

PROJECT	FIRM	ORDER #	TYPE	QTY
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**PL-PIX 15 is a direct-view pixel luminaire for creative urban concepts — media façades, low-density video displays and environmental graphics. The pixels can be arranged in any formation, enabling flexible, close integration with architecture.**

Supplied as a pixel string (100 mm pitch) or as a ready-made pixel mesh (1 m × 1 m or 2.3 m × 2 m), each RGBW dot is individually addressable over DMX via a UCS512CBL driver IC at 1 W per pixel from 12 V DC. The fully-potted polycarbonate housing (grey RAL 9006) is IP67 for outdoor use, with multiple diffuser options and selectable grid pitch to set the display resolution.

## Features

- Direct-view, individually addressable RGBW pixels over DMX (UCS512CBL IC).
- Use as a pixel string or as a ready-made pixel grid / mesh — same product.
- Fully potted with imported glue; IP67 for outdoor use.
- Polycarbonate housing, powder-coat grey RAL 9006.
- Multiple diffuser options for different output requirements.
- Selectable pitch distance to adjust grid resolution.

## At a glance

<p><b>⚡ Power</b> 1 W/pixel · 12 V DC</p>	<p><b>◆ Protection</b> IP67 · IK06</p>	<p><b>☀ Beam</b> 110° beam</p>	<p><b>🌡 Temperature</b> -30 °C to +60 °C</p>	<p><b>◆ Housing / Cert.</b> Polycarbonate · RAL 9006 CE compliant</p>	<p><b>★ Warranty</b> 5 years, limited</p>
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## Variant matrix

Available formats (RGBW, per pixel).

PL-PIX-15-*	Format	Size / pitch	LED / pixel	Control	Finish	Beam angles
A	Pixel string	100 mm pitch	2	DMX	RGBW 3000 K	10°-90°
B	Pixel mesh	1 m × 1 m	2	DMX	RGBW 3000 K	10°-90°
C	Pixel mesh	2.3 m × 2 m	2	DMX	RGBW 3000 K	10°-90°

## Specifications

<b>Series</b>	Pixel Series — pixel mesh / string
<b>Product code</b>	PL-PIX-15-* (see Configure your product on page 4)
<b>Formats</b>	Pixel string (100 mm pitch) · Pixel mesh 1 m × 1 m · 2.3 m × 2 m
<b>Colour</b>	RGBW (3000 K · CRI 80)
<b>Driver IC</b>	UCS512CBL (DMX)
<b>LEDs per pixel</b>	2
<b>Power per pixel</b>	1 W
<b>Operating voltage</b>	12 V DC
<b>Control protocol</b>	DMX (per-pixel addressable)
<b>Beam angle</b>	110°
<b>Pixel pitch</b>	100 mm (string) · selectable in mesh
<b>Diffuser</b>	Multiple diffuser options
<b>Housing</b>	Polycarbonate
<b>Finish</b>	Powder-coat grey (RAL 9006)
<b>IP rating</b>	IP67
<b>IK rating</b>	IK06
<b>Operating temperature</b>	-30 °C to +60 °C
<b>LED lifetime</b>	50,000 hours
<b>Connection</b>	Anti-pull connectorless · daisy-chain
<b>Protection</b>	Fully potted (imported glue) · outdoor-rated
<b>Compliance</b>	CE
<b>Warranty</b>	5 years, limited

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## Dimensions

### Formats & pitch

Pixel string at 100 mm pitch, or a ready-made pixel mesh in 1 m × 1 m or 2.3 m × 2 m panels. Grid pitch is selectable to set the display resolution.

### Build & finish

Polycarbonate dots, fully potted with imported glue. Powder-coat grey (RAL 9006). Multiple diffuser options. Flexible string allows free-form layouts.

## Installation

### Mounting

- Lay out the string or fix the mesh panels in the required formation; the flexible string and connectorless joints allow free-form façade and grid layouts.
- Anti-pull connectorless joints clip together for fast assembly and service.

### Electrical & control

- Power from a 12 V DC supply sized for the total pixel count (1 W per pixel, plus headroom).
- Each pixel is individually addressable over DMX (UCS512CBL); daisy-chain and inject power on long runs.
- IP67 — fully potted; suitable for permanent outdoor installation.

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## Configure your product

Build your model code in the form PL-PIX-15-<type>, selecting the format below.

#	Field / option codes
1	Product type: A Pixel string (100 mm pitch) · B Pixel mesh 1 m × 1 m · C Pixel mesh 2.3 m × 2 m · Z custom
—	Diffuser & pitch: multiple diffuser options; grid pitch selectable to set resolution (specify on order).

### Example product codes

**PL-PIX-15-A** Pixel string — RGBW, 100 mm pitch

**PL-PIX-15-B** Pixel mesh — RGBW, 1 m × 1 m

## Pixel control & DMX

Every PL-PIX 15 dot is an individually addressable RGBW pixel driven over DMX via a UCS512CBL IC. As a string or grid, the array renders low-resolution video, gradients and graphics; mesh pitch sets the display resolution.

### Formats

Format	Size / pitch	Pixels
Pixel string	100 mm pitch	per metre
Pixel mesh	1 m × 1 m	grid
Pixel mesh	2.3 m × 2 m	grid

### Control notes

- Each pixel is individually addressable over DMX.
- Choose string for free-form runs, mesh for ready-made grids.
- Inject 12 V DC power along long runs to hold brightness.