

ACTUAL SIZE

# **S V-BRAIN 1600**

## **SHOCKWAVE V-BRAIN 1600 | CONTROLS**

The SACO Shockwave V-BRAIN 1600 is an innovation in power and data delivery, designed to control Shockwave Direct View products. The perfect hybrid between on-board power and remote power, designed for quick and easy installation.

Compact yet powerful, the SVB-1600 delivers up to 1600W and SACO's proprietary V-STREAM data. The Shockwave V-BRAIN 1600 is designed like the Shockwave fixtures, modular, stackable and slim. This model comes as a rackmount unit.

<b>DEEP COLOR</b>	SACO's proprietary V-STREAM high-speed, high-resolution video pixel control. 16-bit data sampling for silky smooth dimming, with 65,536 shades per color.
<b>BUILT TO LAST</b>	Sturdy construction built for indoor conditions.
<b>REMOTE CONTROL</b>	Tethered power and data allows for slimmer fixtures and discreet integration. Feedback loop provides status information on system.
<b>MODULAR</b>	Expand the system by combining series of V-BRAINS and stacking fixtures to suit. No tools required, self-addressing quick connectivity. Compact design takes less than 2U on a standard 19" (48.3 cm) wide rackmount.
<b>HEAT MANAGEMENT</b>	Design ensures heat dissipation through both conduction and forced convection.

**SACO**

# S V-BRAIN 1600

## FEATURES GUIDE



### PHYSICAL

CONSTRUCTION	Die-formed laser cut high grade 5052-H32 aluminum housing (0.080"/2mm) Stainless steel hardware
MOUNTING	Mounts to a standard 19" rack cabinet mounting frame Compact footprint uses a little less than 2U Die-formed laser cut cold rolled steel mounting brackets (0.125"/3mm)
SURFACE FINISH	Durable polyester powder coating
WEIGHT	12.7lbs (5.8kg)

### THERMAL

OPERATING TEMP	-40°F to 86°F (-40°C to 30°C)
HEAT CONTROL	Forced air cooling by DC fan

### ELECTRICAL

INPUT VOLTAGE	90-264VAC (47-63 Hz) / 12VDC (LPS)
INPUT CURRENT	15A @ 115VAC Typical, 8.5 A @ 230VAC Typical / 1.6A (LPS)
OUTPUT VOLTAGE	48VDC Typical (Min 47.5VDC, Max 54VDC)
OUTPUT CURRENT	33.5A Maximum
OUTPUT POWER	1608W Maximum

### CONNECTORS

POWER INPUT	Standard IEC C13 receptacle (front panel) Standard barrel jack panel mount receptable (back panel)
DATA INPUT	Standard RJ45 receptacle
FIXTURE OUTPUT	6 x 6-pin terminal block ports Refer to basic wiring guide for general lead cables to daisy chain ratios Consult SACO for optimal system configuration on your project
DATA OUTPUT	Standard RJ45 receptacle, for serial V-BRAIN data connections

### SHOCKWAVE ACCESSORIES

VIDEO PROCESSORS	Multiple Shockwave video processing options are available See accessories guide for options
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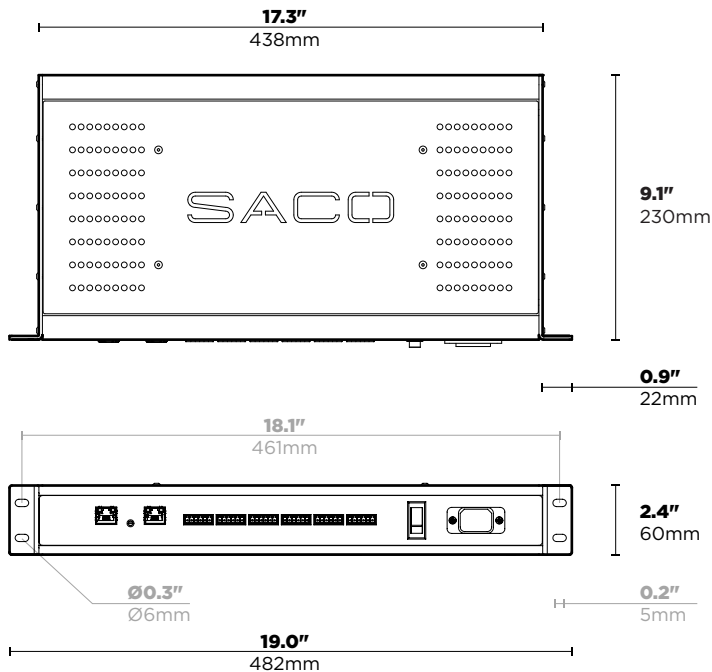
### ADDITIONAL INFORMATION

CERTIFICATION	CE (as per IEC 62368-1) NRTL (as per CAN/CSA-C22 No. 62368-1:2014-12 / UL 62368-1:2014-12)
WARRANTY	5 years
ORIGIN	Designed and made in North America



# S V-BRAIN 1600

## SPECIFICATIONS GUIDE



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

### PRODUCT ORDERING CODE

#### MODEL #

#### NOMINAL POWER

**1600** 1600 Watts <sup>1</sup>

<sup>1</sup>Maximum nominal distribution of power to all outputs. Actual maximum power will depend on the length of each lead cable. Refer to basic wiring guide for general lead cables to daisy chain ratios, and consult SACO for optimal system configuration of your project.

#### ENVIRONMENT COMPABILITY

**D** Dry/Indoor

#### MAINS VOLTAGE

**-1** 90-264VAC

#### BODY FINISH

**BKM** Black polyester powder coating, matte  
-- Custom, please specify

#### MOUNTING PLATE FINISH

**RDG** Red polyester powder coating, glossy  
-- Custom, please specify

## CABLE HARNESS

### PRODUCT ORDERING CODE

#### MODEL #

#### LEAD CABLE HARNESS CONNECTORS

**Q** Quick connector <sup>1,2</sup> (6-pin, overmolded IP67 quick connector)

<sup>1</sup>Standard option overmolded on a 6-conductor cable, see below. The end of the lead cable connecting to the V-BRAIN is a hardwired 6-pin terminal block, while the end connecting to the fixture is a 6-pin quick connector.

<sup>2</sup>Please note each cable harness kit comes with a 2' (0.6m) starter cable to power the first fixture in the chain, as well as an end block to terminate and seal the last fixture in the chain. Jumper cables are included in V-Stick S kits, see specification guide for details.

#### LEAD CABLE HARNESS NOMINAL LENGTHS

**6020.0** 6-conductor, 65' (20m) <sup>3</sup>

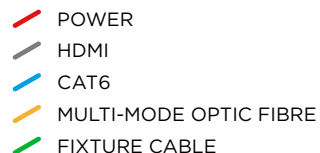
**6---** 6-conductor, Custom length (please specify, in meters) <sup>3,4</sup>

<sup>3</sup>Comes fitted with overmolded 6-pin quick connector (-Q, see above).

<sup>4</sup>Maximum cable length is 425' (130 m). Refer to basic wiring guide for general lead cables to daisy chain ratios. Consult SACO for optimal system configuration on your project.



## WIRING GUIDE - V-STICK S

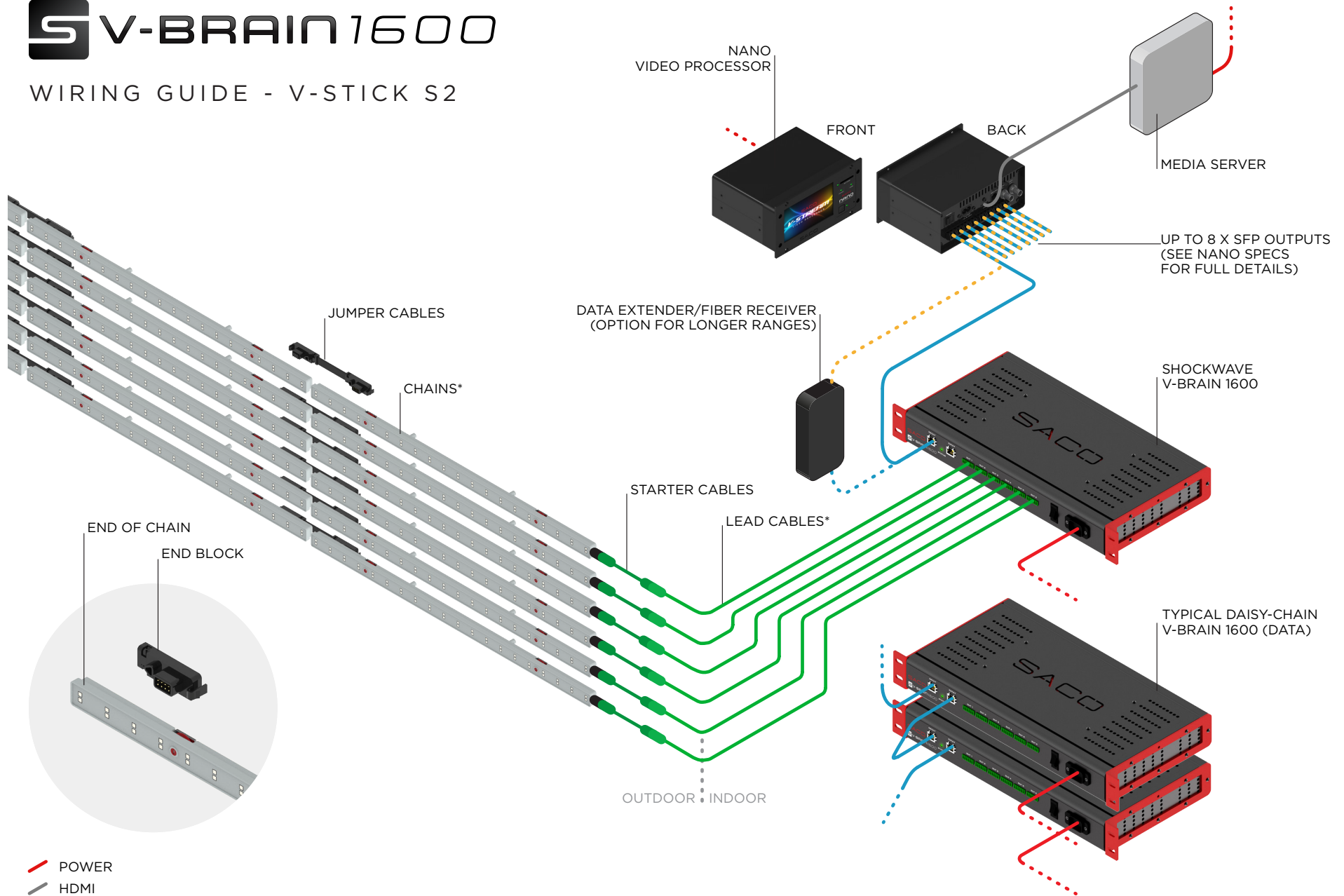


Multi-mode duplex optic fibre for fast reliable transfer over long distances.

\*Max lead cable length to V-Brain is 425 ft (130 m) for chains up to 31 ft (9.6 m). Fixture chains up to 41 ft (12.8 m) possible for lead cables up to 328 ft (100 m).

# S V-BRAIN 1600

## WIRING GUIDE - V-STICK S2



- POWER
- HDMI
- CAT6
- MULTI-MODE OPTIC FIBRE
- FIXTURE CABLE

Theoretical Max CAT6 or better instead. Cable length is 328ft (100m) in ideal installation conditions, for video data speeds.

Multi-mode duplex optic fibre for fast reliable transfer over long distances.

\*Max lead cable length to V-Brain is 212ft (65m) for chains up to 15ft (4.8m). Fixture chains up to 20ft (6.4m) possible for lead cables up to 164ft (50m).