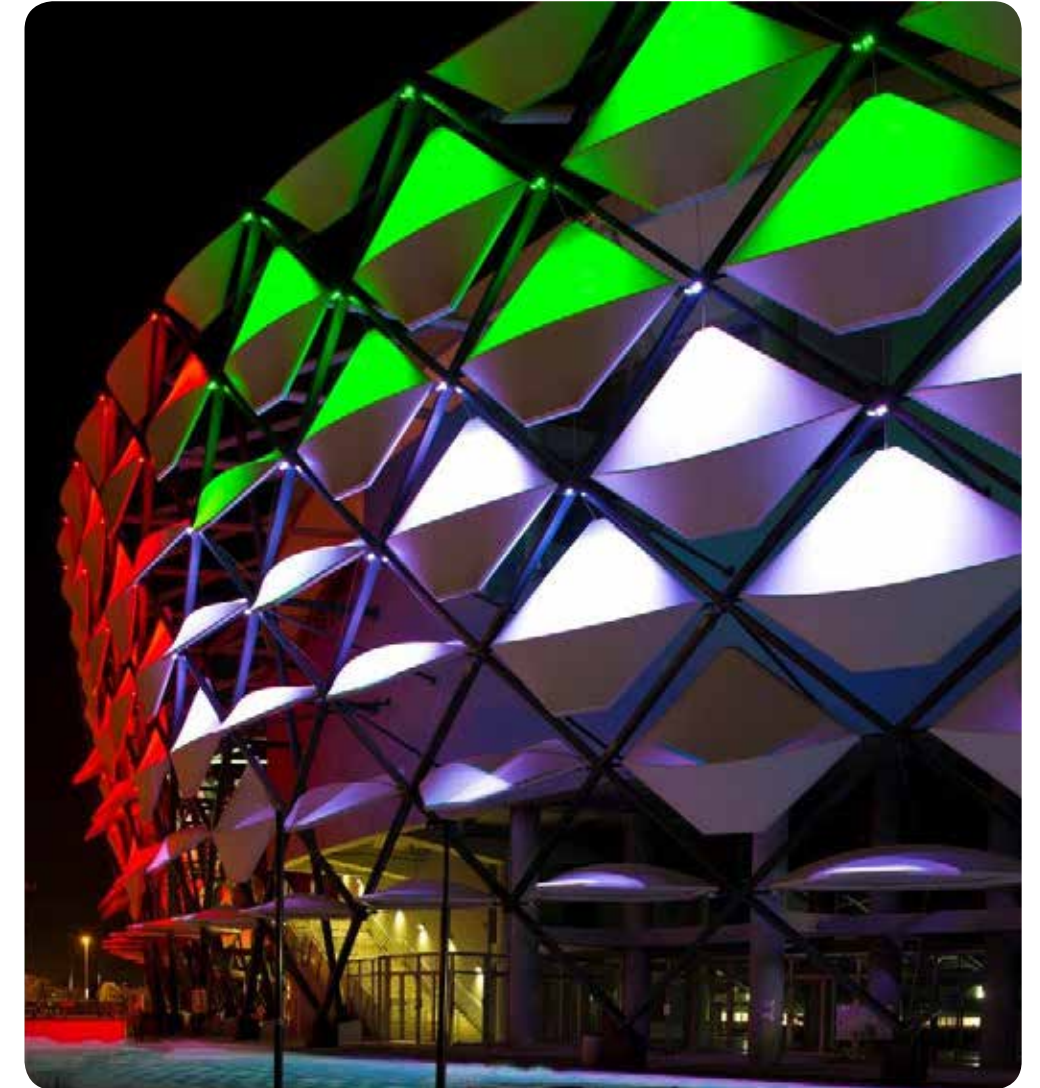
SACO is proud to be a part of one of today's most stunning architectural feats, the Hazza Bin Zayed Stadium in Al Ain City, U.A.E. Launching today marked by a three-day festival aptly named The Big Kick-Off, the new 25,000-seat Hazza Bin Zayed Stadium covers an area of 45,000 m2 and is over 50m high, making it one of the tallest structures in Al Ain City.

SACO was selected to develop the stadium's façade lighting solution. The outer shell of the stadium is comprised of over 600 individual panels designed to resemble the trunk of the palm tree. Each panel is illuminated using a custom version of the SACO Shockwave Video Lighting system. The lighting of each panel can be independently controlled and is capable of displaying different colors and design patterns reflective of

special events. Recently the external façade displayed colors re-creating the UAE flag.

Jonathan Labbee, COO of SACO, commented, "SACO designed a custom interface that allows the venue to interact with specific events like goals, halftime, and other events; essentially the video lighting allows the Stadium to express itself by creating beautiful colors, patterns and movement."

SACO is very proud to have worked with such a great team of professional companies such as Pattern Design, BAM International, and ETA to bring the vision of the Hazza Bin Zayed stadium to life.



SHOCKWAVE VIDEO LIGHTING | ECKO

SMALL. BRIGHT. POWERFUL.

The SACO SHOCKWAVE ECKO is a stylish, compact, wall-grazing or wall-washing fixture that utilizes high performance LEDs in order to provide uninterrupted dispersion of intense light in any color. The ECKO is highly adjustable and is great end-to-end, stacked or positioned around curved and other complicated structures.

ECKO has narrow, medium, wide, and asymmetric optic options making this fixture compliant to most projects.



COLOR OPTIONS



POLISHED ALUMINIUM



MATTE WHITE



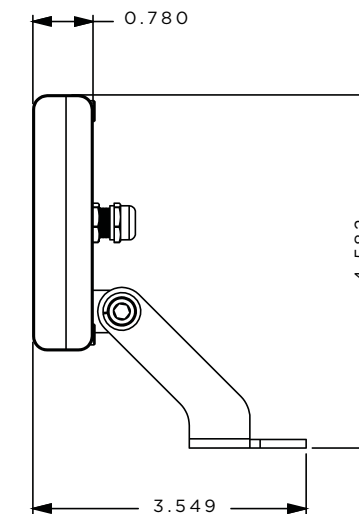
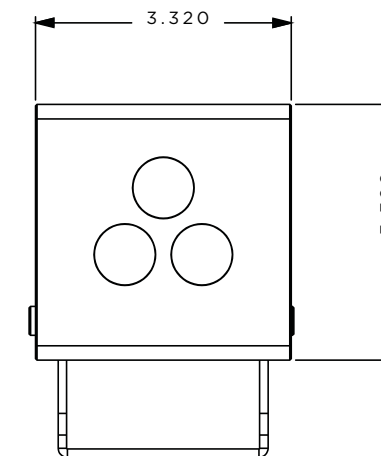
MATTE BLACK



CUSTOM



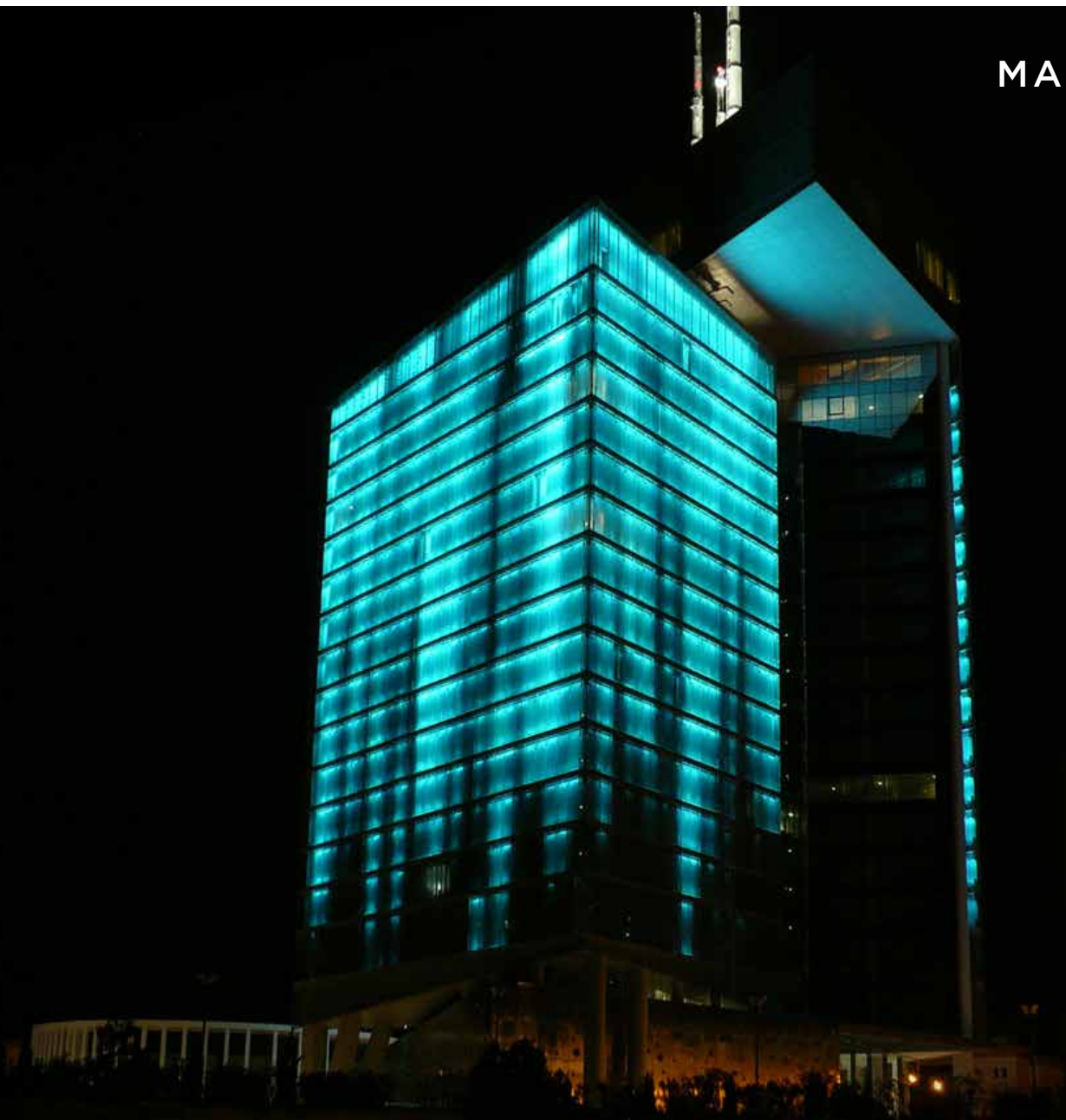
DIMENSIONS





7598683 8421368

**OUR VERY OWN PATENT NUMBERS**  
FULL FRAME. FIXED DURATION.





SHOCKWAVE VIDEO LIGHTING | DELTA-1

THIN. SLEEK. STYLISH.

The SACO SHOCKWAVE DELTA-1 is a stylish, compact, wall-grazing or wall-washing fixture that utilizes high performance LEDs in order to provide uninterrupted dispersion of intense light in any color. Available in 1'-0" lengths the DELTA-1 Mono is highly adjustable and is great end-to-end, stacked or positioned around curved and other complicated structures. DELTA-1 has narrow, medium, wide and asimetric optic options making this fixture compliant to most projects.



COLOR OPTIONS



POLISHED ALUMINIUM



MATTE WHITE

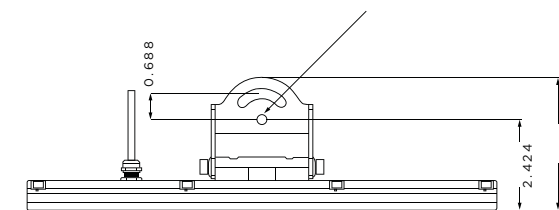
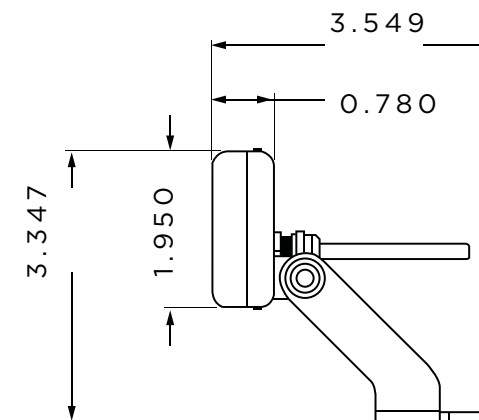
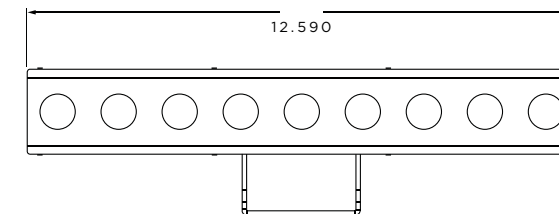


MATTE BLACK



CUSTOM

DIMENSIONS



**DIGITAL CAR WASH EXPERIENCE**

The experience of the car wash has now been given a unique twist, changing the conventional routine car wash into a visually engaging and exciting experience for both users and onlookers alike with its new color-changing lightBox scheme.

To create this unique experience, SACO's design team utilized advanced architectural show strategies; the "space" was divided into projection surfaces and treated independently to create a layered effect.

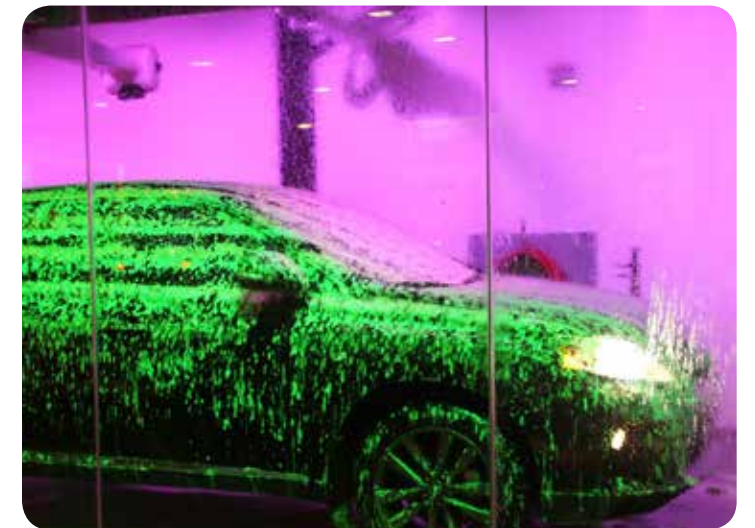
The back wall inside the car wash is fitted with SACO's Shockwave ALFA VIDEO LIGHTS to illuminate the entire surface and allow the area to stand out from a distance, whilst the Shockwave DELTA-2's beam down from all angles onto the vehicle, creating a second highlighted surface of the car and inciting passengers with a colorful "bubble and soap" show from inside the vehicle. In addition, SACO's Shockwave ALFA's were installed to highlight the water spray. The combined effects generate a fun and interactive experience that will make you want to clean your vehicle over and over again. Adding to the scene, each type of wash has its own unique content and color scheme. The result is a great balance between art, branding and commercial value.



The Digital Car Wash Experience is proving to be a success! Not only is it generating more sales, but also making the gas station a more entertaining place to be. SACO carried out this entire project from the initial design process to completing the installation and providing a simple to use, interactive control system.

With corporate offices in Europe, the Middle East, and North America, SACO's team boasts over 20 years of experience in the development and supply of industry leading Solid State LED Lighting and Media Solutions. As an innovator, we are continually improving durability, quality, and reliability of our products, while maintaining a state-of-the-art design adaptable to today's dynamic environment.

SACO has become the technological leader and preferred brand name in both indoor and outdoor LED Solid State Lighting and Media Solutions. Our mission is to provide our clients with the most comprehensive and dependable integration of Design, Engineering, Products, and Support program available in the global marketplace.







## TRILLIONS OF COLOR

341 TRILLION COLORS WITH 65536 SHADES PER COLOR



## ADVANCED PASS-THROUGH HEAT SYNC DYNAMICS

HEAT DISPERSES IN VARIED CONDITIONS WITH OUR UNIQUE  
PATENTED HEAT SYNC TECHNOLOGY



SHOCKWAVE VIDEO LIGHTING | DELTA-2

LIGHTING MULTIPLIED

The SACO SHOCKWAVE DELTA-2 is a stylish, compact, wall-grazing or wall-washing fixture that utilizes high performance LEDs in order to provide uninterrupted dispersion of intense light in any color. Available in 1'-0" lengths the DELTA-2 Mono is highly adjustable and is great end-to-end, stacked or positioned around curved and other complicated structures. DELTA-2 has 10°, 16°, 30°, 50° and 16°x34° optic options making this fixture compliant to most projects.



COLOR OPTIONS



POLISHED ALUMINIUM



MATTE WHITE

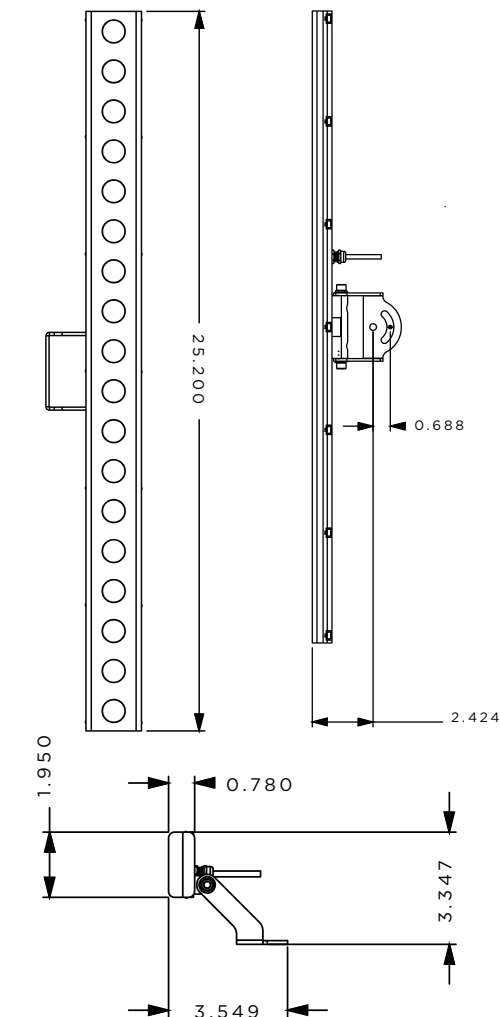


MATTE BLACK



CUSTOM

DIMENSIONS



CONCORD ADEX

Warm By Night is a public art commission for CityPlace towers south of Front St. on both sides of Spadina Ave. in Toronto. The Concord Adex Development corporation requested an artistic roof-top lighting treatment that would unify and define the towers within the skyline. There was a proposal to illuminate the mechanical levels of each tower with warm-colored light as a way of emphasizing warmth, welcome, and domesticity. The towers were thereby marked as being people's homes and lent a subtle sense of habitation and animation. SACO illuminated the top section of one of the skyscrapers in blue using the powerful SHOCKWAVE DELTA-2 RGB Video Lighting fixture.

As well as lighting up the tower top, SACO also was invited to illuminate The Puente de Luz footbridge below. For this bridge the slightly smaller SHOCKWAVE DELTA-1 fixtures were used in warm white to compliment the color of the bridge.







SHOCKWAVE VIDEO LIGHTING | V-STICK

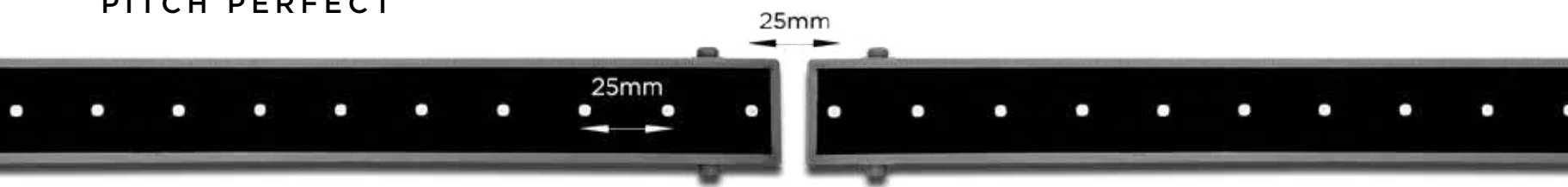
OUTSTANDING BRIGHTNESS

The V-STICK LED VIDEO/LIGHT Fixture is an innovative and powerful solution to direct viewing visual lighting or video applications that require lightweight, flexible elements to highlight a building or to run full video while maintaining architectural integrity that might be compromised with the bulk of a traditional video screen system.

The housing is sleek, low profile, and designed to be used on its own or inside custom extruded housings. More efficient high performance lighting and energy savings are achieved by the ability to select lengths, optics and placement height. This solid state lighting solution is reliable and utilizes the latest in LED and SACO Smartvision driving technology.



PITCH PERFECT



COLOR OPTIONS



BLACK



GREY

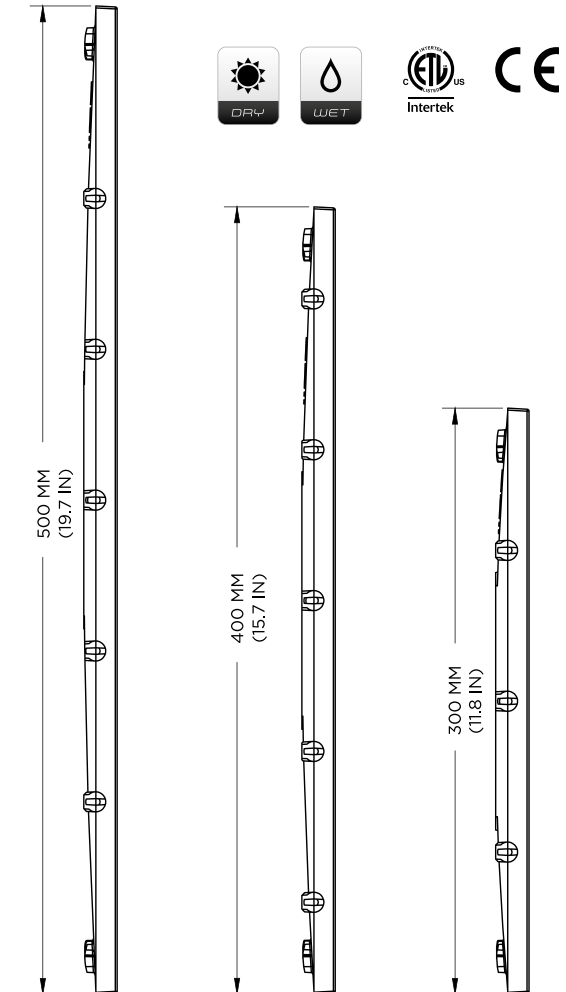


WHITE



CUSTOM

DIMENSIONS



**MAPLE LEAF SQUARE BRIDGE  
- TORONTO**

SACO was contracted to design and install the lighting display and systems for “Connection”, a public art illuminated foot bridge leading from the Maple Leaf Square development into the Air Canada Centre in downtown Toronto.

This lighting system is a computer controlled multi-colored, motion sensitive LED lighting system that has programmed artistic lighting patterns that respond to pedestrians walking through the bridge, creating an interactive experience. Clear tubes run from ceiling to floor holding the LED lights, while the wiring for same is completely hidden. Lighting is also installed beneath the handrails to provide a down-lighting effect.



# VIDEO KILLED THE DMX



## DMX VS VIDEO

SACO's VIDEO SYSTEM is fully compatible with the latest broadcast standards. Furthermore the control and content systems are very easy to operate, making it simple for anyone to program the installation. SACO accomplishes this by separating the Geometry of the building from the programming, meaning that the complex part of programming the installation only needs to be done once. After, it's as simple as choosing the video effect you want to run on the project and "Drag and Drop" in the timeline. In addition, the system comes pre-loaded with the ability to run interactive content so that in the future, should the client choose, the building could react to outside triggers. The built in pre-visualizer allows the client to view it on a 3D model of the building and approve the content before deployment. Another SACO Innovation.

## DMX VS VIDEO

FEATURES	DMX	SACO VIDEO
UNIVERSES	1	12,000 +
COLOR PROCESSING	8 bit	18 bit per color
VIDEO PROCESSING	DNA	16 bit per color   100% digital
CALIBRATION	Manual	Automatic
FPS	30	60
DATA TRANSFER RATE	250kbit	1.485GBIT (1485000Kbit)
STEPS / COLOR	256	65536
DIMMING STEPS	255	65536
MAX FIXTURES PER UNIVERSE	170	2073600



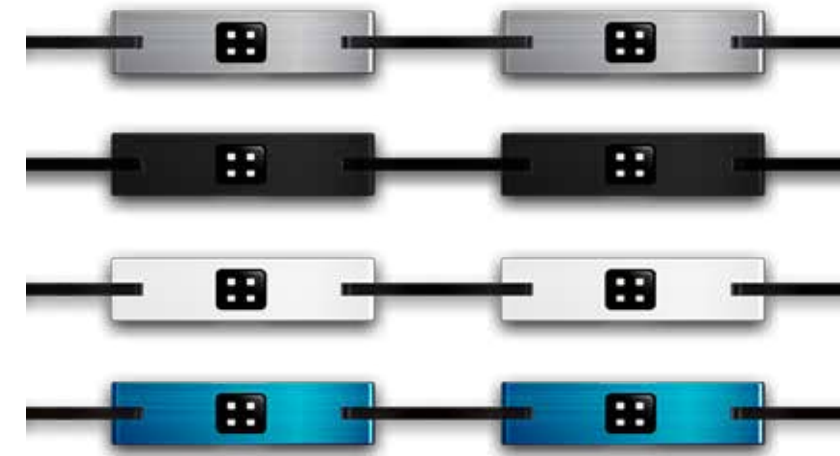
SHOCKWAVE VIDEO LIGHTING | V-PIX

FLEXIBLE INNOVATION

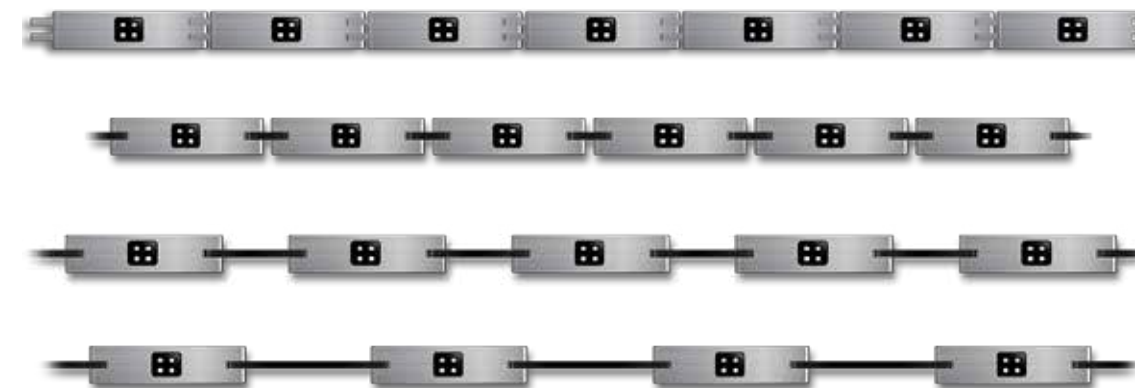
The SACO V-Pix Pixel system is a low resolution, easy to install DMX or Video applications. The housing is sleek, low profile, and designed to be used on its own or inside custom extruded housings with built in power supplies. More efficient high performance lighting and energy savings are achieved by the ability to select lengths, optics and placement distances. This solid-state solution is reliable and utilizes the latest in LED and Screen Lab driving technology.



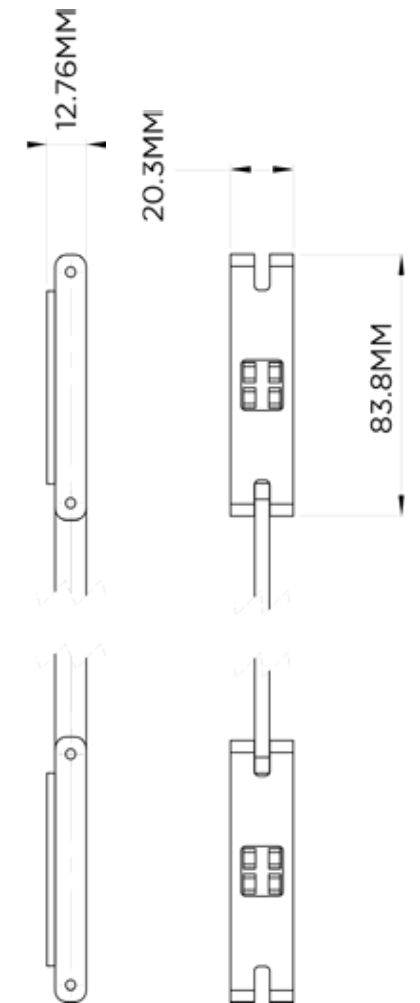
COLOR OPTIONS



PIXEL WIDTHS



DIMENSIONS



## 1075 PEACHTREE

The lights and images become part of the body of the surface they inhabit. Does the light mold itself to the architectural forms or do the structures themselves arch into the light? An organic relationship, the urban environment is subtly activated to engage both employees and passersby.

SACO and Moment Factory collaborated to create an LED media façade that serves as a continuous visual animation for this iconic location. Integrated into the architecture, the media façade creates an impression of the building as a living organism. The technology is hidden – it is the experience that engages the public.

A framework of 5000 pixel RGB LED screens were built on the building's façade. To avoid use of a matrix, the units are laid out in a quincunx form to make an asymmetrical whole. A prismatic Lexan used for projection warps the pixels to create a 3D impression.



SHOCKWAVE VIDEO LIGHTING | C-PROX

INCREDIBLY THIN.  
INCREDIBLY BRIGHT.

The LED C-PROX HO Light Fixture (High Output) is an innovative and powerful solution to 'close proximity' and direct view applications that require smooth, uninterrupted lighting. The housing is sleek, low profile and designed to be used on its own or inside custom extruded housings and reflectors. More efficient high performance lighting and energy savings are achieved by the ability to select lengths, optics and placement. This solid-state lighting solution is reliable and utilizes the latest in LED and Light Lab driving technology.



4 DIFFERENT LENGTHS. BECAUSE SIZE MATTERS.



COLOR OPTIONS



BLACK



GREY



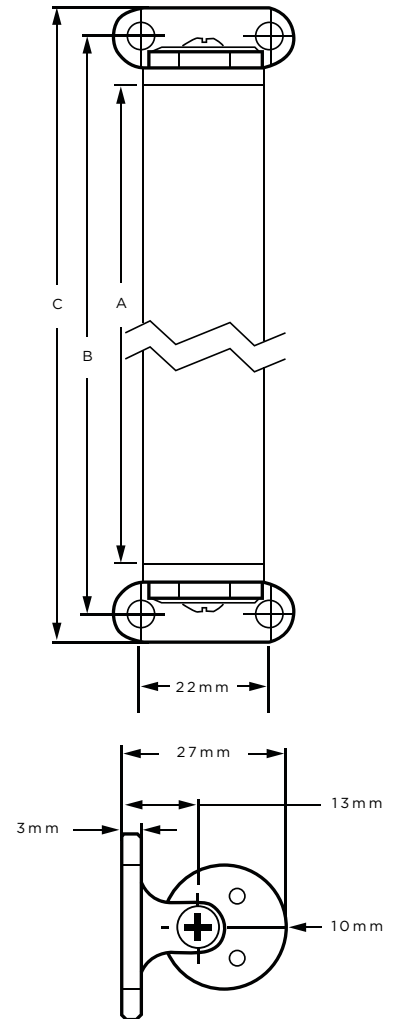
WHITE



CUSTOM



DIMENSIONS





KING'S ROAD TOWER - JEDDAH



# PRECISION ANGLES



## NARROW

COOL WHITE/WARM WHITE 11°  
COLOR (RGB) 13°



## MEDIUM

COOL WHITE/WARM WHITE 30°  
COLOR (RGB) 30°



## WIDE

COOL WHITE/WARM WHITE 58°  
COLOR (RGB) 50°



## ASYMMETRICAL

COOL WHITE/WARM WHITE 55°x39°  
COLOR (RGB) 53°x36°

# FULLY LOADED WITH COLOR



2700K



3000K



3500K



4000K



5700K



ADAPTIVE  
WHITE



RED



GREEN



BLUE



AMBER



RGB



VIDEO



SHOCKWAVE VIDEO LIGHTING | V-BRAIN

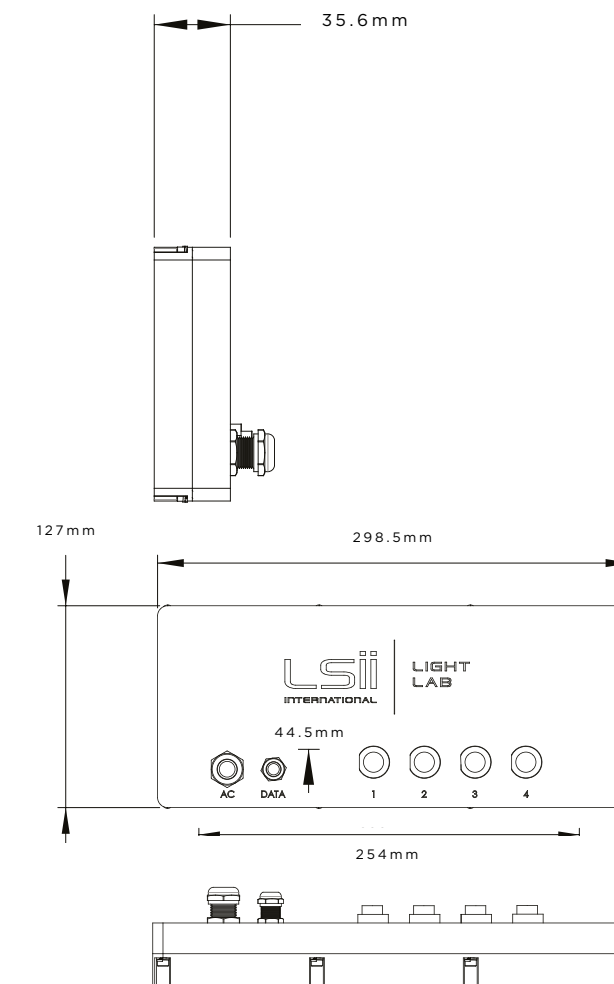
BEHIND THE SCENES MASTERMIND

Shockwave V-Brain Pro is an innovation in power and data delivery. The perfect hybrid between on board power and remote power, without the bulk and painful installation procedures.

Tethered power and data allows the Shockwave line of fixtures to take full advantage of the latest SACO solid state technology and heat-synching methodology, and sheds weight and bulk to leave only a slim, powerful, great looking fixture which can easily be dissimulated within any project. Using the same thought process, the Shockwave V-Brain Pro is designed exactly like a Shockwave fixture, modular, stackable, slim, and weather resistant. The Shockwave V-Brain Pro accepts DVI Video , DMX, and Ethernet DMX.

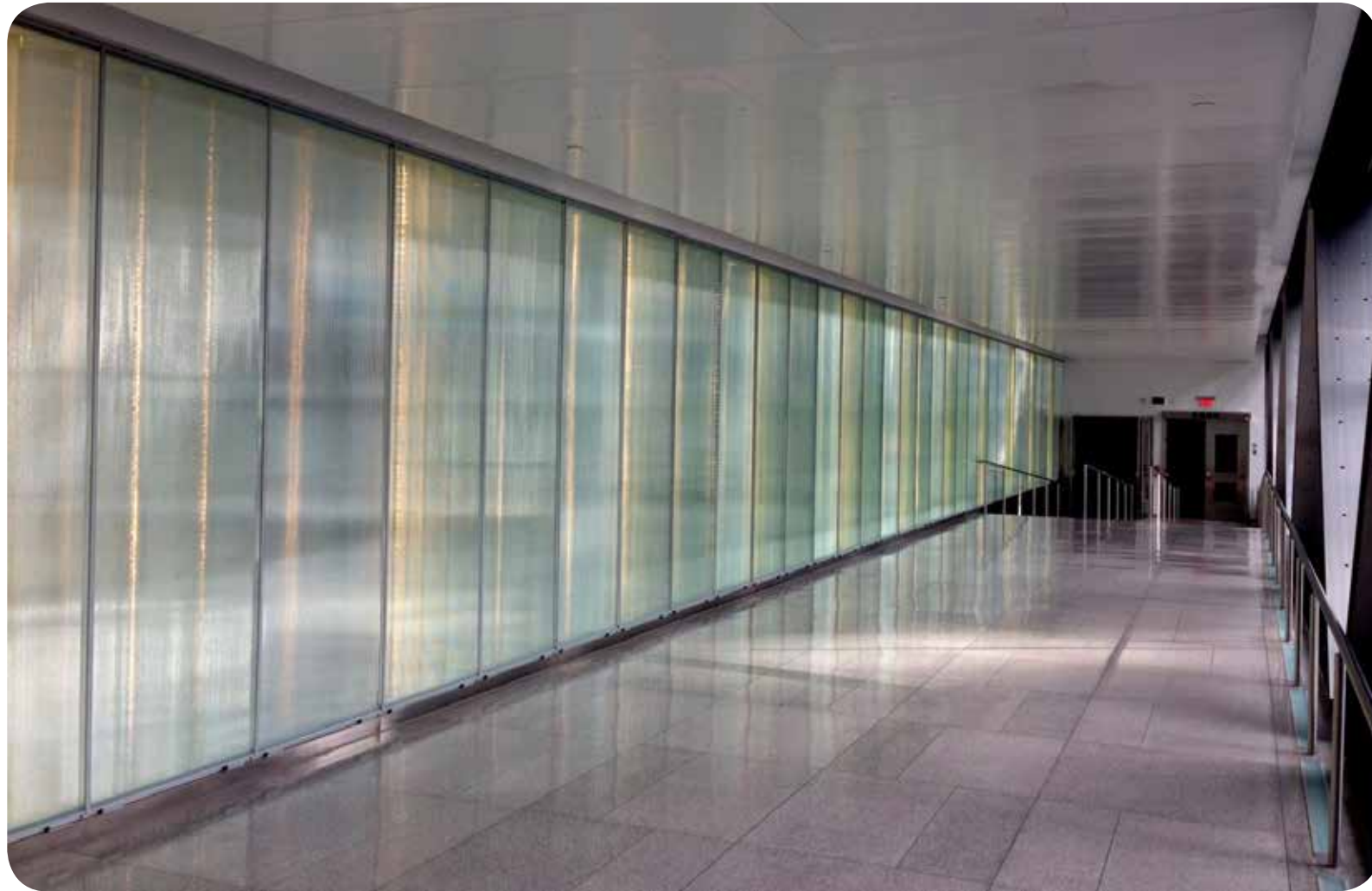


DIMENSIONS



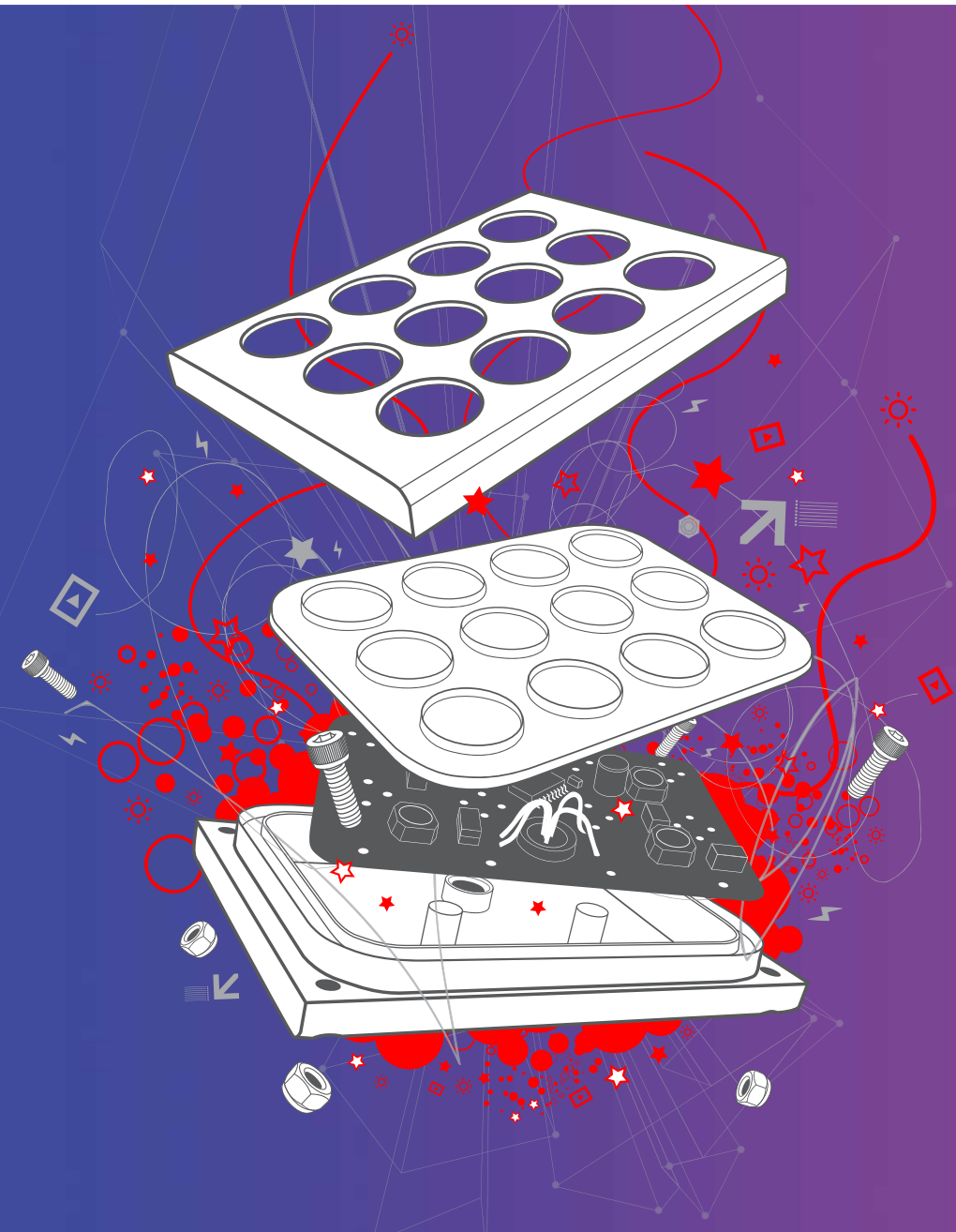


18 YORK - TORONTO



AGBAR TOWER - BARCELONA



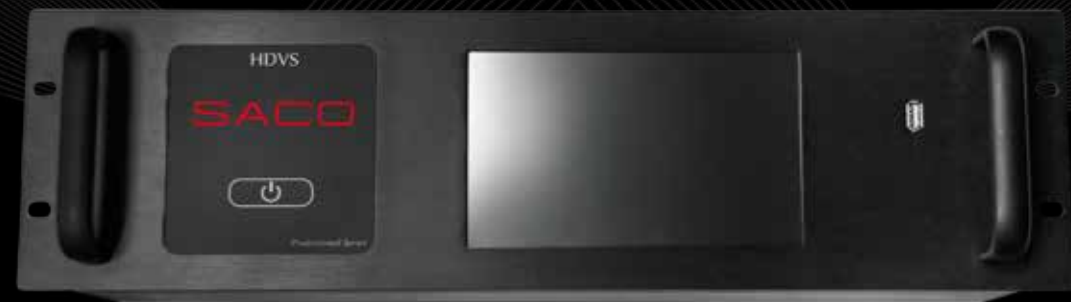


BURSTING WITH TECHNOLOGY



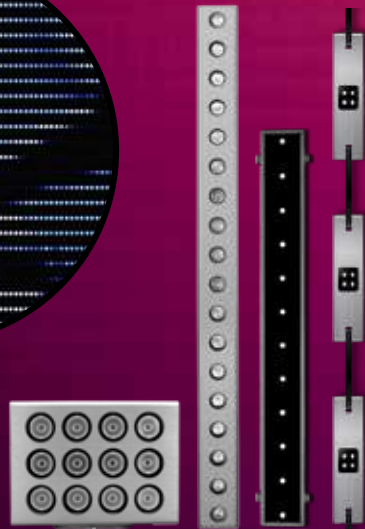
# CORE

VIDEO PROCESSOR





FIXTURES



POWER/DATA CABLE  
(DISTANCES UP TO 25M)

V-BRAIN



UTP CABLE  
(UP TO 50M)

FIBER  
RECEIVER



FIBER OPTIC  
CABLE

VIDEO  
PROCESSOR

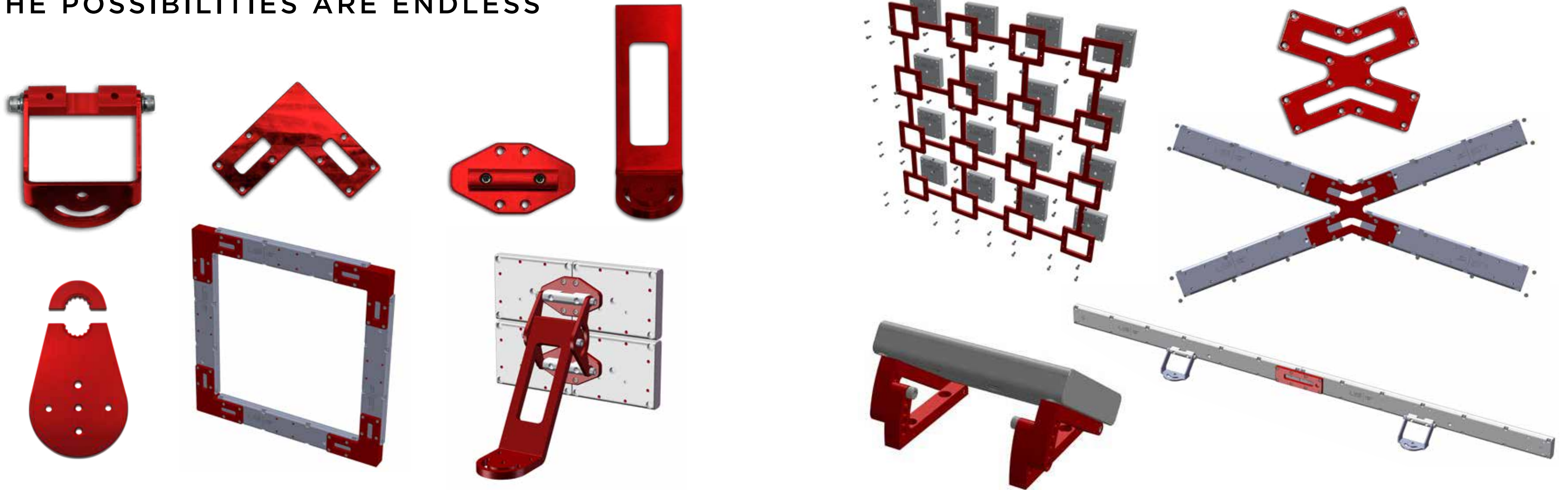


CONTENT  
GENERATOR



HOW WE USE VIDEO LIGHTING

THE POSSIBILITIES ARE ENDLESS





DEMO KITS NOW AVAILABLE



PACKAGE 1

- 2 x SHOCKWAVE ALFA (WW 50°, RGB 30°)
- 2 x SHOCKWAVE ECKO (WW 13°, RGB 13°)
- 2 x SHOCKWAVE DELTA-1 (WW 13°, RGB 30°)
- 2 x SHOCKWAVE DELTA-2 (WW 30°, RGB 13°)
- 1 x V-BRAIN

PACKAGE 2

- 2 x SHOCKWAVE ALFA (WW 50°, RGB 30°)
- 2 x SHOCKWAVE ECKO (WW 13°, RGB 13°)
- 2 x SHOCKWAVE DELTA-1 (WW 13°, RGB 30°)
- 2 x SHOCKWAVE DELTA-2 (WW 30°, RGB 13°)
- 1 x V-BRAIN
- ROAD-CASE

PACKAGE 3

- 2 x SHOCKWAVE ALFA (WW 50°, RGB 30°)
- 2 x SHOCKWAVE ECKO (WW 13°, RGB 13°)
- 2 x SHOCKWAVE DELTA-1 (WW 13°, RGB 30°)
- 2 x SHOCKWAVE DELTA-2 (WW 30°, RGB 13°)
- 1 x V-BRAIN
- ROAD-CASE
- CONTROLLER

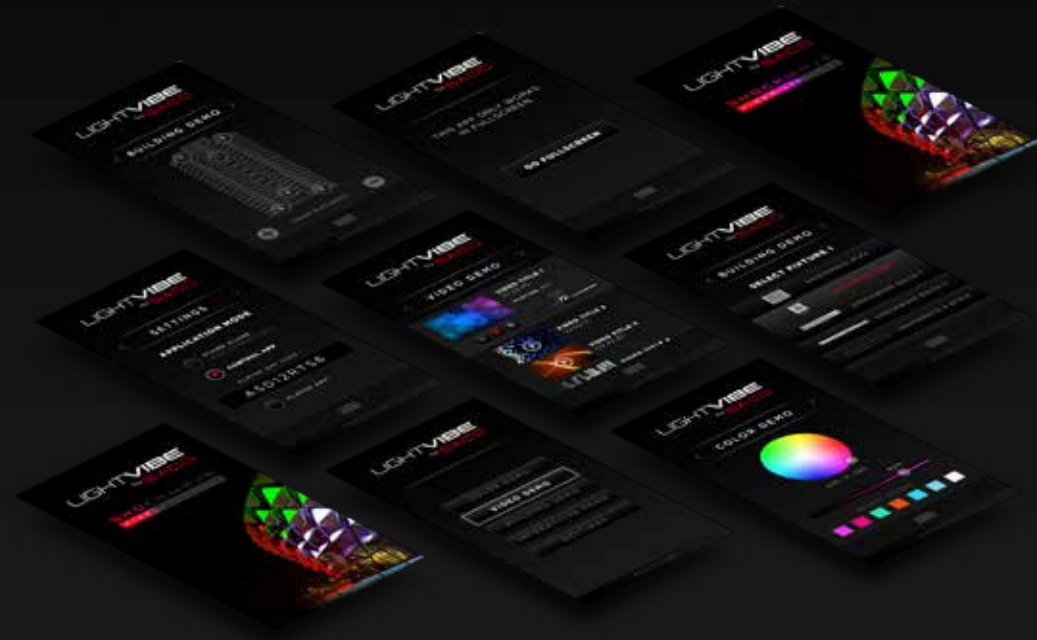




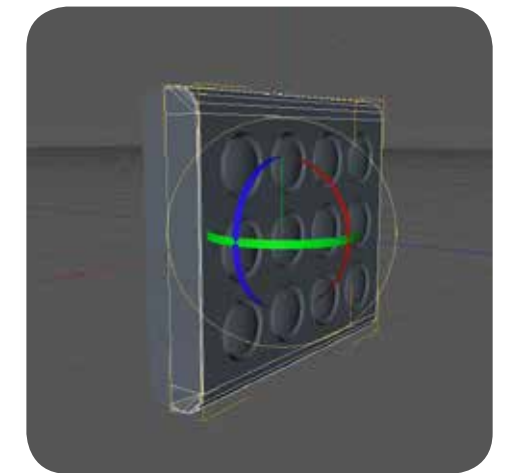
FEEL THE POWER

# LIGHTVIBE

by SACO









The image is a horizontal banner with rounded corners. It features a dark background with a color gradient from deep purple on the left to dark blue on the right. A series of glowing, multi-colored light trails (blue, purple, pink, red, orange, yellow) flow from the left side towards the right. On the right side, a rectangular light fixture with a grid of 12 circular LEDs is shown, emitting a bright yellow light. The text 'CREATIVE LIGHTING' is centered in the upper right area in a white, sans-serif font.

CREATIVE LIGHTING



SHOCKWAVE  
VIDEO LIGHTING



# SACO

**SACO Technologies Inc.**  
7809 Trans Canada  
Montreal, QC,  
H4S 1L3,  
Canada

**tel** +1.514.745.0310  
**email** [info@saco.com](mailto:info@saco.com)  
**web** [www.saco.com](http://www.saco.com)