

PROJECT	FIRM	ORDER #	TYPE	QTY
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**PL-PIX 50 is a direct-view pixel luminaire for creative urban concepts — media façades, low-density video displays and environmental graphics. The pixel dots can be arranged in any formation, enabling flexible, close integration with architecture.**

Each pixel is individually addressable over DMX in RGBW or static CCT, at 1, 1.5 or 3 W per pixel from 24 V DC. The fully-potted polycarbonate housing (UL94-V0) is IP67 and ESD-protected for outdoor use, with clip on/off, connectorless anti-pull joints for fast daisy-chain assembly. Choose dome type and pixel pitch to suit the display resolution.

## Features

- Direct-view, individually addressable RGBW / CCT pixels over DMX.
- Arrange in any formation for media façades and low-density video displays.
- Clip on/off, connectorless anti-pull joints for fast daisy-chain assembly.
- Fully potted with imported glue; outdoor-rated with ESD protection.
- Polycarbonate housing, UL94-V0 flame retardance; IP67 · IK08.
- Four dome types and four pixel pitches (10-30 cm); white or black body, any custom.

## At a glance

<p>⚡ <b>Power</b> 1 · 1.5 · 3 W/pixel · 24 V DC</p>	<p>◆ <b>Protection</b> IP67 · IK08</p>	<p>☀ <b>Beam</b> 120° beam</p>	<p>🌡 <b>Temperature</b> -30 °C to +50 °C</p>	<p>◆ <b>Housing / Cert.</b> Polycarbonate · UL94-V0 CE compliant</p>	<p>★ <b>Warranty</b> 5 years, limited</p>
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## Variant matrix

Colour modes and control (per pixel).

PL-PIX-50-*	Colour mode	LED	Ch / pixel	Control	Beam	Pixel pitch
1-3	RGBW	4-in-1 RGBW	4 (R·G·B·W)	DMX	120°	10-30 cm
4-9	Static CCT	White	1 (dimming)	DMX	120°	10-30 cm

## Specifications

<b>Series</b>	Pixel Series — direct-view pixel luminaire
<b>Product code</b>	PL-PIX-50-*.***.* (see Configure your product on page 4)
<b>Pixel dot diameter</b>	≈ 50 mm (see dimensions)
<b>Colour modes</b>	RGBW · Static CCT
<b>RGBW options</b>	RGBW 3000 K · 4000 K · 6500 K
<b>CCT options</b>	2700 K · 3000 K · 3500 K · 4000 K · 5000 K · 6000 K
<b>Power per pixel</b>	1 W · 1.5 W · 3 W
<b>Operating voltage</b>	24 V DC
<b>Control protocol</b>	DMX (per-pixel addressable)
<b>Beam angle</b>	120°
<b>Pixel pitch</b>	10 cm · 15 cm · 20 cm · 30 cm
<b>Dome / lens</b>	Flat clear · Flat diffused · Dome clear · Dome crystal
<b>Body finish</b>	White · Black · custom
<b>Housing</b>	Polycarbonate
<b>Flame retardance</b>	UL94-V0
<b>IP rating</b>	IP67
<b>IK rating</b>	IK08
<b>Operating temperature</b>	-30 °C to +50 °C
<b>Connection</b>	Clip on/off · anti-pull connectorless · daisy-chain
<b>Protection</b>	Outdoor-rated · ESD protection · fully potted (imported glue)
<b>Compliance</b>	CE
<b>Warranty</b>	5 years, limited

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## Dimensions

### Pixel dot & pitch

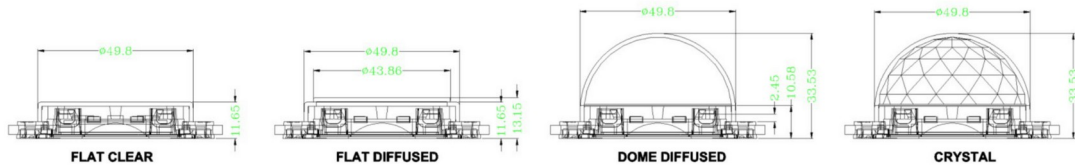
Direct-view pixel dot, ≈ 50 mm diameter, on a flexible connectorless string. Standard pixel pitches 10 / 15 / 20 / 30 cm; custom available.

### Dome & body

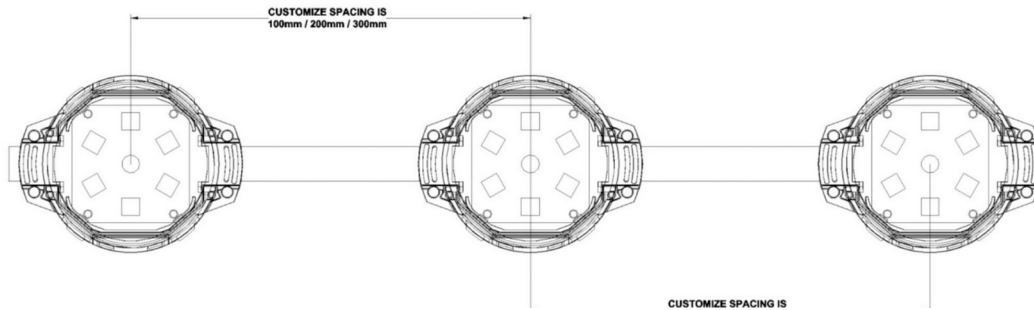
Four dome types — flat clear, flat diffused, dome clear and dome crystal — set the light spread and look. Body finish white or black (custom available). See drawing for dome dimensions.

## DIMENSIONS

### SIDE VIEW



### TOP VIEW



Side and isometric views of the four dome types (dimensions in mm).

## Installation

### Mounting

- Arrange the pixel dots in the desired formation and fix to the substrate; the flexible string and clip joints allow free-form layouts on façades and structures.
- Connectorless anti-pull joints clip on and off for fast assembly and service.

### Electrical & control

- Power from a 24 V DC supply sized for the total pixel count and wattage (1-3 W per pixel, plus headroom).
- Each pixel is individually addressable over DMX; daisy-chain dots and inject power as required for 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-50-<colour>-<wattage>-<body>-<dome>-<pitch>, selecting one option from each row below.

#	Field / option codes
1	Colour (CCT / RGBW): 1 RGBW 3000 K · 2 RGBW 4000 K · 3 RGBW 6500 K · 4 CCT 2700 K · 5 CCT 3000 K · 6 CCT 3500 K · 7 CCT 4000 K · 8 CCT 5000 K · 9 CCT 6000 K · Z custom
2	Wattage / pixel: A 1 W · B 1.5 W · C 3 W · Z custom
3	Body finish: 1 White · 2 Black · Z custom
4	Dome type: A Flat clear · B Flat diffused · C Dome clear · D Dome crystal · Z custom
5	Pixel pitch: 1 10 cm · 2 15 cm · 3 20 cm · 4 30 cm · Z custom

### Example product codes

**PL-PIX-50-3-A-2-A-4** RGBW 6500 K · 1 W/px · black body · flat-clear dome · 30 cm pitch

**PL-PIX-50-4-C-1-B-2** CCT 2700 K · 3 W/px · white body · flat-diffused dome · 15 cm pitch

## Pixel control & DMX

Every PL-PIX 50 dot is an individually addressable pixel. Driven over DMX, the array renders low-resolution video, gradients and graphics; pixel pitch (10-30 cm) sets the display resolution and viewing distance.

### Pixel pitch & resolution

Pixel pitch	Approx. density	Typical use
10 cm	~100 dots/m <sup>2</sup>	Highest resolution
15 cm	~44 dots/m <sup>2</sup>	High resolution
20 cm	~25 dots/m <sup>2</sup>	Medium resolution
30 cm	~11 dots/m <sup>2</sup>	Long viewing distance

### Control notes

- Each pixel is individually addressable over DMX.
- Pixel pitch sets resolution — closer pitch for nearer viewing.
- Inject 24 V DC power along long runs to hold brightness.