

PROJECT	FIRM	ORDER #	TYPE	QTY
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PL-PIX 100C1 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.

This 100 mm pixel is individually addressable over DMX in RGBW or static CCT at 3 or 5 W per pixel from 24 V DC, delivering 102 lm per pixel. The polycarbonate housing with diffused dome is IP65 and ESD-protected for outdoor use, available in black or white, and ships with 0.3 m cable in and out for fast daisy-chaining.

Features

- Direct-view, individually addressable RGBW / CCT pixel over DMX.
- Selectable 3 W or 5 W per pixel; 102 lm per pixel.
- Polycarbonate housing in black or white finish.
- Diffused dome; outdoor-rated with ESD protection.
- IP65; includes 0.3 m cable in and cable out.
- Four pixel pitches (10–30 cm) for media façades and graphics.

At a glance

<p>⚡ Power 3 · 5 W/pixel · 24 V DC</p>	<p>◆ Protection IP65</p>	<p>☀ Beam 120° beam</p>	<p>🌡 Temperature -30 °C to +60 °C</p>	<p>♦ Housing / Cert. Polycarbonate CE compliant</p>	<p>★ Warranty 5 years, limited</p>
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Variant matrix

Colour modes and output (per pixel).

PL-PIX-100C1-*	Colour mode	LED	Ch / pixel	Control	Flux / pixel	Dome
1-3	RGBW	OSRAM 2835	4 (R·G·B·W)	DMX	102 lm	Diffused
4-9	Static CCT	OSRAM 2835	1 (dimming)	DMX	102 lm	Diffused

Specifications

Series	Pixel Series — high-output pixel luminaire
Product code	PL-PIX-100C1-*.~*.~*.~* (see Configure your product on page 4)
Dimensions	Ø 100 mm × 67 mm (L1 100 · L2 67)
Colour modes	RGBW · Static CCT
RGBW options	RGBW 3000 K · 4000 K · 6500 K
CCT options	2700 K · 3000 K · 3500 K · 4000 K · 5000 K · 6000 K
LED type	OSRAM 2835
LEDs per pixel	12
Power per pixel	3 W · 5 W
Operating voltage	24 V DC
Luminous flux	102 lm/pixel (RGBW · CRI 90)
Control protocol	DMX (per-pixel addressable)
Beam angle	120°
Pixel pitch	10 cm · 15 cm · 20 cm · 30 cm
Dome / lens	Diffused dome
Body finish	White · Black · custom
Housing	Polycarbonate
IP rating	IP65
Operating temperature	-30 °C to +60 °C
Cabling	0.3 m cable in and cable out · max run 5 m
LED lifetime	50,000 hours
Warranty	5 years, limited · CE compliant

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Dimensions

Pixel & cavity

Round pixel, Ø 100 mm (L1), 67 mm deep (L2 insert-cavity position). Pixel pitches 10 / 15 / 20 / 30 cm; runs up to 5 m, with 0.3 m cable in / out.

Build & dome

Polycarbonate body in black or white, with a diffused dome. IP65, ESD-protected, for outdoor architectural use.

Installation

Mounting

- Insert each pixel into the prepared cavity (L2 67 mm) and fix; arrange in any formation for façades and graphics.
- Pixels daisy-chain using the supplied 0.3 m cable in / cable out (up to 5 m per run).

Electrical & control

- Power from a 24 V DC supply sized for the total pixel count and wattage (3–5 W per pixel, plus headroom).
- Each pixel is individually addressable over DMX; daisy-chain and inject power for long runs.
- IP65 — suitable for outdoor installation; seal all joints to the same rating.

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Configure your product

Build your model code in the form PL-PIX-100C1-<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 3 W · B 5 W · Z custom
3	Body finish: 1 White · 2 Black · Z custom
4	Dome type: A Dome diffused · Z custom
5	Pixel pitch: 1 10 cm · 2 15 cm · 3 20 cm · 4 30 cm · Z custom

Example product codes

PL-PIX-100C1-1-A-2-A-1 RGBW 3000 K · 3 W/px · black body · diffused dome · 10 cm pitch

PL-PIX-100C1-5-B-1-A-4 CCT 3000 K · 5 W/px · white body · diffused dome · 30 cm pitch

Pixel control & DMX

Every PL-PIX 100C1 is an individually addressable, high-output pixel. Driven over DMX, arrays render bold low-resolution video, gradients and graphics; pixel pitch (10-30 cm) sets the display resolution.

Pixel pitch & resolution

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

Control notes

- Each pixel is individually addressable over DMX.
- RGBW gives full colour mixing; static CCT uses DMX for dimming.
- Daisy-chain with the supplied 0.3 m cable in / out (max 5 m per run).