

VADER

SPECIFICATION SHEET



TARGETTI

VADER

The ONE you've been waiting for

Vader is the **All-in-One Outdoor Projector** that offers the features of an entire range in just a single product. It allows to:

- Adjust the beam angle from Spot (22°) to Medium Wide Flood (41°)
- Control three different dimming protocols - DALI / 0-10V / DMX
- Pick the most fitting Color Temperature for the application context through Tunable White source (1800K to 4000K).

The Zoom Optic is adjustable by a simple movement of your hand.

The flexible aiming allows to tilt the head from -20° to +90°.

Vader is suitable for a wide range of installation options through multiple mounting accessories.

Thanks to the smart Control Pod is possible to control up to 64 products together compliant with DALI, 0-10V and DMX Systems.

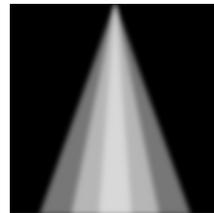


1 All-in-one Fixture

Beam Apertures, Color Temperature and Controls adjustable when the product is already installed



ZOOM OPTIC



22° ↔ 41°



TUNABLE WHITE 1800K - 4000K



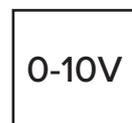
Accessories to control the glare and manage effects



Installation Options for surface, ground, trees, poles.

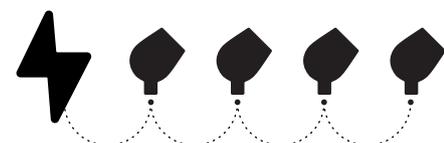
1 CONTROL POD

to manage dimming and color temperature



Remote Driver

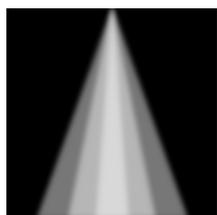
to power up to 8 Fixtures



PRODUCT AIMING

ZOOM

from SP (22°) to MWFL (41°) with indication every 2 degrees and locking screw



22° ←→ 41°

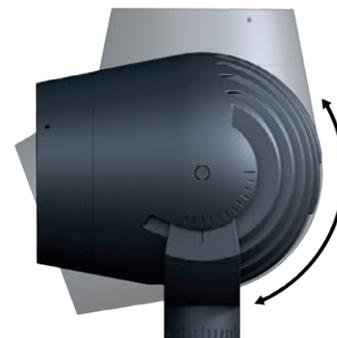


Locking Screw



TILT

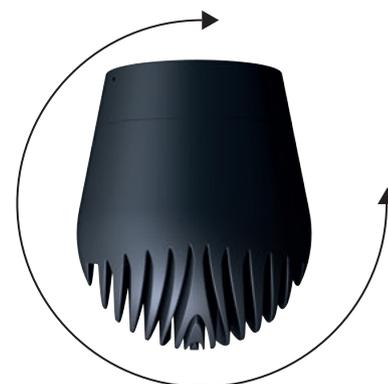
Tilt Rotation on the vertical axis of -20° to +90° with indication every 10 degrees and easy to use locking screw



-20° to +90°

ROTATION

The projector can be easily rotated of 360° on the horizontal plane with indication every 15 degrees and locked into place with locking screws



360°

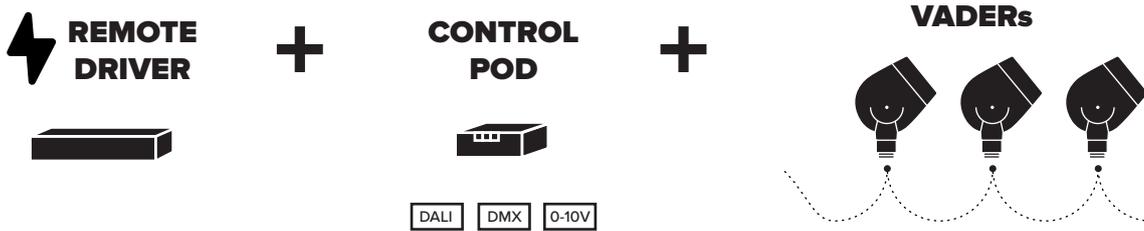
MODULAR CONFIGURATIONS

VADER can be powered up and controlled in series either in single or multiple configurations.

To build your configuration you just need:

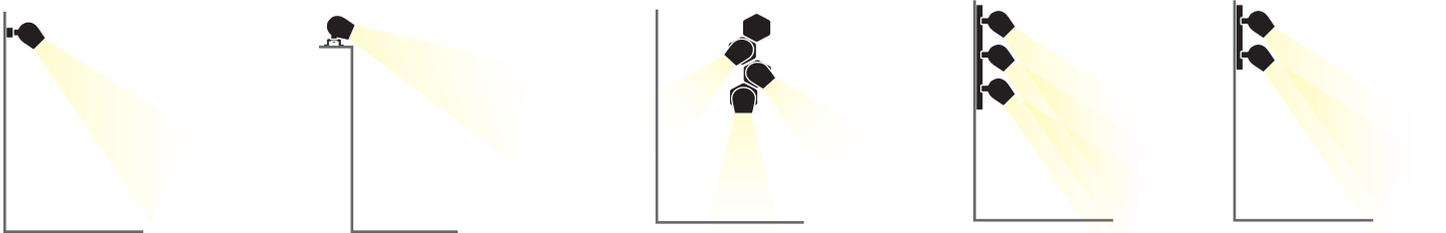
1. Remote driver (available with different powers and IP ratings, to power up to 8 products)
2. Control Pod, for DALI, 0-10V and DMX input signals
3. Up to 8 Vader Projector/s

Check installation diagram at pp. 12-13.

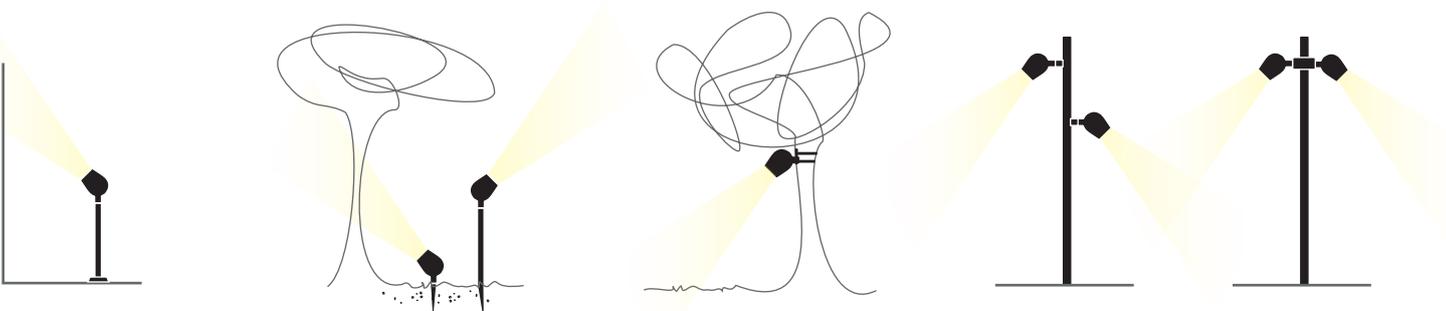


INSTALLATION OPTIONS

VADER offers different installation solutions for any application. The projector has a standard G1/2 compatible with different installation accessories.



Surface



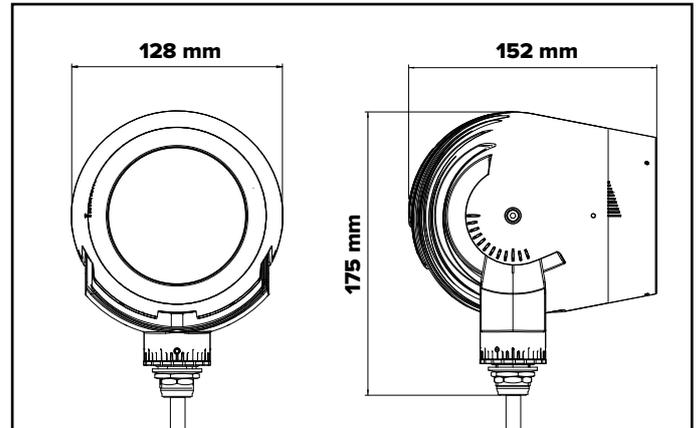
Floor

Earth

Tree

Pole

All-in-One Outdoor Adjustable Projector



CONCEPT

Vader is the **All-in-One Outdoor Projector** that offers the features of an entire range in just a single product. It allows to adjust the beam angle, from 22° to 41°, control multiple dimming protocols and adapt color Temperature through Tunable White source (1800K to 4000K). The Zoom Optic is adjustable by a simple movement of your hand. The flexible aiming allows to tilt the head from -20° to +90°. Vader is suitable for a wide range of installation options through multiple mounting accessories. Thanks to the smart Control Pod is possible to control up to 64 products together compliant with DALI, 0-10V and DMX Systems. Remote Driver to power up 8 light fixtures.

MECHANICAL CHARACTERISTICS

Housing	128mm x 152mm x 175mm
Materials	Die-Cast Aluminum body and mounting bracket painted and treated with Cataphoresis. Extra-clear sealed tempered glass.
Finish	● Ferrite ● Easy Custom Color
Power Connection	48V Fixture suitable for single or multiple modules power up and control. The wiring is up to the installer
Functionality	Each module has a mechanical locking to provide precise aiming. The zoom optic can be easily adjusted from SP to MWFL with degrees indicators every 2°. Fixtures are able to be adjusted in different directions and stay in their position. Adjustable up to -20°+90° on the vertical surface with aim lock set screw with and a free rotation of 360°. It can hold different Optic accessories to manage the beam and control the glare.
Mounting	Joint at the base of the product equipped with hexagonal socket screw for positioning. The product may be installed using our accessories for surface, pole, tree and ground. It is also possible to install the product with any other support with a G ½ shank hole.
Weight	2 kg

ELECTRICAL CHARACTERISTICS

Power Supply	Remote Driver with 220V-240V AC power supply, ordered separately
Fixture Wattage	15W
Voltage	48V DC
Control	DALI / 0-10V / DMX
Max Driver Distance	20 meters
Cable Length	1.5 meters

SOURCE

High-Efficiency TUNABLE WHITE LED. Chip on Board.

CCT	TUNABLE WHITE 1800K - 4000K	CRI	Ra90
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OPTIC

Optical System Equipped with ZOOM Lens

Beam	SP 22°		to	MWFL 41°		
Delivered Lumens	1800K 656lm	2900K 914lm	4000K 1114lm	1800K 650lm	2900K 909lm	4000K 1065lm
Efficacy	48lm/W	70lm/W	80lm/W	48lm/W	69lm/W	76lm/W

CERTIFICATIONS

CE/UL

SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

SPECIFICATION INFORMATION

PRODUCT CODES

1 - FIXTURE CODE

E012 - VADER	ZM - ZOOM 22° - 41°	TUW - TUNABLE WHITE 1800K - 4000K	FE - FERRITE *EASY CUSTOM COLOR ON REQUEST
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ELECTRIC ACCESSORIES

- 1E2493** - LINEAR CONNECTION BOX IP68
- 1E2494** - MULTIPLE CONNECTION BOX IP68

RELATED CODES

2 - CONTROL DIMMING

A035 - CONTROL POD DALI/DMX/0-10V

3 - POWER SUPPLY - 220V-240V AC

- 1T6917EL** - DRIVER IP40 - Max 3 Prod.
- 1T6916EL** - DRIVER IP40 - Max 8 Prod.
- 1E2320** - DRIVER IP67 - Max 4 Prod.
- 1E2321** - DRIVER IP67 - Max 8 Prod.

ACCESSORY CODES

OPTICAL ACCESSORIES

A036 - SNOOT SYM	FE - FERRITE *EASY CUSTOM COLOR ON REQUEST
A037 - SNOOT ASYM	
A038 - SUPER SNOOT	
A039 - BLADE OF LIGHT	

MOUNTING ACCESSORIES

SURFACE

A040 - ROUND BASE	FE - FERRITE *EASY CUSTOM COLOR ON REQUEST
A041 - SURFACE PLATE	
A042 - HEXAGONAL BASE	
A043 - BLIND HEXAGON	
A044 - OMEGA BRACKET	
A045 - MULTIPLE BRACKET 2X	
A046 - MULTIPLE BRACKET 3X	
A047 - SURFACE SPIKE 232	
A048 - SURFACE SPIKE 832	

POLE

A052 - POLE BRACKET Ø60mm 1X	FE - FERRITE *EASY CUSTOM COLOR ON REQUEST
A053 - POLE BRACKET Ø60mm 2X	

TREE

A049 - TREE BRACKET	FE - FERRITE *EASY CUSTOM COLOR ON REQUEST
A023 - TREE STRAP	

GROUND

A050 - EARTH POLE 232mm	FE - FERRITE *EASY CUSTOM COLOR ON REQUEST
A051 - EARTH POLE 832mm	
1E3785 - EARTH SPIKE	

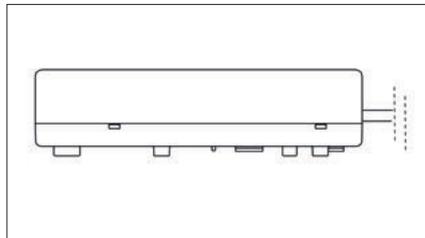
RELATED CODES



A035 - CONTROL POD - 3-In-1 Control System (DALI / DMX / 0-10V input)

Control Pod to manage Tunable White and dimming for DALI, 0-10V and DMX input signals. 70x70xH23mm.

Check installation diagram at pp. 12 - 13.



POWER SUPPLY - 220V-240V AC

MAX Distance of the last product to the Power Supply: 20m

1T6917EL - DRIVER IP40 - Max 3 Prod.

1T6916EL - DRIVER IP40 - Max 8 Prod.

1E2320 - DRIVER IP67 - Max 4 Prod.

1E2321 - DRIVER IP67 - Max 8 Prod.

ELECTRIC ACCESSORIES



1E2493 - LINEAR CONNECTION BOX IP68

Linear connection box IP68.
4 poles max. wire section 2.5mm².
Cable diameter range from 7 to 12mm.



1E2494 - MULTIPLE CONNECTION BOX IP68

Multiple connection box IP68.
1 IN - 3 OUT 4 poles max. wire section 2.5mm².
Cable diameter range from 6 to 12mm.

OPTICAL ACCESSORIES

Optic accessories specifically designed to control the glare according to different needs and contexts of use



A036 - SNOOT SYM - Antiglare Accessory

● FE - Ferrite ☞ Easy Custom Color



A037 - SNOOT ASYM - Antiglare Accessory

● FE - Ferrite ☞ Easy Custom Color



A038 - SUPER SNOOT

● FE - Ferrite ☞ Easy Custom Color



A039 - BLADE OF LIGHT

● FE - Ferrite ☞ Easy Custom Color

INSTALLATION ACCESSORIES

SURFACE MOUNTING



A042 - HEXAGONAL BASE

Hexagonal base for surface mounting to dispose clusters of Light Fixtures side by side and hide the cables passage. Powder coated Die-Cast Aluminium Body and Stainless Steel Bracket.

- FE - Ferrite
- ◌ Easy Custom Color



A043 - BLIND HEXAGON

Hexagonal base for surface mounting aimed to hide the cable passage and create intervals between Light Fixtures. Powder coated Die-Cast Aluminium Body and Stainless Steel Bracket.

- FE - Ferrite
- ◌ Easy Custom Color



A040 - ROUND BASE

Cylindrical Base for surface mounting with cable passage either from the side or from the back. Powder coated Aluminium and Stainless Steel Bracket.

- FE - Ferrite
- ◌ Easy Custom Color



A041 - PLATE FOR ROUND BASE A040

Round Plate Base for surface mounting to be mounted with A040. Aimed when it is necessary to have a larger distance between the mounting screws. Powder coated Stainless Steel.

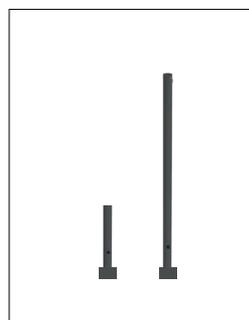
- FE - Ferrite
- ◌ Easy Custom Color



A044 - OMEGA BRACKET

Surface mounting bracket. Powder coated Die-Cast Stainless Steel.

- FE - Ferrite
- ◌ Easy Custom Color



A047 - SHORT PEG 232mm

A048 - LONG PEG 832mm

Short peg with base for surface mounting. Powder coated Stainless Steel.

- FE - Ferrite
- ◌ Easy Custom Color

INSTALLATION ACCESSORIES

SURFACE MOUNTING



A045 - Multiple Surface BASE / 2x

Multiple base (Up to 2 fixtures) for surface mounting. The case can contain cable passage and Multiple Connection Box 1E2494. Powder coated Stainless Steel.

● FE - Ferrite ◉ Easy Custom Color

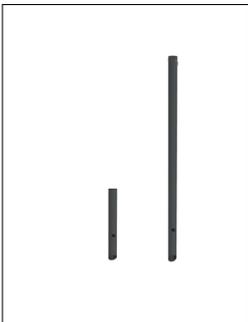


A046 - Multiple Surface BASE / 3x

Multiple base (Up to 3 fixtures) for surface mounting. The case can contain cable passage and Multiple Connection Box 1E2494. Powder coated Stainless Steel.

● FE - Ferrite ◉ Easy Custom Color

GROUND MOUNTING

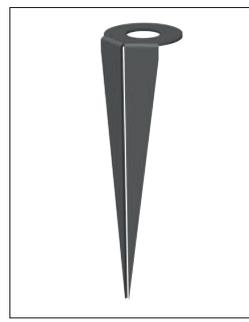


A050 - EARTH POLE SPIKE 232mm

A051 - EARTH POLE SPIKE 832mm

Powder coated Stainless Steel.

● FE - Ferrite ◉ Easy Custom Color



1E3785 - EARTH SPIKE - GROUND INSTALLATION

Earth spike. Powder coated stainless steel.

● FE - Ferrite ◉ Easy Custom Color

INSTALLATION ACCESSORIES

POLE MOUNTING



A052 - POLE BRACKET Ø60mm 1X

Pole bracket. Anodised and powder coated aluminium. Pole Ø 60mm (+/-2mm).

● FE - Ferrite ☞ Easy Custom Color

A053 - POLE BRACKET Ø60mm 2X

Pole bracket. Anodised and powder coated aluminium. Pole Ø 60mm (+/-2mm).

● FE - Ferrite ☞ Easy Custom Color

TREE MOUNTING



A049 - TREE BRACKET

Tree mounted bracket. To be mounted with two tree straps (A023). Powder coated stainless steel.

● FE - Ferrite ☞ Easy Custom Color

A023 - TREE STRAP

Black Nylon Tree Strap to be completed with the code A049 (Tree Bracket). Two straps are needed for this use.



PHOTOMETRY

The following photometries refer to the code **E012** considering the zoom optic beam aperture and the Tunable White range. No accessory required.

SPOT 1800K

	1800K	H(m)	D(m)	Emax(lx)			
	Ra90		22°				
	Fixture Power	14W	1	0.39	3038		
	Source Flux	1032lm	2	0.78	760		
	Fixture Flux	656lm	3	1.18	338		
	Efficacy	48lm/W	4	1.57	190		
	A7865	I _{max} =2946cd/klm	I _{max}	3038cd	5	1.96	122

MWFL 1800K

	4000K	H(m)	D(m)	Emax(lx)			
	Ra90		41°				
	Fixture Power	14W	1	0.74	1928		
	Source Flux	1675lm	2	1.49	482		
	Fixture Flux	1065lm	3	2.23	214		
	Efficacy	77lm/W	4	2.97	120		
	A7867	I _{max} =1151cd/klm	I _{max}	1928cd	5	3.72	77

SPOT 2900K

	2900K	H(m)	D(m)	Emax(lx)			
	Ra90		22°				
	Fixture Power	13W	1	0.39	4237		
	Source Flux	1427lm	2	0.78	1059		
	Fixture Flux	914lm	3	1.18	471		
	Efficacy	70lm/W	4	1.57	265		
	A7866	I _{max} =2970cd/klm	I _{max}	4237cd	5	1.96	169

MWFL 2900K

	2900K	H(m)	D(m)	Emax(lx)			
	Ra90		41°				
	Fixture Power	13W	1	0.74	1644		
	Source Flux	1427lm	2	1.49	411		
	Fixture Flux	909lm	3	2.23	183		
	Efficacy	69lm/W	4	2.97	103		
	A7869	I _{max} =1153cd/klm	I _{max}	1644cd	5	3.72	66

SPOT 4000K

	1800K	H(m)	D(m)	Emax(lx)			
	Ra90		41°				
	Fixture Power	14W	1	0.74	1176		
	Source Flux	1032lm	2	1.49	294		
	Fixture Flux	650lm	3	2.23	131		
	Efficacy	48lm/W	4	2.97	73		
	A7868	I _{max} =1140cd/klm	I _{max}	1176cd	5	3.72	47

MWFL 4000K

	4000K	H(m)	D(m)	Emax(lx)			
	Ra90		22°				
	Fixture Power	14W	1	0.39	4991		
	Source Flux	1675lm	2	0.78	1248		
	Fixture Flux	1077lm	3	1.18	555		
	Efficacy	78lm/W	4	1.57	312		
	A7864	I _{max} =2980cd/klm	I _{max}	4991cd	5	1.96	200

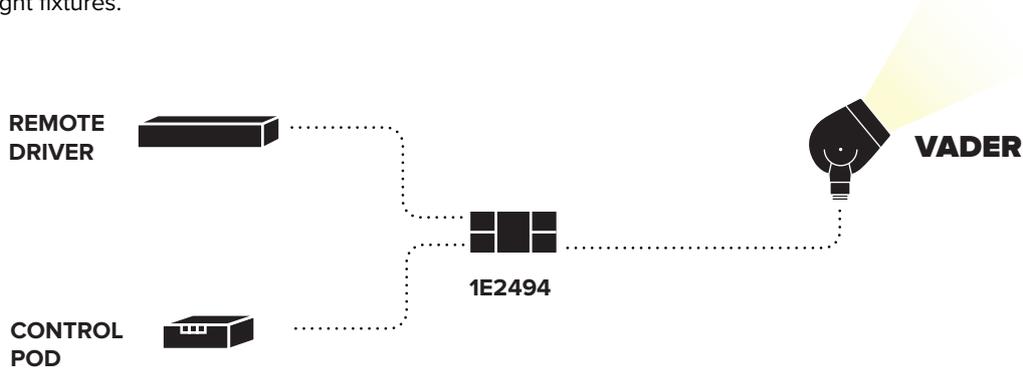
CONTROL POD CONFIGURATIONS

The Control Pod takes in input DALI, DMX or 0-10V and allows to control the light fixtures either individually or with shared control. It can manage up to 64 light fixture, controlling dimming and color temperature. The multiple setups are described in detail in the instruction manual.

	SHARED CONTROL	INDIVIDUAL CONTROL
DALI	•	•
DMX	•	•
0-10V	•	

INSTALLATION DIAGRAMS

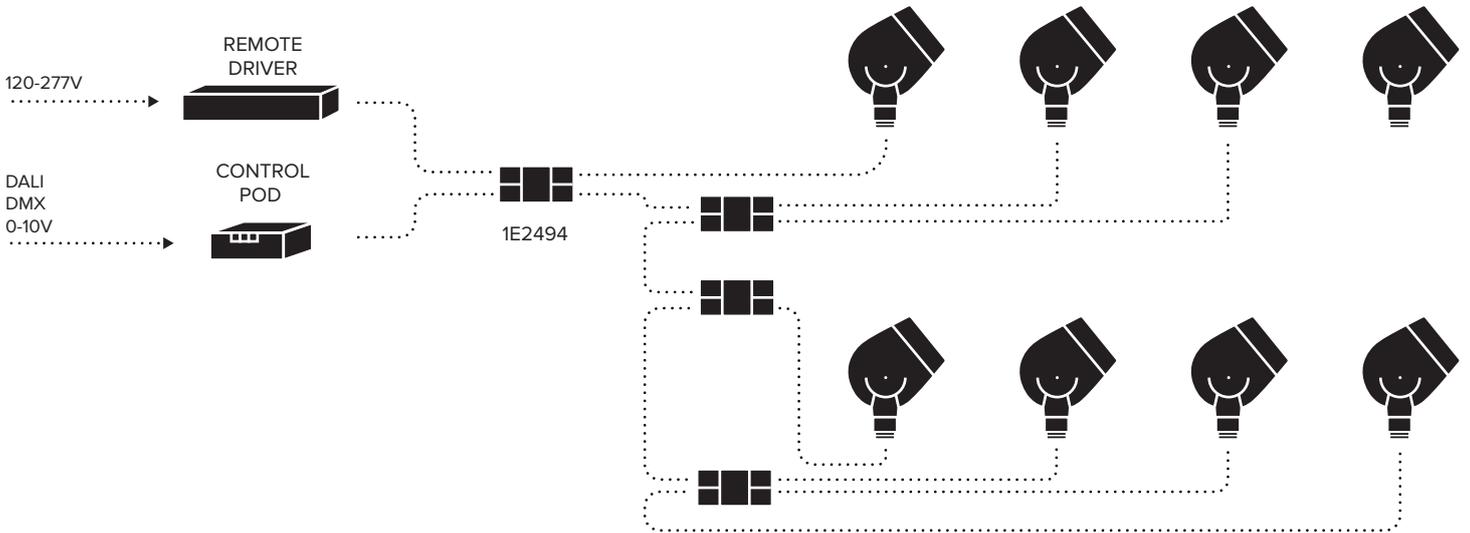
To power up and control one or multiple Vader(s) you just need a Power Supply (Remote Control) and the Control Pod. Thanks to the MULTIPLE CONNECTION BOX IP68 (1E2494) it is possible to combine both power and signals and easily add multiple light fixtures.



1x / 2x CONFIGURATION



3x to 8x CONFIGURATION



8+ CONFIGURATION

