



PIXREAL
ENGINEERED FOR LONGEVITY

SPARK
PRODUCT BROCHURE



SPARK Series

A creative led strip, cross-over between video and lighting

Indoor | Outdoor | Creative Display



SPARK: Boundary-Breaking LED Video Strip

Most LED strips are lighting tools dressed up as video. SPARK is neither. It is a purpose-built LED video strip that operates exactly at the intersection of video content and dynamic light — with the pixel density, brightness, and processing power to carry both roles without compromise.

Available in standard lengths of 50, 100, and 200cm, SPARK panels snap together into runs of up to 60 metres on a single power and data connection. Every pixel is freely mappable, which means any video content can be distributed across structures, trusses, ceilings, and interiors in any configuration the designer imagines.

With 15,000 nits of calibrated output, the SPARK delivers broadcast-grade image quality under stage lighting, festival sunlight, and camera scrutiny.

The SPARK NERO runs at 8,000 nits and doubles the contrast ratio, purpose-built for environments where deep blacks and visual punch are non-negotiable. IP65 front and rear means both work outdoors without a second thought. NovaStar and Brompton compatibility means either drops into existing workflows without dedicated processing hardware.

SPARK is where lighting designers and video engineers meet. It gives both the control they expect and the visual quality their work demands.



Key features

SPARK is built around one principle: remove every obstacle between the designer's idea and the finished installation. A 60-metre single-cable run, freely mappable pixels, full IP65 protection, and a modular mounting system gives lighting, set designers and video engineers the tools to build any shape, in any environment, without compromise. Native NovaStar and Brompton compatibility means it connects directly to the platforms your operation already runs.

60 meter on a single-Cable run

Up to 60 metres on a single power and data connection. No injection points.

No extra cable runs through structure.

Modular construction

Eight coupler types cover every rigging scenario. SPARK strips flex concave to convex. Any shape is buildable.

Freely mappable pixels

Every LED is independently addressable. Video content maps across any structural configuration — straight lines, curves, cubes, angled arrays. The design intent drives the layout.

Fully IP65

SPARK runs outdoors without enclosures, through festival weather and open-air stages, and returns to the warehouse ready for the next show.

15.000 / 8.000 Nits, Two LED Options

White LED reaches 15,000 calibrated nits for outdoor stages and mixed-light environments. Black LED delivers 8,000 nits with an 8,000:1 contrast ratio for theatre, interiors, and controlled-light applications.

Pixel density

Six rows of 60 pixels across every 50 cm of strip deliver the pixel density that makes SPARK perform as a precision image surface.

Two LED variants. One modular system.

The right output for every environment. The SPARK delivers maximum brightness for outdoor stages, festivals, and broadcast. The SPARK NERO delivers maximum contrast for theatre, interiors, and controlled-light applications. Same system, same accessories, different performance profile.



SPARK

- **15,000 calibrated nits**
- SMD2727 White LED
- Contrast ratio 4,000:1
- Optimised for outdoor stages, festivals, and broadcast environments



SPARK NERO

- **8,000 calibrated nits**
- SMD2727 Black LED
- Contrast ratio 8,000:1
- Dissapers in environment
- Optimised for theatre, interior installations, and controlled-light environments

Complete line of tool free Accessories

The SPARK line extends beyond the panel. A complete set of rigging accessories lets crews build the shapes the design calls for: squares, V-configurations, horizontal or vertical runs,

Everything connects through the integrated slide profile. Couplers and accessories lock into position without screws or additional hardware, cutting assembly time and keeping the rig clean and secure.



*No tools needed
SPARK uses
Click Connections*



SPARK

The SPARK White LED is Pixreal's high-output variant, built for environments where ambient light is a problem to be solved.

With 15,000 calibrated nits and SMD2727 White LED configuration, it holds full brightness and accurate colour under stage lighting, direct sunlight, and the unforgiving conditions of outdoor festivals. A contrast ratio of 4,000:1 keeps image detail readable across the entire 160° viewing angle, horizontal and vertical. A 7,680Hz

refresh rate and 15-bit greyscale ensure clean, flicker-free output at any frame rate. Panels curve from concave to convex within a 90° range in either direction, and up to 60 metres can be chained on a single power and data connection. IP65 rated front and rear means no enclosures, no workarounds, and no compromises based on weather or location. Compatible with NovaStar and Brompton processing platforms without dedicated hardware. Available in 50, 100, and 200cm panel lengths.

7.680 HZ REFRESH RATE	160° VIEWING ANGLE	15 bit GREYSCALE DEPTH	15.000 NITS
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Applications

LIVE EVENTS & TOURING

FIXED INSTALLATION

BROADCAST STUDIO

CREATIVE & EVENT DESIGN

Specification	SPARK 50 WHITE	SPARK 100 WHITE	SPARK 200 WHITE
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DIFFERS PER MODEL

Panel dimension	50 × 5.9 × 7.2 cm	100 × 5.9 × 7.2 cm	200 × 5.9 × 7.2 cm
Fixture resolution (H x V)	6 × 60	6 × 120	6 × 240
Weight	1.8 kg	2.9 kg	5.1 kg
Power consumption max / avg	35W / 18W	65W / 32W	130W / 65W

IDENTICAL ACROSS ALL MODELS

Pixel pitch	8.33 mm
Frame material	Aluminum profile
Scan ratio	1/2
LED configuration	SMD2727
Max brightness (calibrated)	15,000 nits
Contrast ratio	≥4,000:1
Viewing angle (H/V)	160° / 160°
Refresh rate	7,680 Hz
Gray scale	15-bit
Curving (concave / convex)	Concave 90° ~ Convex 90°
Max frame rate	120 Hz
Operating environment	-20°C ~ +40°C / 10% ~ 90% RH
Processing platform	NovaStar / Brompton
IP rating	IP65
Certifications	CE, ETL, FCC, RoHS, WEEE



SPARK NERO

The SPARK NERO is Pixreal's high-contrast variant, engineered for environments where darkness is as important as light.

Built on the same modular platform as the regular SPARK, it uses SMD2727 Black LED configuration to deliver a contrast ratio of 8,000:1 at 8,000 calibrated nits. Where the White LED version competes with ambient light, the Black LED version works with controlled light to produce the kind of depth that white-face

LEDs cannot match. Deep blacks hold true. Colours stay accurate. The image reads exactly as designed. A 7,680Hz refresh rate and 15-bit greyscale carry that precision through to the output. The same 60-metre single-cable run capability, the same concave-to-convex curving range, and the same full accessory ecosystem apply. IP65 rated front and rear. Compatible with NovaStar and Brompton processing platforms without dedicated hardware. Available in 50, 100, and 200cm panel lengths.

7.680 HZ REFRESH RATE	160° VIEWING ANGLE	15 bit GREYSCALE DEPTH	8000 NITS
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Applications			
LIVE EVENTS & TOURING	FIXED INSTALLATION	BROADCAST STUDIO	CREATIVE & EVENT DESIGN

Specification	SPARK 50 NERO	SPARK 100 NERO	SPARK 200 NERO
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DIFFERS PER MODEL

Panel dimension	50 × 5.9 × 7.2 cm	100 × 5.9 × 7.2 cm	200 × 5.9 × 7.2 cm
Fixture resolution (H × V)	6 × 60	6 × 120	6 × 240
Weight	1.8 kg	2.9 kg	5.1 kg
Power consumption max / avg	35W / 18W	65W / 32W	130W / 65W

IDENTICAL ACROSS ALL MODELS

Pixel pitch	8.33 mm
Frame material	Aluminum profile
Scan ratio	1/2
LED configuration	SMD2727 Black
Max brightness (calibrated)	8,000 nits
Contrast ratio	≥8,000:1
Viewing angle (H/V)	160° / 160°
Refresh rate	7,680 Hz
Gray scale	15-bit
Curving (concave / convex)	Concave 90° ~ Convex 90°
Max frame rate	120 Hz
Operating environment	-20°C ~ +40°C / 10% ~ 90% RH
Processing platform	NovaStar / Brompton
IP rating	IP65
Certifications	CE, ETL, FCC, RoHS, WEEE



PIXREAL

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The finishing **Hardware.**

Every SPARK installation is only as strong as the components behind it. This complete range of mounting hardware, cabling, and diffusers gives you full control over how the system goes up, connects, and performs... Whatever the configuration demands.

SPARK ACCESSORIES

Basic Connection Accessories

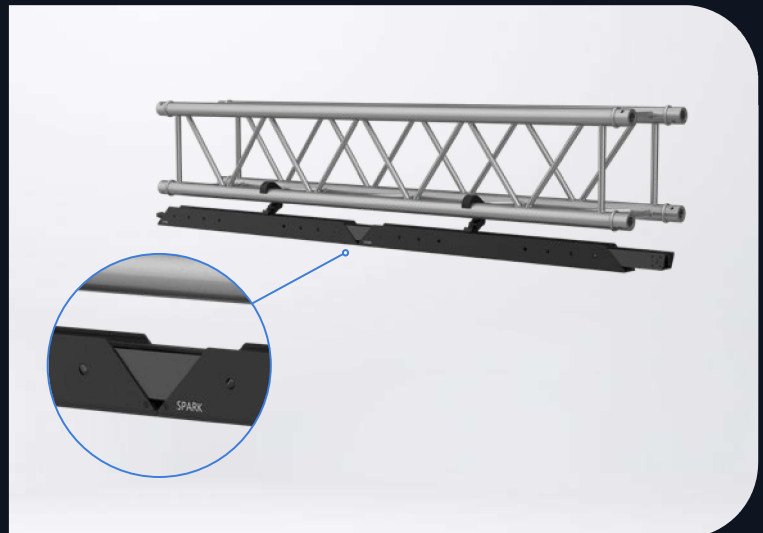
The integrated slide profile accepts the full mounting line without screws or loose hardware. Couplers, corner fittings, and wall mounts lock into place on site, fast to build, safe to fly, ready for any configuration.

Straight Coupler

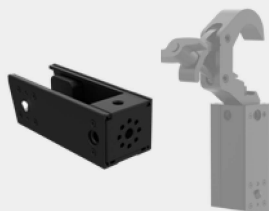


Productcode: PSA-SC

Width	254 mm
Depth	54 mm
Height	47 mm
Weight	0.46 kg
Material	Black Anodized Aluminium



Vertical End Connector



Productcode: PSA-VEC

Width	138 mm
Depth	54 mm
Height	47 mm
Weight	0.38 kg
Material	Black Anodized Aluminium

The vertical end connector is supplied without a connecting piece such as an eye-nut, clamp, or truss half-coupler. This must be ordered separately.



Available connections:

Eye-nut



Quick Release Coupler



Quick Coupler

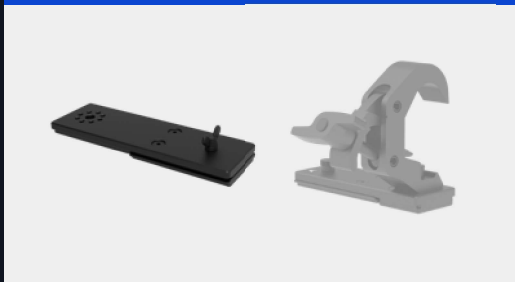


Truss halfcoupler



Basic Connection Accessories

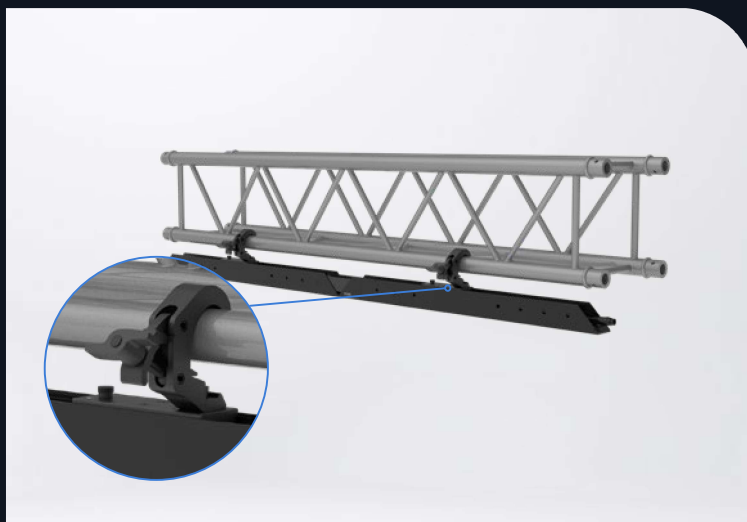
Truss Connector



Productcode: PSA-TC

Width	170 mm
Depth	54 mm
Height	12 mm
Weight	0.27 kg
Material	Black Anodized Aluminium

The truss connector is supplied without a connecting piece such as an eye-nut, clamp, or truss half-coupler. This must be ordered separately.



Available connections:

Eye-nut



Quick Release Coupler



Quick Coupler



Truss halfcoupler



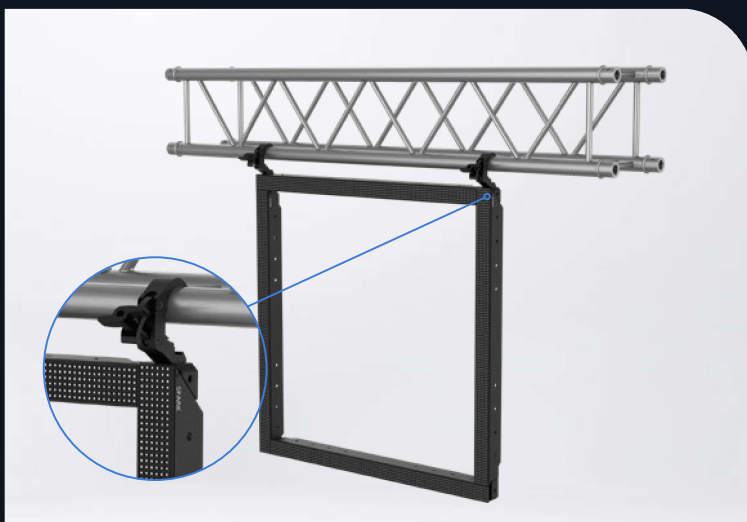
Square Connector



Productcode: PSA-SC

Width	182 mm
Depth	124 mm
Height	47 mm
Weight	0.9 kg
Material	Black Anodized Aluminium

The square connector is supplied without a connecting piece such as an eye-nut, clamp, or truss half-coupler. This must be ordered separately.



Available connections:

Eye-nut



Quick Release Coupler



Quick Coupler



Truss halfcoupler



Basic Connection Accessories

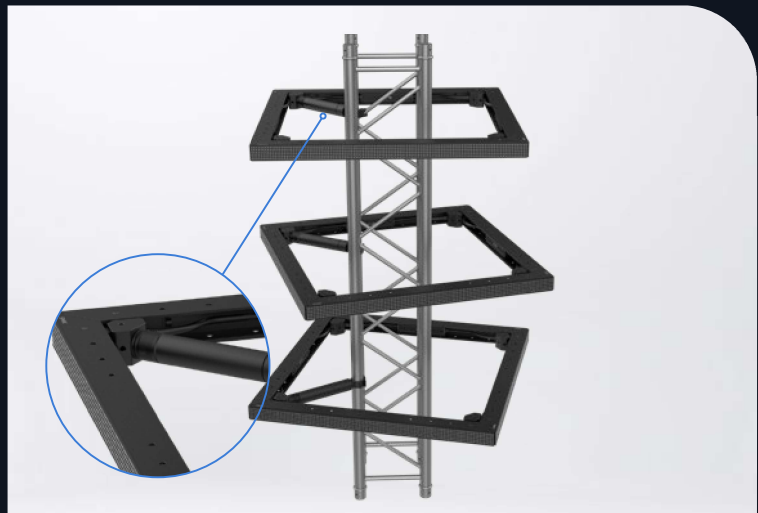
Outer Square Connector



Productcode: PSA-OSC

Width	117 mm
Depth	117 mm
Height	47 mm
Weight	0,96 kg
Material	Black Anodized Aluminium

The outer square truss connector is supplied without a connecting piece such as an eye-nut, clamp, or truss half-coupler. This must be ordered separately.



Available connections:

Tube with Quick Release Coupler



Quick Release Coupler



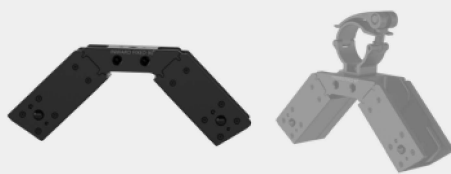
Quick Coupler



Truss halfcoupler



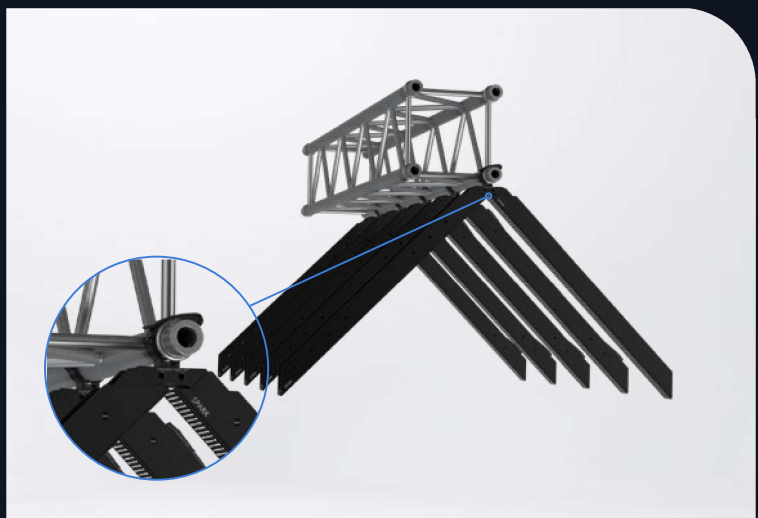
Inner Square Connector



Productcode: PSA-ISC

Width	265 mm
Depth	103 mm
Height	47 mm
Weight	0,75 kg
Material	Black Anodized Aluminium

The inner truss connector is supplied without a connecting piece such as an eye-nut, clamp, or truss half-coupler. This must be ordered separately.



Available connections:

Eye-nut



Quick Release Coupler



Quick Coupler



Truss halfcoupler



Basic Connection Accessories

Angle Connector

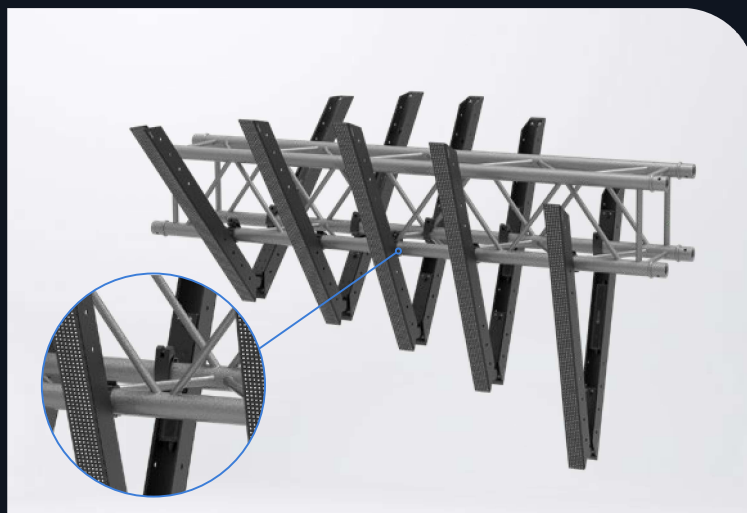


Productcode: PSA-AC

Width	323 mm*
Depth	54 mm
Height	12 mm
Weight	0,58 kg
Material	Black Anodized Aluminium

The multi angle connector is supplied without a connecting piece such as an eye-nut, clamp, or truss half-coupler. This must be ordered separately.

* Measured flat



Available connections:

Tube with Quick Release Coupler



Quick Release Coupler



Quick Coupler



Truss halfcoupler



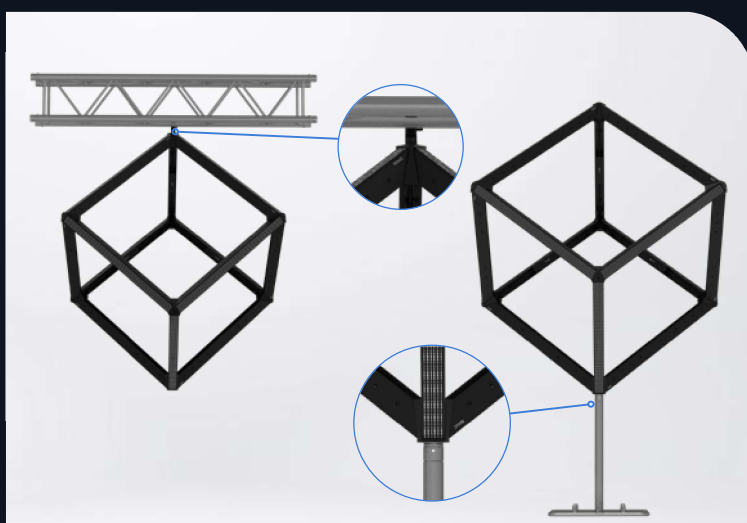
Outer Square Connector



Productcode: PSA-OSC

Width	222 mm
Depth	222 mm
Height	188 mm
Weight	1,4 kg
Material	Black Anodized Aluminium

The outer square connector is supplied without a connecting piece such as an eye-nut, clamp, or truss half-coupler. This must be ordered separately.



Available connections:

Eye-nut



Quick Release Coupler



Quick Coupler



Truss halfcoupler





SPARK

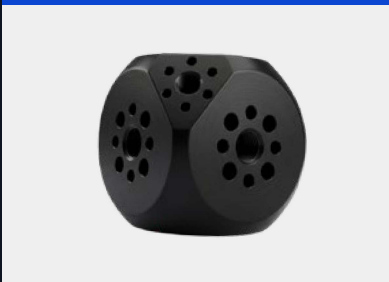
A close-up photograph showing a person's hand in a black sleeve sliding a dark blue SPARK strip into a corner connector. The strip has a grid of small white square holes. The connector is a dark metal block with the word 'SPARK' engraved vertically. The background is dark and out of focus.

Multi Connector Accessories.

Some installations demand more than a straight run. The Multi Connector is a 60 x 60 x 60 mm corner block that joins SPARK strips at precise angles, enabling T, L, X, Y, and cubic configurations without custom fabrication. Attach the Multi Frame Connector in any orientation to the Multi Connector and slide the SPARK directly onto it, or use the truss connector to build 90-degree configurations.

Multi Connector Accessories

Multi Connector



Productcode: PSA-MC

Width	60 mm
Depth	60 mm
Height	60 mm
Weight	0,46 kg
Material	Black Anodized Aluminium

Multi Frame Connector



Productcode: PSA-MFC

Width	147 mm
Depth	54 mm
Height	47 mm
Weight	0,36 kg
Material	Black Anodized Aluminium

Truss Connector



Productcode: PSA-TC

Width	170 mm
Depth	54 mm
Height	12 mm
Weight	0,27 kg
Material	Black Anodized Aluminium

Configuration Examples

The Multi Connector supports L, T, X, and X up/down frame connections, with 45-degree rotation on each port for complete creative freedom in three dimensions.



SPARK in combination with the Multi Connector, and Multi Frame Connector.



Combination of the Multi Connector and Truss Connector.



Diffuser & Cables

Some installations demand more than a straight run. The Multi Connector is a 60 x 60 x 60 mm corner block that joins SPARK strips at precise angles, enabling T, L, X, Y, and cubic configurations without custom fabrication. Attach the Multi Frame Connector in any orientation to the Multi Connector and slide the SPARK directly onto it, or use the truss connector to build 90-degree configurations.

Diffusers

Diffuser for SPARK



Available in opal white and matte black, SPARK diffuser covers distribute light evenly across the full strip length, eliminating glare and hard shadows. The right choice for accent lighting, architectural installations, and set designs where the source should disappear into the space.

Both covers fit tool-free into the integrated slide profile and are interchangeable in the field.

Productcode	Description
PSA-RSD-WHITE	Round shaped diffuser White
PSA-RSD-BLACK	Round shaped diffuser Black
PSA-SSD-WHITE	Square shaped diffuser Black
PSA-SSD-BLACK	Square shaped diffuser Black

Cables

Cables for SPARK



SPARK runs on a single-cable infrastructure. The Power & Data Split combines a PowerTrue 1 connection and a data feed into one combined cable, delivering both power and signal to the first fixture in a run. From there, a range of combi cables in multiple lengths carry power and data between fixtures, keeping the rig clean and the signal chain uninterrupted across runs of up to 60 metres from a single source.

Productcode	Description
PSA-CAB-SPLIT0.5	Power Data Splitter 0.5 m
PSA-CAB-PD5	Power Data 2in1 5 meter
PSA-CAB-PD10	Power Data 2in1 10 meter
PSA-CAB-PD15	Power Data 2in1 15 meter

SUSTAINABILITY

Built to last. Designed to leave less behind.

Sustainability in professional LED is not a badge. It is an engineering decision made thousands of times before a panel ever ships. At Pixreal, that commitment runs through the entire chain: from how we design and manufacture, to how we pack, ship, and support what we sell.

Production-ready from day one

Every Pixreal order ships complete. Panels, fixtures, rigging, flightcases, and accessories leave our facility packed and production-ready, eliminating the waste that comes from redundant packaging, unnecessary return shipments, and last-minute logistics corrections. Less handling. Less material. Less carbon.

Longevity is the most sustainable choice

A product that lasts twice as long needs to be replaced half as often. Pixreal's modular architecture and field-repairable design are not just a TCO argument. They are an e-waste argument. Every component that can be repaired in the field is a component that does not become landfill prematurely. Designed for Longevity is our sustainability strategy, built into the product itself.

Lower operational costs, lower footprint

Energy consumption and heat output are direct operational costs for rental companies, studios, and fixed installations. Pixreal panels are engineered for efficiency: lower energy draw, less heat, less demand on the cooling infrastructure around them. (reducing energy consumption by 30% to 50% compared to industry standards.)

For corporate clients and broadcasters working toward ESG targets, this is a measurable, reportable advantage.

Built clean, certified to prove it

Pixreal products meet RoHS and CE standards as a baseline, not an afterthought.

We build without hazardous materials and hold our supply chain to the same standard. For European and international buyers under procurement compliance requirements, that is not a detail. It is a prerequisite.