COLOR**KINETICS**

a ⓢignify brand

Flex Compact Pro

Product Guide

a ⓢignify brand

Flex Compact Pro

Some products light up structures.
Flex Compact Pro transforms them.

In this guide:

Every surface. Every vision.

Direct-view lighting is one of the most demanding disciplines in architectural lighting.

It calls for luminaires that can follow a designer's vision across curved surfaces, complex geometries, and three-dimensional structures—delivering vivid, daylight-visible light that moves people as much as it illuminates buildings.

Color Kinetics has been at the forefront of this discipline since 2005, when the iconic Boathouse Row in Philadelphia first came alive with individually controllable nodes of light. Two decades and thousands of installations later, from stadium roofs in Germany and suspension bridges in Vietnam, to public art in Nashville, shopping malls in Jakarta, and landmark bridges across London's Illuminated River, the Flex family has shaped the way the world experiences architectural light, on six continents and counting.

Now, Flex Compact Pro is the next chapter in that story. Its innovative RGBiW platform, vibrant saturated color, tunable white, and powerful eW, all from a single individually controllable node, gives designers more creative range than any previous Flex generation. Wrap it around a column. Trace it across a curved façade. Build a media surface that stops a city in its tracks. With flexible strand configurations, branching, and up to 25% energy savings over the previous generation, Flex Compact Pro brings twenty years of hard-won expertise to bear on your most ambitious projects.

The legacy you trust. The innovation your projects demand.

Flex Compact Pro delivers superior output, creative versatility, and installation flexibility in the proven Flex form lighting designers around the world rely on. Advanced Color Kinetics technologies including Chromacore Pro, FluxBoost, and the new RGBiW platform combine to create a direct-view luminaire that performs at the highest level while using less energy.

Exceptional Performance

Sophisticated RGBiW platform—Flex Compact Pro delivers individually controllable nodes that illuminate with vibrant saturated RGB, soft pastel RGBW, tunable iW, and powerful eW white, all from a single platform. Daylight-visible output means your design commands attention around the clock.

Standard and custom strand configurations—Every installation is different. That's why Flex Compact Pro is endlessly configurable. Standard strands feature a Strand Interface Module and 50 nodes, with 102 mm (4 in) or 305 mm (12 in) on-center spacing, or custom spacing up to 1 m (39.4 in). Custom node counts from 1 to 100, or a maximum run length of 465 ft including branches, or a 400 ft leader cable. Strands can also be field shortened on site. Use the Flex Compact Pro Configurator to find the right setup for your project.

Output volume and quality—Bright enough to stop people in their tracks. Flex Compact Pro delivers up to 51 lm per node (factory default) and up to 69.8 lm per node in tunable white, with CRI up to 95.8 for white light that is as beautiful as it is powerful. All at just 0.75 W per node or less.

Outdoor rated, built for the long haul—A 3-conductor double-jacketed flat cable, IP66 rating, and ASTM B117 salt-spray resistance of 1,500 hours mean Flex Compact Pro is ready for whatever the environment throws at it.
Lens options—Flat and translucent dome lenses are standard. Optional marquee lenses, available in semi-frosted, and translucent, and snap onto flat-lens nodes, recreating the timeless look of a classic theatre marquee in warm, cool, or full color light.

Smart Design

Mount it your way—Flex Compact Pro fits the way you work. Integrated cable-tie mounts on each node provide built-in strain relief, ready for customer-supplied cable ties, no additional accessories required. Optional single-node mounts anchor installations with complex geometries or uneven spacing, while optional mounting tracks keep linear runs arrow-straight, with snap-on spacers concealing cabling for a clean, professional finish.

Simplified installation and control—Flex Compact Pro gets you up and running fast. Auto-addressing eliminates manual node configuration, and the factory default 3-channel control mode automatically optimises color rendering without extra programming. Need more precision? Additional control modes give you direct access to all five LED channels. CKDMX branching support keeps wiring clean and flexible across even the most complex layouts.

Technologies that deliver clear benefits.

FluxBoost—a breakthrough technology that optimizes power and quality. With FluxBoost, an installation can use more of the power budget allocated to the project, enabling significantly higher output, creating more saturated colors, reducing waste and increasing efficiency.

Chromacore Pro—is our next-generation proprietary control technology that puts precise, intelligent control at the core of our most advanced low-voltage luminaires (24 VDC), building on the precision and reliability of the original Chromacore and pushing it further.
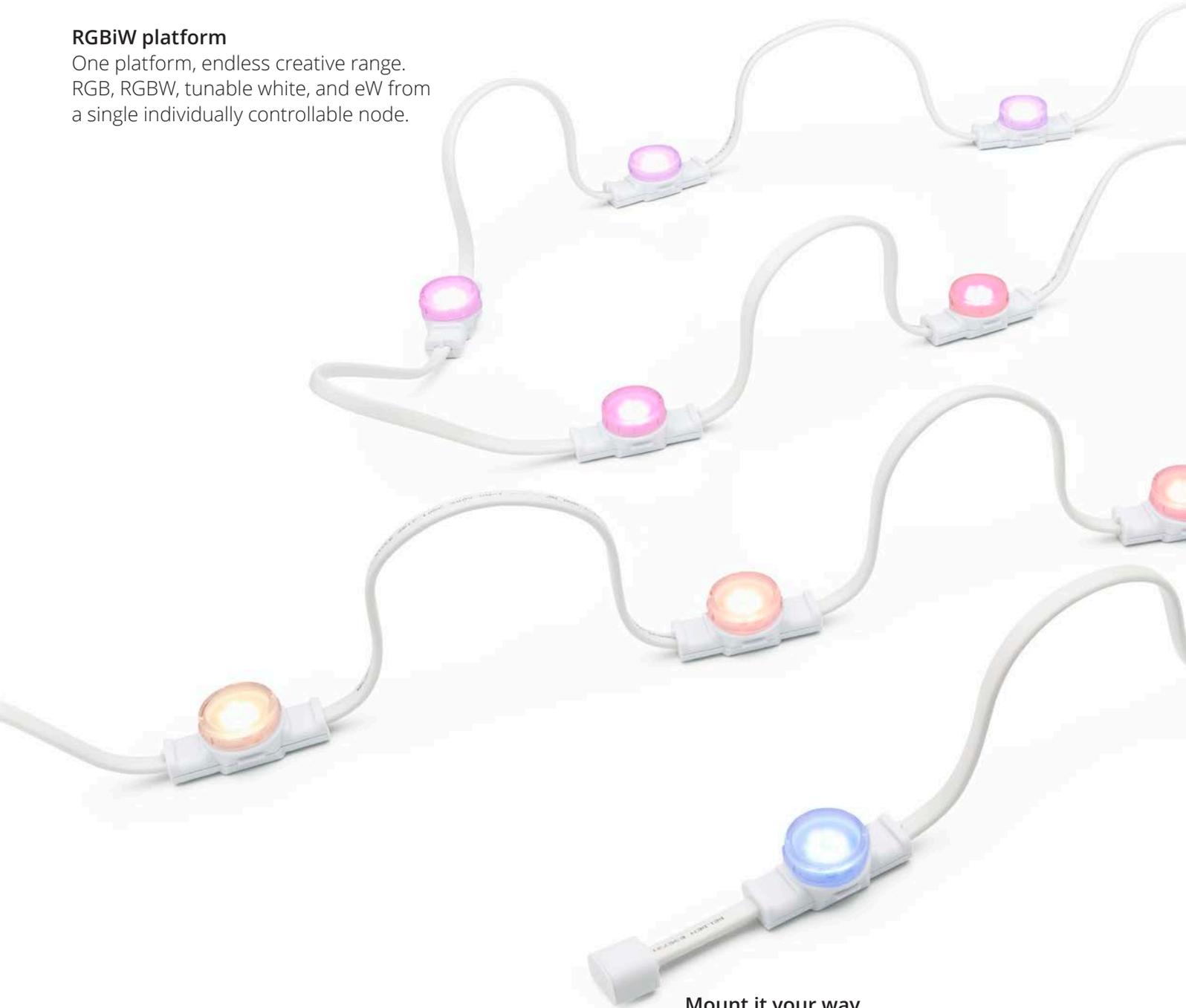
Take a closer look

With flexible strand configurations, branching, and up to 25% energy savings over the previous generation, Flex Compact Pro brings twenty years of hard-won expertise to bear on your most ambitious projects.

RGBiW platform
One platform, endless creative range. RGB, RGBW, tunable white, and eW from a single individually controllable node.
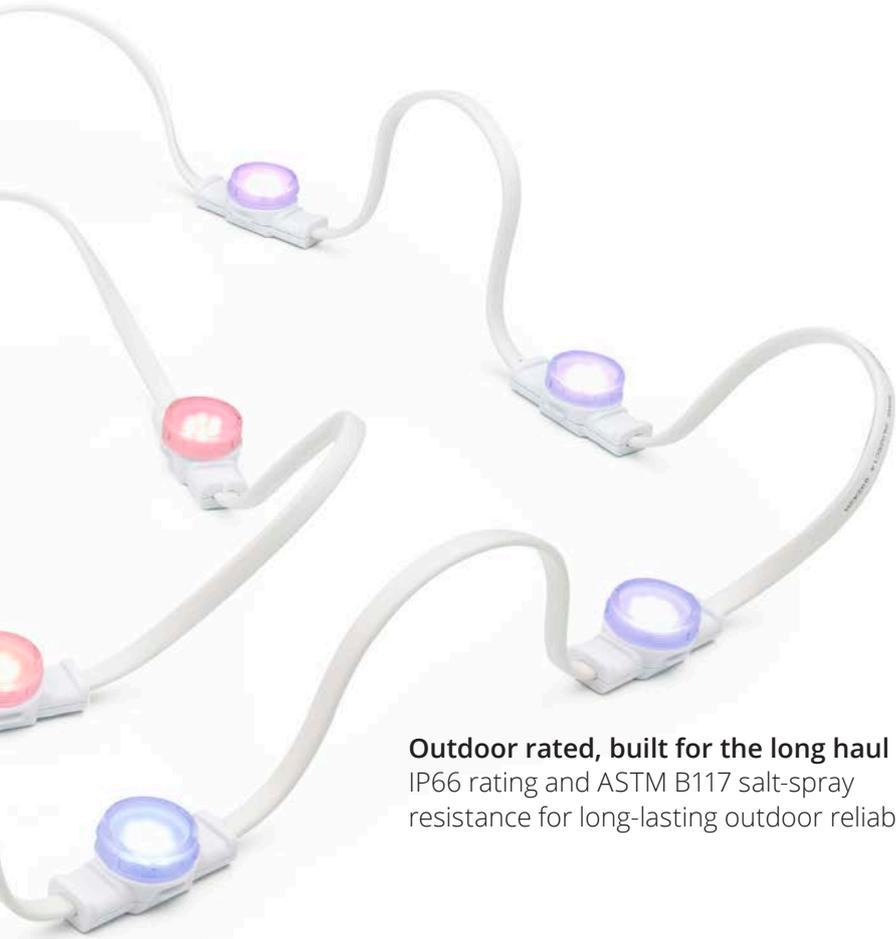
Mount it your way
Integrated strain relief tabs and a full range of mounting accessories adapt to any installation.

Endlessly configurable
Standard strands with 50 nodes, or choose custom node counts, spacing, and run lengths up to 465 ft to go as big as your vision demands.

Bright enough to stop people in their tracks.
Daylight-visible output and exceptional white light quality, at just 0.75 W per node.

Outdoor rated, built for the long haul
IP66 rating and ASTM B117 salt-spray resistance for long-lasting outdoor reliability.

The right finish for every installation
From marquee looks to clean linear runs. Mounting accessories and optional marquee lenses adapt Flex Compact Pro to any creative vision.

Exceptional lighting takes more than a luminaire

To unlock the full potential of your Flex Compact Pro luminaires, you need the right components to power and control them. Color Kinetics completes your solution with:

Controllers

Our broad line of controllers brings you differing capabilities that match your specific needs, the complexity of your project, and your budget. Our controllers offer support for DMX and Ethernet (KiNET and sACN) protocols. Because of addressing limitations, DMX is appropriate for relatively simple installations

Because it is not subject to DMX addressing limitations, Ethernet is the preferred environment for intricate color-changing light shows using Flex Compact Pro luminaires.

All Flex Compact Pro solutions work seamlessly with our full range of controllers, including iPlayer 4, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro, as well as third-party DMX controllers.

Controllers

Flex Compact Pro Luminaires

Power / Data Supplies

Monitoring and Management

Power/Data Supplies

All Flex Compact Pro luminaires accept either DMX or Ethernet input and 24 VDC power from the PDS-80 CK2 Power/Data supply or CM-160 CK2 Control Module with compatible third-party power supplies.

Monitoring and Management

Monitor dynamic architectural lighting assets and manage scenes using Interact Landmark software and system architecture. Securely access Interact Landmark with your smartphone, tablet or PC, from anywhere in the world using an internet connection.
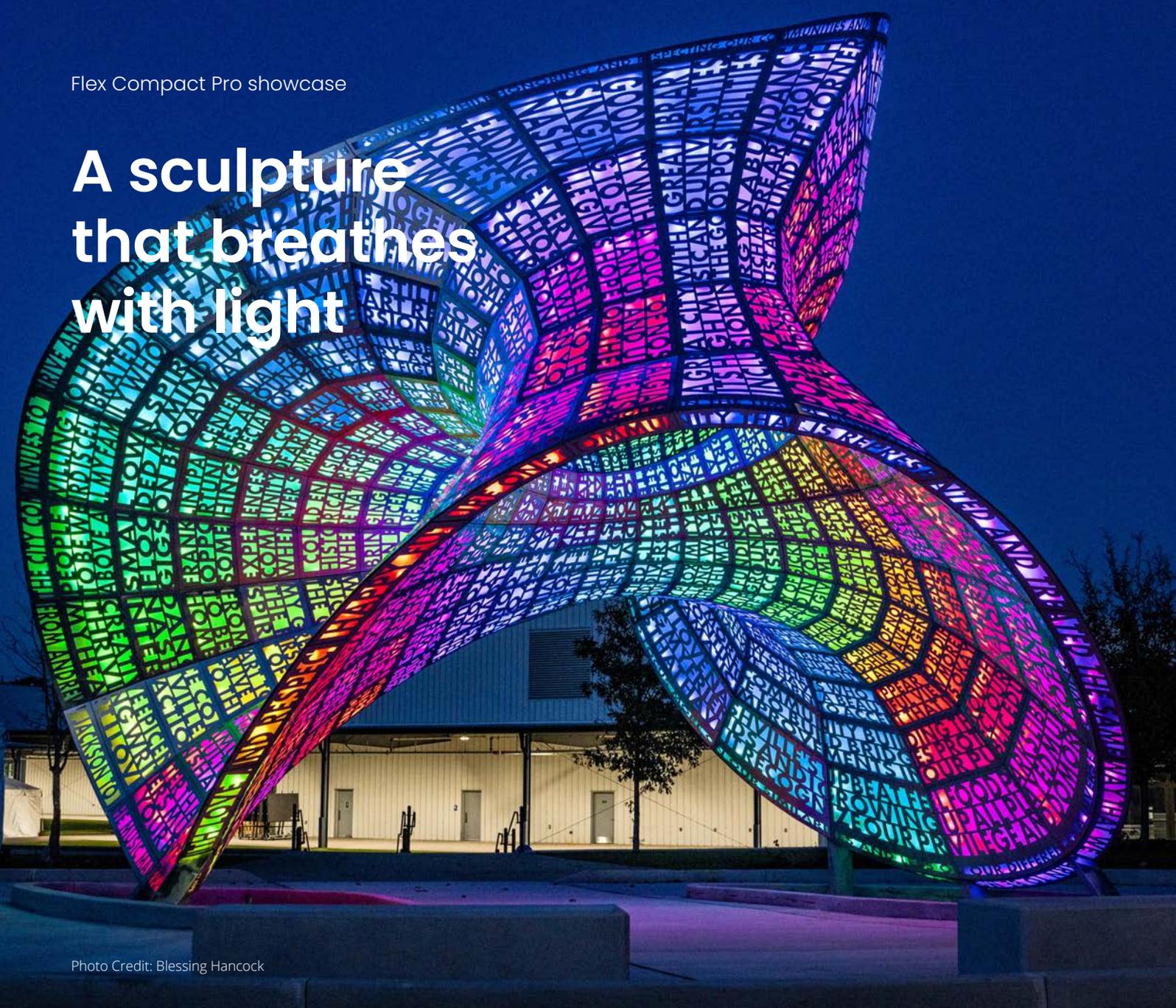
A sculpture that breathes with light

Photo Credit: Blessing Hancock

Loqui, a three-story stainless steel sculpture at Fairgrounds Nashville, needed lighting as expressive as the 400 voices it represents. Color Kinetics Flex Compact luminaires delivered — wrapping the complex dual-megaphone form with individually controllable nodes that create a breathing, ripple effect of light. Daylight-visible output ensures Loqui captivates around the clock, while straightforward programming made bringing this ambitious artistic vision to life beautifully simple.

These images show lighting scenarios appropriate for Flex Compact Pro's unique strengths, but do not feature actual installations, since Flex Compact Pro is new to the market.

Where light and team spirit ignite

Photo Credit: Signify GmbH

Red Bull Arena in Leipzig demanded lighting as dynamic as the game itself. Color Kinetics Flex Compact luminaires deliver individually controllable nodes of light across the stadium's iconic arrow-shaped ceiling features, Mixed Zone video walls, fan shop, and service areas. Their flexibility to conform to complex architectural geometries and ability to create vivid, programmable video effects made them the natural choice for one of German football's most ambitious stadium transformations.
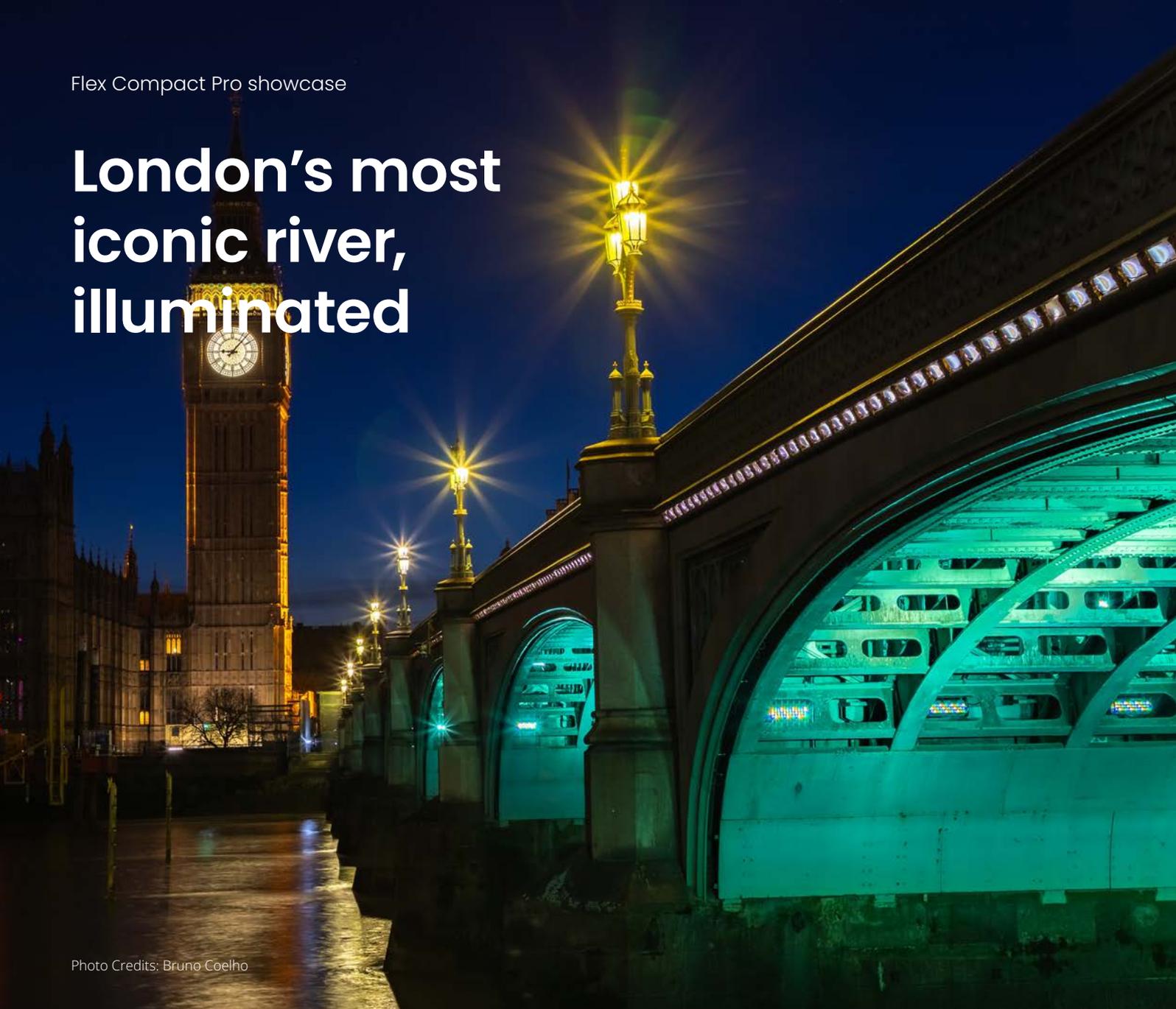
London's most iconic river, illuminated

Photo Credits: Bruno Coelho

London's Illuminated River is the world's longest public art commission with 3.2 miles of dynamically lit bridges stretching from London Bridge to Lambeth Bridge, seen by an estimated 90 million people each year. Color Kinetics Flex Compact luminaires played a precise and vital role, with individually controllable nodes positioned within the intricate crests of Westminster Bridge to realise artist Leo Villareal's sympathetic palette of gently moving hues and pastel colors. Light that is as technically precise as it is emotionally moving.

These images show lighting scenarios appropriate for Flex Compact Pro's unique strengths, but do not feature actual installations, since Flex Compact Pro is new to the market.

A tower that lights up a city

Photo Credit: Savaş Keskiner, İstavrit Görsel Çözümler

At the heart of one of Turkey's largest mixed-use developments, the Metropol Istanbul tower needed a lighting system as ambitious as the building itself. Color Kinetics Flex Compact luminaires, 30,000 individually controllable nodes mounted across the façade, transform the tower into a dynamic media façade visible from across Istanbul. A flexible DMX infrastructure allows digital content to be shared at city scale, turning an architectural landmark into a living, breathing canvas for light.

Specifications and information

Products	Power consumption	Lumens per node	Efficacy lm/W	CRI
Flex Compact Pro	0.75 W per node Max.	31.9 Dome, 51.0 Flat, Full on* 44.1 Dome, 69.8 Flat, iW mode	(full on) factory default - 99.3	2700K - 93 6500K - 95.8

* 3-Channel IN / 5-Channel OUT (Optimized white, Factory default)

General information

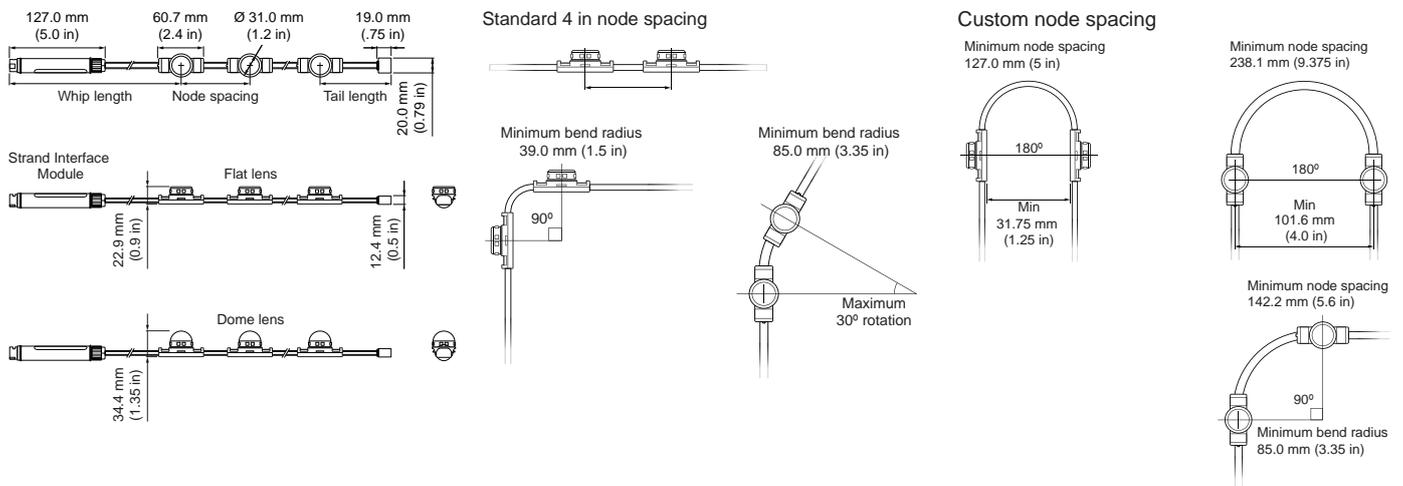|	
Beam Angles	156° Flat, 283° Translucent Dome
LED Channels	Red/Green/Blue/2700K/6500K
Input Voltage	24 VDC via PDS-80 CK2 24V, or CM-160 CK2 24V
Housing Material	Polycarbonate
Lens	UV-protected polycarbonate
Corrosion Resistance	Complies with ASTM B117 standard for > 1,500 hours
Approbations	UL/cUL, FCC Class A, CE, RCM, CQC
Environment	Dry/Damp/Wet Location, IP66
Weight	1.46 kg (3.2 lb) to 2.2 kg (4.9 lb) per 50 nodes
Dimensions	Flat 31 x 60.7 x 22.9 mm (1.2 x 2.4 x 0.9 in) Dome 31 x 60.7 x 34.4 mm (1.2 x 2.4 x 1.35 in)
Interface	PDS-80 CK2 24V CM-160 CK2 24V
Control System	Color Kinetics full range of controllers, including iPlayer 4, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers
Control Channels	3 channels per node. 3-Channel IN / 5-Channel OUT (Optimized white, Factory default). For additional Control Channel information including configuring Flex Compact Pro to iW mode with QuickPlay Pro 2. Please refer to https://colorkinetics.helpdocs.io/article/gv717tfa25

For further information

Flex Compact Pro is available as standard strands with 50 nodes, or choose custom node counts, spacing, and run lengths. Complete details including Installation Instructions, Specification Sheets, .ies files, and product drawings, can be found on the product pages.

Flex Compact Pro

Dimensions

Whip length   Node spacing   Tail length

127.0 mm (5.0 in)   60.7 mm (2.4 in)   Ø 31.0 mm (1.2 in)   19.0 mm (.75 in)   20.0 mm (0.79 in)

Strand Interface Module

Flat lens

22.9 mm (0.9 in)   12.4 mm (0.5 in)

Dome lens

34.4 mm (1.35 in)

Standard 4 in node spacing

Minimum bend radius 39.0 mm (1.5 in)   90⁰

Minimum bend radius 85.0 mm (3.35 in)   Maximum 30⁰ rotation

Custom node spacing

Minimum node spacing 127.0 mm (5 in)   180⁰   Min 31.75 mm (1.25 in)

Minimum node spacing 238.1 mm (9.375 in)   180⁰   Min 101.6 mm (4.0 in)

Minimum node spacing 142.2 mm (5.6 in)   90⁰   Minimum bend radius 85.0 mm (3.35 in)

Configuration and planning

Regardless of the size and complexity of your installation, the planning time you spend up front can help streamline the installation and configuration of your luminaires. Keep these points in mind as you plan your installation:

Which power/data supplies are compatible?

Download the **Color Kinetics Product Guide** for the complete picture.

QuickPlay Pro 2

Flex Compact Pro ships in 3-channel IN / 5-channel OUT factory default mode. Need more control? Additional modes — including iW mode — are easily configured using **QuickPlay Pro 2**.

For more information visit the **Color Kinetics Knowledgebase:** https://colorkinetics.helpdocs.io/article/gv717tfa25

Bring your structure to life with video.

Whether you're a lighting designer pushing the boundaries of what's possible, a municipality transforming a landmark into an icon, or a building owner looking to make your structure impossible to ignore — video is one of the most powerful tools at your disposal. Before you dive in, the **Color Kinetics Video Guideline** will walk you through the key questions, essential elements, and technical considerations you'll need to create a spectacular, complete solution.

Plan ahead. Install with confidence.

Before your first strand goes up, decide how you want to configure your system—offline or interactively. Offline configuration lets you stage and set up your system off-site before installation, ideal for projects spanning multiple locations or hard-to-reach spaces. Interactive configuration is performed on-site by an experienced technician after installation, connecting and testing luminaires in a single pass. Choose the approach that fits your project and your team.

Accessories

Item	Item Number	12NC
3 Conductor Flex Compact Pro Leader Cable, 1.5 m (5 ft) w/ flying leads	608-000082-03	912400138112
3 Conductor Flex Compact Pro Leader Cable, 15.2 m (50 ft) w/ flying leads	608-000082-04	912400138113
Flex Compact Pro Single-Node Mounts, Qty 50, Black	601-000031-00	912400138089
Flex Compact Pro Single-Node Mounts, Qty 50, White	601-000031-01	912400138090
Flex Compact Pro Spacers, Qty 50, 102 mm (4 in), Black	601-000032-00	912400138091
Flex Compact Pro Spacers, Qty 50, 102 mm (4 in), White	601-000032-01	912400138092
Flex Compact Pro Spacers, Qty 50, 305 mm (12 in), Black	601-000032-02	912400138093
Flex Compact Pro Spacers, Qty 50, 305 mm (12 in), White	601-000032-03	912400138094
Flex Compact Pro Mounting Track, Qty 1, 1.2 m (4 ft), Black	601-000033-00	912400138095
Flex Compact Pro Mounting Track, Qty 1, 1.2 m (4 ft), White	601-000033-01	912400138096

Power/Data Supplies		
PDS-80 CK2 4A 24V, IP66 UL for Flex Compact Pro	109-000202-00	912400138371
PDS-80 CK2 4A 24V, IP66 CE, RCM, CQC for Flex Compact Pro	109-000202-01	912400138372
CM-160 CK2 24V, IP00, UL/cUL, CE Control Module for Flex Compact Pro	109-000042-00	912400138680

COLOR**KINETICS**

www.colorkinetics.com