



S V-BRAIN 100

SHOCKWAVE V-BRAIN 100 | CONTROLS

The SACO Shockwave V-BRAIN 100 is an innovation in power and data delivery, designed to control SACO's line of versatile Shockwave Spot products, such as the ECKO, ALFA, or DELTAs.

The V-Brain 100 is a powerful remote unit designed for quick and easy installation. This device delivers both power and data, in either DMX or Video formats.

Its modular design allows for even the most complex and unique configurations with the help of different mounting brackets.

DEEP COLOR

SACO's proprietary V-STREAM high-speed, high-resolution video pixel control. Up to 16-bit data sampling for silky smooth dimming, with up to 65,536 shades per color.

BUILT TO LAST REMOTE CONTROL MODULAR

Sturdy construction built for both indoor and outdoor use. Tethered power and data allows for slimmer fixtures and discreet integration. Expand the system by combining series of V-Brains and stacking fixtures to suit. No tools required, self-addressing quick connectivity.

HEAT MANAGEMENT

Design ensures heat dissipation through conduction. Remote power supply lowers heat buildup at fixture level, cooling LEDs and increasing performance.

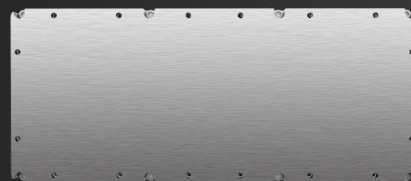


ACTUAL SIZE

SACO

S V-BRAIN 100

FEATURES GUIDE



PHYSICAL

CONSTRUCTION	Machined high grade 6061-T6 aluminum Sturdy stainless steel hardware High-pressure silicone rubber seal (temp range -60°F to 400°F, -50°C to 200°C)
MOUNTING	Array of threaded holes on the backside accommodate #8-32 mechanical screws See accessories guide for mounting options
SURFACE FINISH	Standard brushed anodized finish Custom painted colors also available
WEIGHT	4.5lbs (2.0kg)

THERMAL

OPERATING TEMP	-40°F to 185°F (-40°C to 85°C)
HEAT CONTROL	Use of entire housing's surface area for ideal heat dissipation

ELECTRICAL

INPUT VOLTAGE	100-277 VAC (50-60Hz)
INPUT CURRENT	MAX 0.95 A @ 120 VAC, 0.40 A @ 277 VAC
OUTPUT VOLTAGE	24 VDC (CLASS 2)
OUTPUT POWER	100W Maximum total, 25W Maximum per output

CONNECTORS

POWER INPUT	Panelmount IP69 strain relief cable gland 3-conductor 18 AWG power cable
DATA INPUT	Panelmount IP69 strain relief cable gland 2 x 22 AWG twisted pairs (4-conductors)
FIXTURE OUTPUT	8-pin, panelmount IP67 quick connectors Refer to basic wiring guide for general fixture to V-Brain ratios Consult SACO for optimal system configuration on your project

SHOCKWAVE ACCESSORIES

VIDEO PROCESSORS	Multiple SHOCKWAVE video processing options are available See accessories guide for options.
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ADDITIONAL INFORMATION

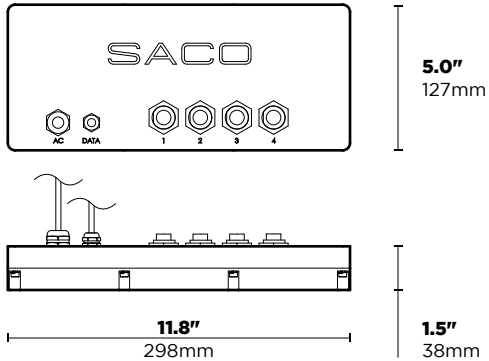
CERTIFICATION	ETL listed as per UL 1598, CSA C22.2 N°250.0 CE IP66, suitable for wet locations
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WARRANTY	5 years
ORIGIN	Designed and made in North America





SPECIFICATIONS GUIDE

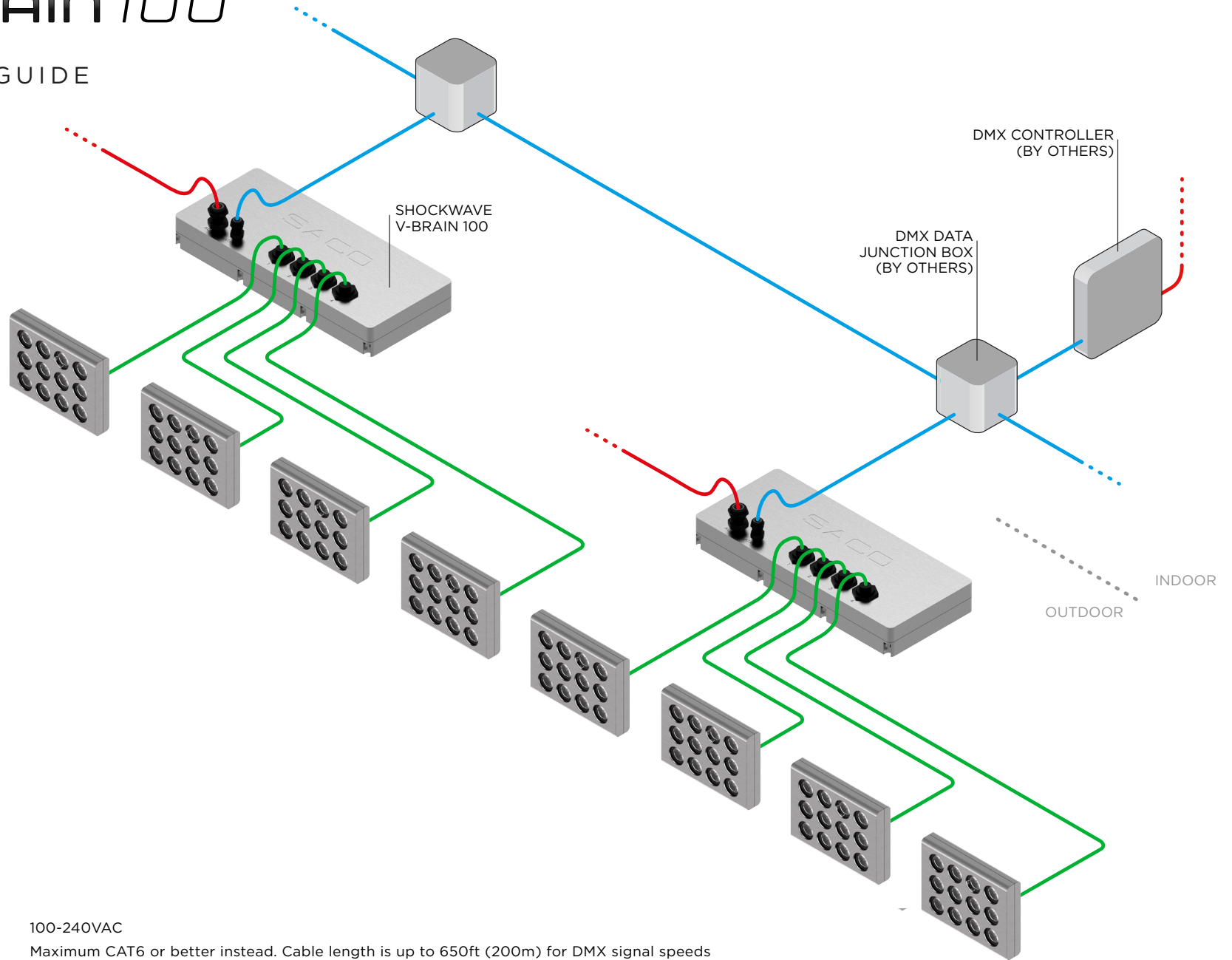


PRODUCT ORDERING CODE

<input type="text"/>	MODEL #
<input type="text"/>	NOMINAL POWER
100	100 Watts ¹
¹ Maximum nominal distribution of power on all outputs. Actual maximum power will depend on the length of each lead cable. Refer to basic wiring guide for maximum cable lengths and consult SACO for optimal system configuration of your project.	
<input type="text"/>	ENVIRONMENT COMPATIBILITY
W	Wet/Outdoor
<input type="text"/>	MAINS VOLTAGE
-U	120-277VAC
<input type="text"/>	POWER INPUT CABLE HARNESS CONNECTOR
G	Cable gland (IP69 strain relief)
<input type="text"/>	POWER INPUT CABLE HARNESS LENGTH
301.2	3-conductor, 4' (1,2m) ²
3___.	3-conductor, 4' (1,2m) ³
² Default option. Has pigtailed ends as standard. Consult SACO for power plugs.	
³ Maximum 3-conductor cable length option is to be confirmed. Consult SACO for special lengths.	
<input type="text"/>	DATA INPUT CABLE HARNESS CONNECTOR
G	Cable gland (IP69 strain relief)
<input type="text"/>	DATA INPUT CABLE HARNESS LENGTH
401.2	4-conductor, 4' (1,2m) ⁴
4___.	4-conductor, custom length (please specify, in meters) ⁵
⁴ Default length option, has pigtailed ends as standard.	
⁵ Maximum 4-conductor video data cable length is 400' (125m). Maximum 4-conductor DMX data cable length is 650' (200m).	
<input type="text"/>	FIXTURE CABLE HARNESS CONNECTORS
Q8	Quick connector (8-pin, panel mount IP67) ⁶
⁶ Make sure connector choice corresponds with that of light fixtures.	
<input type="text"/>	SURFACE FINISH
CLA	Clear Anodized
BKA	Black Anodized
---	Custom, please specify

SHOCKWAVE V-BRAIN 100

DMX WIRING GUIDE



- POWER
- CAT5e/6
- FIXTURE CABLE

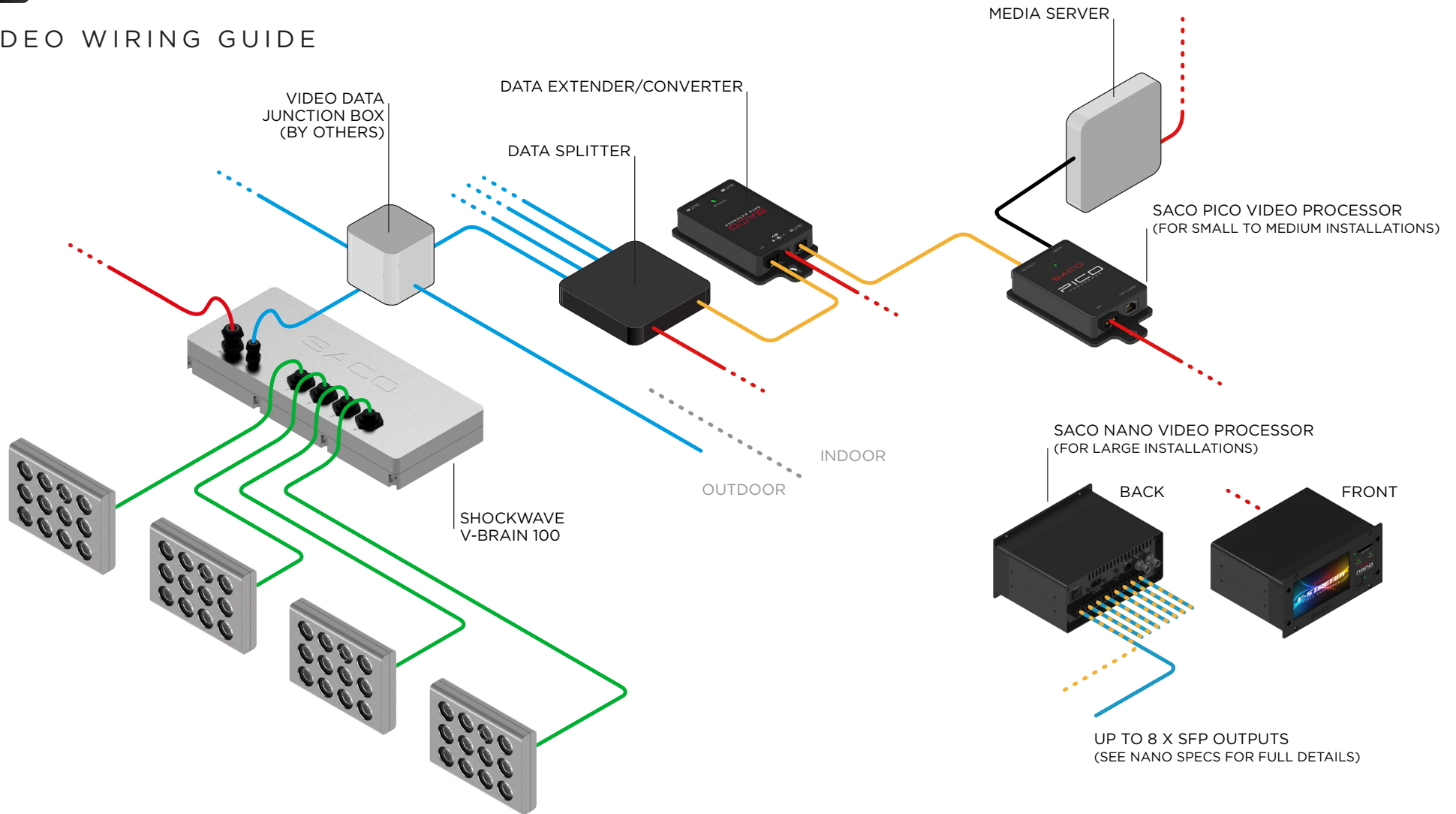
100-240VAC

Maximum CAT6 or better instead. Cable length is up to 650ft (200m) for DMX signal speeds

Maximum fixture cable length to V-Brain is 60ft (18m)

V-BRAIN 100

VIDEO WIRING GUIDE



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

100-240VAC

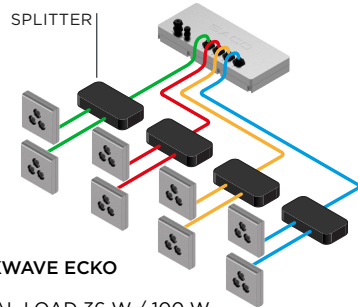
Maximum CAT6 or better instead. Cable length is up to 410ft (125m) for SACO video signal speeds

Maximum OM3 fiber length is up to 2450ft (750m) for SACO video signal speeds

Maximum fixture cable length to V-Brain is 60 ft (18 m)

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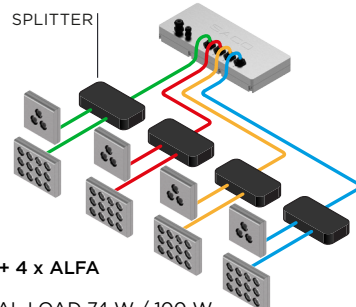
FIXTURE WIRING GUIDE



8 x SHOCKWAVE ECKO

WW : TOTAL LOAD 36 W / 100 W

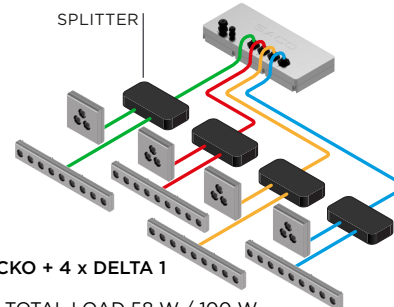
RGB : TOTAL LOAD 48 W / 100 W



4 x ECKO + 4 x ALFA

WW : TOTAL LOAD 74 W / 100 W

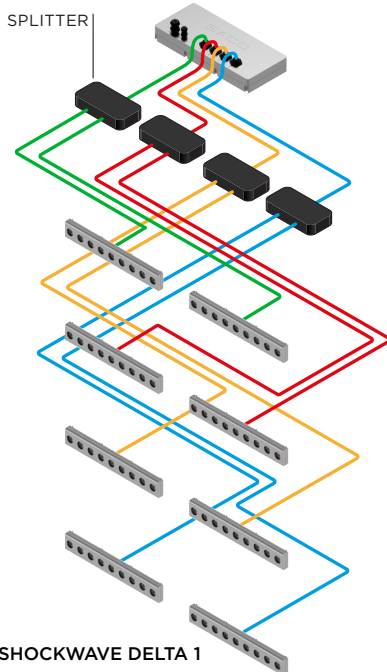
RGB : TOTAL LOAD 88 W / 100 W



4 x ECKO + 4 x DELTA 1

WW : TOTAL LOAD 58 W / 100 W

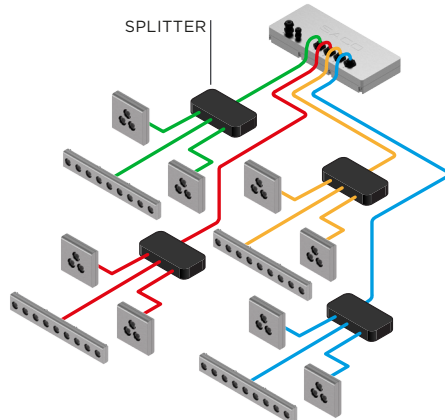
RGB : TOTAL LOAD 69 W / 100 W



8 x SHOCKWAVE DELTA 1

WW : TOTAL LOAD 80 W / 100 W

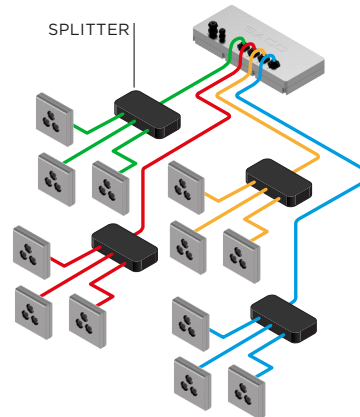
RGB : TOTAL LOAD 90 W / 100 W



8 x ECKO + 4 x DELTA 1

WW : TOTAL LOAD 76 W / 100 W

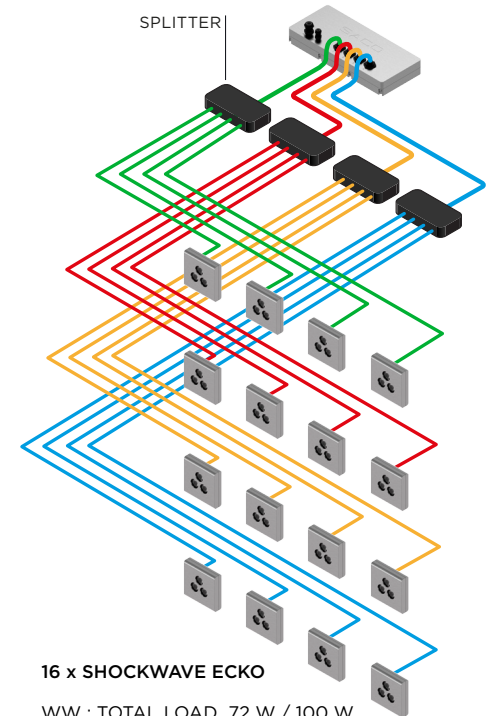
RGB : TOTAL LOAD 93 W / 100 W



12 x SHOCKWAVE ECKO

WW : TOTAL LOAD 54 W / 100 W

RGB : TOTAL LOAD 72 W / 100 W



16 x SHOCKWAVE ECKO

WW : TOTAL LOAD 72 W / 100 W

RGB : TOTAL LOAD 96 W / 100 W