eW Accent MX Powercore

Precision-controlled direct-view linear exterior LED fixture with solid white light

PHILIPS

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eW Accent MX Powercore is a direct view linear LED fixture ideally suited for highlighting exterior architectural details with long ribbons of intense, high-quality white light in a warm 2700 K or a cool 4000 K. Variable resolution offers the ability to individually control the brightness of discrete segments of each fixture for black-and-white-only effects, video, and graphics. eW Accent MX Powercore offers the efficiency and cost-effectiveness of Powercore technology in an outdoor-rated, road-ready aluminum housing.

- Integrates patented Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage. The Philips Color Kinetics Data Enabler Pro merges line voltage and control data and delivers them to the fixture over a single cable, dramatically simplifying installation and lowering total system cost.

- Superior binning algorithm sets new standard for color consistency — eW Accent MX Powercore exceeds the recognized standards for color quality to guarantee uniformity and consistency of hue and color temperature across LED sources, fixtures, and manufacturing runs.

- Native, onboard Ethernet — Fixtures accept Ethernet input from the Data Enabler Pro to support long control runs not subject to DMX data and addressing limitations.

- Precise resolution control — Fixtures can be addressed and controlled in increments down to 1.2 inches (30 mm), or up to 4 ft (1.2 m).

- Two fixture lengths — 2 ft and 4 ft lengths are easily connected to create continuous columns of intense white light.

- Rugged, durable construction — This IP66-rated fixture is designed to meet the taxing requirements of outdoor installations. The extruded aluminum housing resists shock, vibration, and other forms of rough handling.

- Flexible positioning — Over-molded, end-to-end locking connectors supply both power and data. Connectors can make 180° turns for easy layout. Jumper cables of 1 ft (305 mm), 2 ft (610 mm), 5 ft (1.5 m), and 10 ft (3 m) can add extra space between fixtures.

- Industry-leading controls — Works seamlessly with the complete Philips line of controllers, including Video System Manager Pro, Light System Manager, and iPlayer 3, as well as third-party controllers.

- Universal power input range — Accepts a universal power input range of 100 to 240 VAC for consistent installation anywhere in the world. Each Data Enabler Pro can support multiple fixtures for creating long lines of video or ribbons of intricately changing effects.

Exceptional Viewing Angles

The diffused plastic lens, specifically designed for direct viewing, provides exceptional viewing angles of 250° x 180°, and ensures uniform color mixing.

New Applications in Black-and-White Video

With its variable pixel size and its ability to be controlled in increments ranging from 1.2 in (30 mm) to 4 ft (1.2 m), eW Accent MX Powercore supports new applications in black-and-white video. eW Accent MX Powercore fixtures can be controlled with the full suite of controllers from Philips Color Kinetics, and can display stunning monochromatic effects ranging from simple ribbons of solid white light to complex dynamic light shows to building-covering video displays.

At the award-winning Philips Color Kinetics booth at Lightfair 2011 in Philadelphia, Pennsylvania, USA, a video wall consisting of 18 4 ft eW Accent MX Powercore fixtures demonstrated the fixture's capabilities with a constantly changing array of snow and fire patterns, spirals, and other geometrical and abstract patterns. The 18 eW Accent MX Powercore fixtures were connected to a single Data Enabler Pro device and controlled by Light System Manager, an Ethernet controller from Philips Color Kinetics, which simultaneously controlled a range of other Philips Color Kinetics LED lighting fixtures in other areas of the booth.

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	2 ft (610 mm) fixture	4 ft (1.2 m) fixture
Output	Viewing Angle	220°	
	On-Axis Candela	58 (2700 K) / 88 (4000 K)	
	Lumens† / 4 ft	359 (2700 K) / 545 (4000 K)	
	Color Temperature*	2700 K / 4000 K	
	Lumen Maintenance‡	50,000+ hours L50 @ 50° C (full output)	
Electrical	Input Voltage	100 – 240 VAC, auto-switching, 50 / 60 Hz via Data Enabler Pro	
	Power Consumption	10 W per foot maximum at full output, steady state	
Control	Interface	Data Enabler Pro (DMX / Ethernet)	
	Control System	Philips full range of controllers, including Video System Manager Pro, Light System Manager, and iPlayer 3, or any third-party controllers	
Physical	Dimensions (Height x Width x Depth)	3.9 x 23.9 x 2.5 in (100 x 606 x 64 mm)	3.9 x 47.8 x 2.5 in (100 x 1213 x 64 mm)
	Weight	4.5 lb (2 kg)	9.3 lb (4.2 kg)
	Housing	Sealed plastic and extruded aluminum	
	Lens	Translucent plastic	
	Fixture Connections	Over-molded, integral male / female connectors	
	Temperature Ranges	-40° – 122° F (-40° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage	
	Humidity	0 – 95%, non-condensing	
	Maximum Fixtures Per Data Enabler Pro	25	25
Certification and Safety	Certification	UL / cUL, CE	
	Environment	Dry / Damp / Wet Location, IP66	

* Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.

† Lumen measurement complies with IES LM-79-08 testing procedures.

‡ L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf for more information.

CHROMASIC™ CK TECHNOLOGY | OPTIBIN® CK TECHNOLOGY | POWERCORE® CK TECHNOLOGY | CHROMACORE® CK TECHNOLOGY
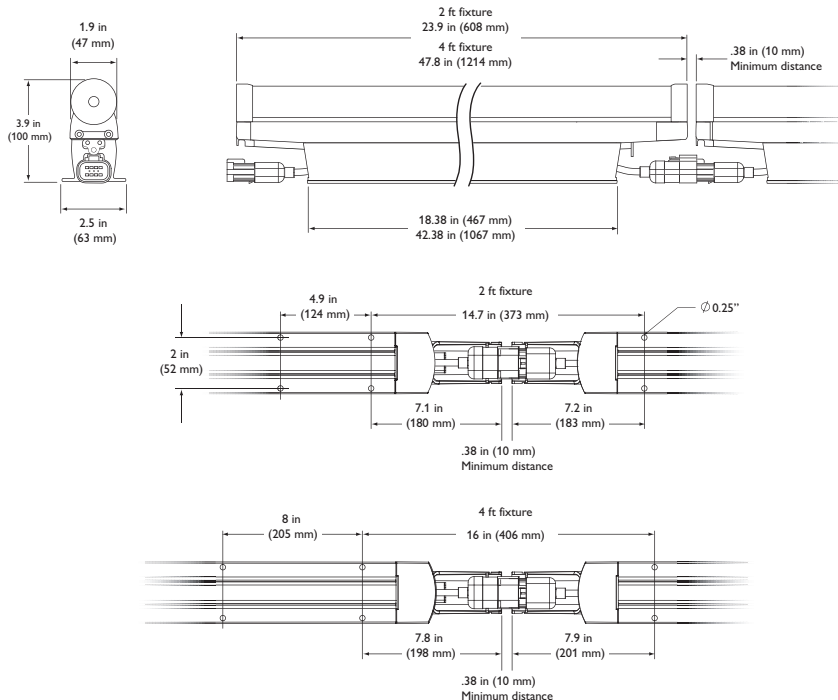
Fixtures and Accessories

eW Accent MX Powercore is part of a complete system which includes fixtures and:
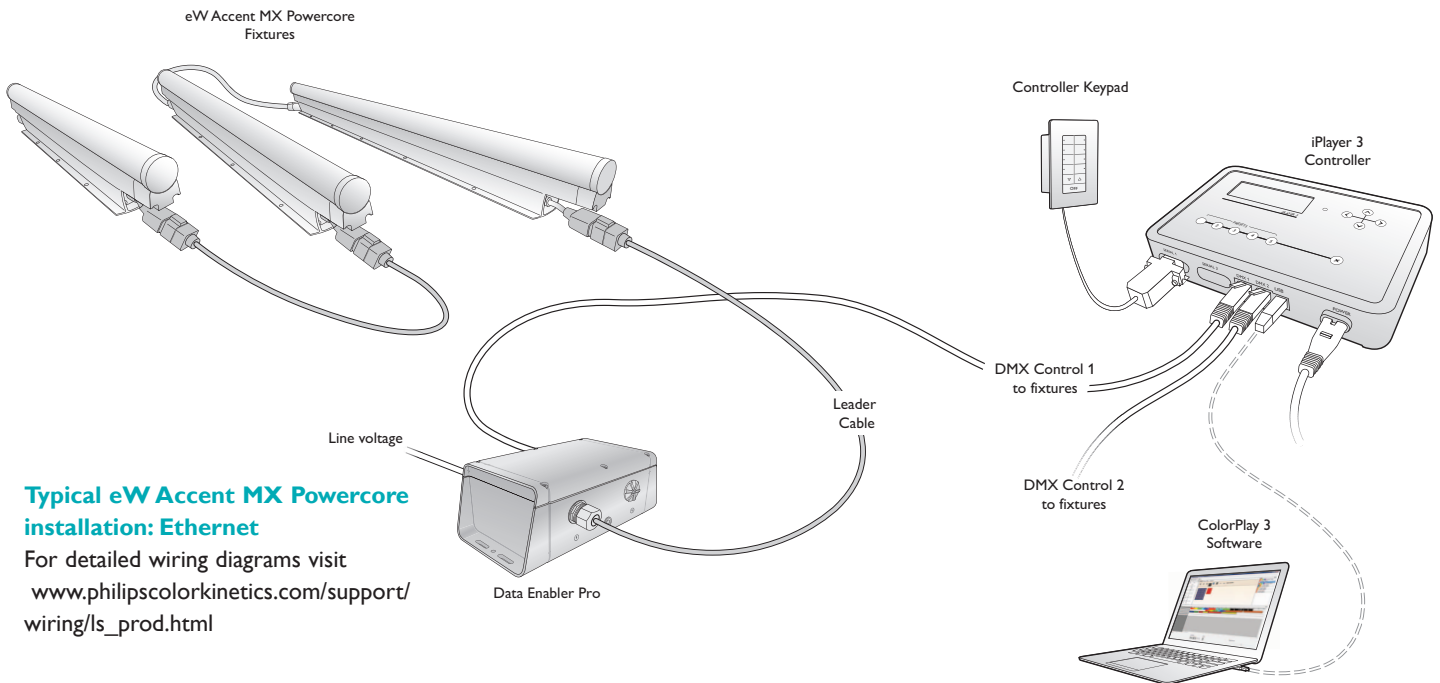
- One or more Data Enabler Pro devices

- One Leader Cable to connect each Data Enabler Pro output to a series of fixtures

- Optional Jumper Cables to add space between fixtures in a series, if necessary

- For black-and-white light shows or video displays, any Philips controller, including Video System Manager, Light System Manager 3, iPlayer 3, or a third-party controller

Included in the fixture box

eW Accent MX Powercore fixture

Installation Instructions

Item	CCT	Length	Item Number	Philips 12NC
eW Accent MX Powercore	2700 K	2 ft	523-000058-00	910503701124
		4 ft	523-000058-01	910503701125
	4000 K	2 ft	523-000058-03	910503701127
		4 ft	523-000058-04	910503701128
Leader Cable *with terminator and strain relief*	50 ft (15.2 m)		108-000028-01	910503700086
Jumper Cable	1 ft (305 mm)		108-000029-03	910503700087
	2 ft (610 mm)		108-000029-06	910503700090
	5 ft (1.5 m)		108-000029-05	910503700089
	10 ft (3 m)		108-000029-04	910503700088
Data Enabler Pro	3/4 in / 1/2 in NPT (US trade size conduit)		106-000004-00	910503701210
	PG21 / PG13 (metric size conduit)		106-000004-01	910503701211

Use Item Number when ordering in North America.

eW Accent MX Powercore Fixtures

Controller Keypad

iPlayer 3 Controller

DMX Control 1 to fixtures

DMX Control 2 to fixtures

ColorPlay 3 Software

Leader Cable

Line voltage

Data Enabler Pro

Typical eW Accent MX Powercore installation: Ethernet
For detailed wiring diagrams visit
www.philipscolorkinetics.com/support/wiring/ls_prod.html

Installation

eW Accent MX Powercore fixtures are ideally suited for creating long ribbons of controllable, high-quality white light. Adjustable node size offers the ability to dynamically vary the brightness of discrete segments of each fixture for black-and-white-only effects, video, and graphics.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eW Accent MX Powercore fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

Installing in Damp or Wet Locations

When installing in damp or wet locations, seal all fixture connections, power / data supplies, and junction boxes with electronics-grade RTV silicone sealant so that water or moisture cannot enter or accumulate in wiring compartments, cables, or other electrical parts. Use suitable outdoor-rated junction boxes when installing in damp or wet locations. Additionally, use gaskets, clamps, and other parts required for installation to comply with all applicable local and national codes.

✲ Refer to the eW Accent MX Powercore Installation Instructions for specific warning and caution statements.

Planning Your Installation

Regardless of the size and complexity of your installation, the time you spend planning up from can help minimize installation and configuration issues later. Planning includes understanding how to position eW Accent MX Powercore fixtures in relation to Data Enabler Pro devices, the number of fixtures you can connect together in a single run, and whether you need to connect fixtures end-to-end or use jumper cables to add extra space between them. Planning for black-and-white effects and video displays involves additional considerations such as how to set fixtures' node size (pixel resolution), pixel pitch, minimum and maximum viewing distances, sampling, and display resolution.

Installations that call for dynamic black-and-white effects or video involve three main steps:

1. Create a lighting design plan and layout grid

2. Address and configure fixtures

3. Mount and test fixtures

If you're creating a simple installation with relatively few lights, or if you're running an Ethernet lighting network with an accessible Ethernet switch, you can install the lights first, then address and configure them after installation. For more complex installations, especially for installations that require fixtures to be hung in locations that are difficult to access or installations in which fixtures are not all visible from a single location, you may want to address fixtures in a staging area before installing them.

Understanding Node Size and Pixel Resolution

To allow a fine level of control, eW Accent MX Powercore fixtures offer variable node size. A node is an individually controllable fixture segment of a certain length. eW Accent MX Powercore nodes can be as large as the full length of the fixture or as small as 1.2 in (30 mm). A 4 ft (1.2 m) fixture, for instance, can act as one large node, or it can have as many as 40 nodes of 1.2 in (30 mm) each.

In architectural accenting and entertainment applications, you typically use larger node sizes for filling spaces or washing surfaces with a desired intensity of variable-intensity light. In video applications, the appropriate node size (pixel resolution) is determined by the maximum and minimum viewing distances and video resolution.

Number of Nodes Per Fixture

Fixture Length	Nodes Per Fixture
2 ft (610 mm)	1 – 20
4 ft (1.2 m)	1 – 40

6 in (152 mm) nodes

eW Accent MX Powercore 2 ft   eW Accent MX Powercore 2 ft

Node sizes that divide evenly into the total fixture length ensure consistency of presentation across fixtures. A consistent node size can be important for the proper display of video and other dynamic light show content.

8.4 in (213 mm) node   8.4 in (213 mm) node   7.2 in (183 mm) node

eW Accent MX Powercore 2 ft

Node sizes that do not divide evenly into the total fixture length leave an inconsistently sized node at the end of each fixture.

DMX or Ethernet Control?

eW Accent MX Powercore fixtures can accept either DMX or Ethernet (KiNET) data input. Because of addressing limitations, DMX is appropriate for relatively simple installations, or for light shows in which multiple fixtures or fixture nodes operate in unison. Since a DMX universe consists of 512 addresses, the maximum number of individually addressable eW Accent MX Powercore nodes in a DMX universe is 170 (170 x 3 = 510). This limitation can determine the maximum number of fixtures per Data Enabler Pro in installations with dynamic light shows. For example, four 4 ft fixtures at the maximum number of nodes per fixture will exceed the entire range of unique DMX addresses in a universe, even though the Data Enabler Pro is capable of supporting up to 25 4 ft fixtures in a single run.

Because it is not subject to DMX addressing limitations, Ethernet is the preferred environment for intricate light shows and video displays calling for hundreds or thousands of nodes that must be controlled individually. In an Ethernet lighting network, each eW Accent MX Powercore fixture effectively functions as its own universe, identified by the fixture's unique IP address.

A typical DMX installation uses a DMX controller such as iPlayer 3 or a third-party DMX controller. A typical Ethernet installation uses one or more Ethernet switches, and an Ethernet controller such as Light System Manager or Video System Manager Pro. You can connect a series of up to 25 eW Accent MX Powercore fixtures to a single Data Enabler Pro.

Achieving Consistent Node Size

Consistent node size can be important for planning both video installations and dynamic light shows. Node sizes that divide evenly into a fixture's total length remain consistent across multiple fixtures installed end-to-end, regardless of fixture length.
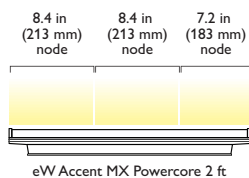
Consistent Node Sizes

Node Size	Nodes Per 2 ft (610 mm) fixture	Nodes Per 4 ft (1.2 m) fixture
1.2 in (30 mm)	20	40
2.4 in (61 mm)	10	20
4.8 in (122 mm)	5	10
6 in (152 mm)	4	8
12 in (305 mm)	2	4
24 in (610 mm)	1	2

You can select node sizes other than those listed above, but they each create one shorter node at the end of each fixture. For example, assigning a node size of 8.4 in to a 2 ft (610 mm) fixture creates two nodes of 8.4 in (213 mm) and one node of 7.2 in (183 mm), because 8.4 + 8.4 + 7.2 = 24 in (213 + 213 + 183 = 610 mm, rounding up).

Additional Considerations for Video Displays

Along with the planning required for any eW Accent MX Powercore installation, planning for video displays involves additional considerations such as pixel pitch, minimum and maximum viewing distances, sampling, and display resolution.

Determining Pixel Pitch and Viewing Distances for Video Displays

In a video display, each fixture node functions as a pixel in the display. Planning for low-resolution video displays involves designing a layout for your eW Accent MX Powercore fixtures that determines the pixel sizes and places the pixels close enough together to accommodate video at acceptable minimum and maximum viewing distances.

Images on an LED video display appear to be sharper to the human eye as the distance to the display increases. Likewise, images appear less visible as the distance decreases. The spacing between pixels, known as the *pixel pitch*, determines the minimum and maximum viewing distances for discernible video output.

Pixel pitch is measured center-to-center. In an eW Accent MX Powercore fixture, where there may be no black space between pixels, you determine pixel pitch by measuring from the center of one pixel to the center of the next.

There are number of ways of adjusting pixel pitch using eW Accent MX Powercore fixtures:

• You can separate pixels within a single fixture by configuring the video display so that every other fixture pixel is black.

• You can separate pixels horizontally between fixtures by using jumper cables.

• You can separate pixels vertically between fixtures by spacing your fixture runs.

The following calculations and examples are general guidelines for determining minimum and maximum viewing distances, based on video displays using grids of evenly spaced pixels:

• To determine the minimum viewing distance, multiply the pixel pitch by 100 distance units. For example, if the pixel pitch is 50 mm, the minimum viewing distance is 5 m (16.4 ft).

• To determine the maximum viewing distance for discernible video, multiply the screen height by 20 distance units. For example, if the screen height is 20 m (65.6 ft), then the maximum viewing distance for recognizable video is 400 m (1312.3 ft).

• LED screens are visible beyond the maximum viewing distance for discernible video. To determine the maximum viewing distance that still creates visual impact, multiply the screen height by 50 units. For example, a screen 20 m (65.6 ft) high will continue to create visual impact at 1000 m (3280.8 ft).

Working with Video Display Resolutions

The resolution of an LED video display equals the total number of vertical and horizontal pixels — the greater the pixel count, the greater the resolution.

• The resolution of VSE digital video is 1024 x 768

• The resolution of PAL video is 704 x 576

• The resolution of NTSC video is 704 x 480

Pixel Pitch
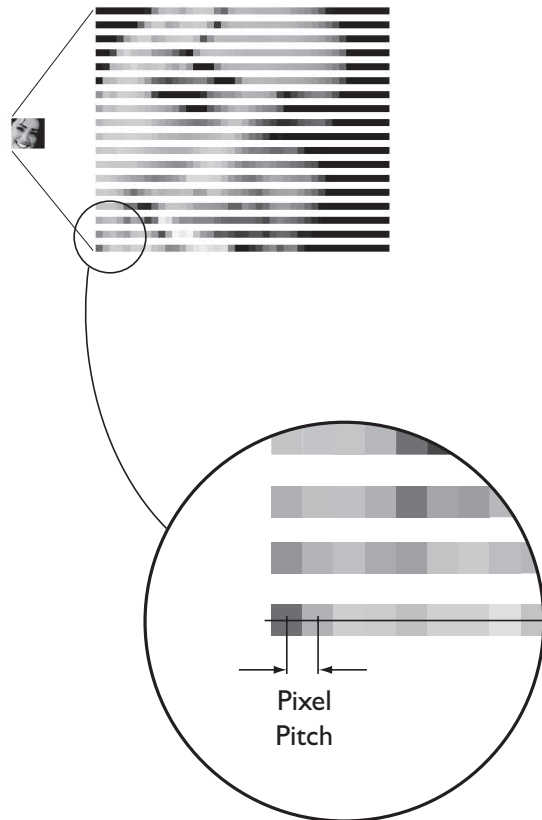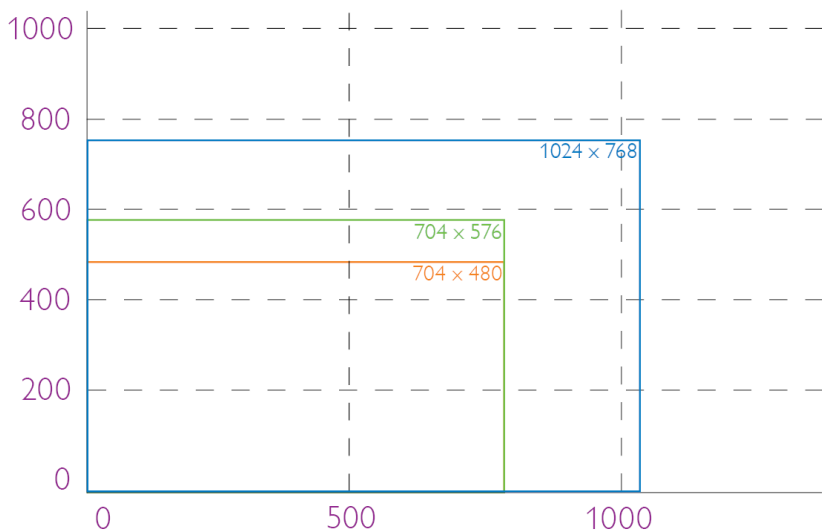
VSE Pro, or Video System Engine Pro, is the hardware component of Video System Manager Pro, an integrated video controller from Philips Color Kinetics. Visit www.philipscolorkinetics.com/ls/controllers/vsmpro/ for complete information.

Reproducing a video signal with 1:1 pixel mapping on an LED display requires a substantial pixel count. For example, true NTSC video output requires 337,920 pixels, PAL output requires 405,504 pixels, and digital video output requires 786,432 pixels.

However, you can use a controller such as Philips Video System Manager Pro to reduce the required pixel count for any video format by sampling and distributing pixels from the source video to match your installation.

For example, if you retain the horizontal resolution of a digital video source (1024 lines wide), but sample every tenth line of pixels vertically (76 lines high instead of 768 lines), you can retain the correct aspect ratio while exponentially reducing the pixel count. From a distance, even with only 76 lines of vertical output, the human eye can still discern video images because the horizontal resolution is dense.

An installation using 1024 x 76 nodes would have a pixel count of 77,824 yet still display high-quality digital video output. This method is especially effective when creating an installation that covers a building which, by necessity, already has spacing between lines of video due to windows and other architectural features.

You can reduce pixel count either horizontally or vertically by using jumper cables to add space between eW Accent MX Powercore fixtures. As in the above example, you would sample and distribute pixels from the source video to match the pixel size and spacing of your installation.

Create a Lighting Design Plan and Layout Grid

Even for relatively simple installations, it's good practice to create a lighting design plan that identifies your fixtures, records their IP addresses and node sizes, and identifies their locations and the locations of other required hardware. For complex installations displaying light shows with dynamic effects, and especially for Ethernet-based video displays, a detailed lighting design plan is essential.

A lighting design plan is typically an architectural diagram or other diagram that shows the physical layout of the installation, including the appropriate positioning and spacing of all required fixtures, power sources, controllers, and cables. Some professional video content companies specialize in creating video designs and supporting lighting design plans.

Keep the following considerations in mind when creating a lighting design plan and layout grid:

1. Determine the appropriate location of each Data Enabler Pro in relation to the fixtures, and of the fixtures in relation to each other.

    You connect the first fixture in a series to a Data Enabler Pro with a 50 ft (15.2 m) Leader Cable. Refer to the Data Enabler Pro Installation Instructions or Product Guide for guidelines on configuring and positioning the Data Enabler Pro in relation to the controller or Ethernet switch.

2. eW Accent MX Powercore fixtures are installed in series. The in-line connectors allow end-to-end fixture connections for the best visual effects. When connected end-to-end, fixtures can be installed as close as .38 in (10 mm) apart. When you need to separate fixtures by more than this amount, use the 1 ft (305 mm). 2 ft (610 mm), 5 ft (1.5 m), or 10 ft (3 m) jumper cables.

Minimum distance between fixtures

.38 in (10 mm)
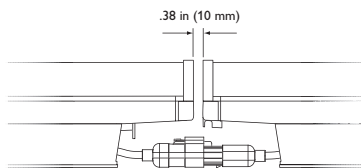
❋ Using jumper cables may decrease the number of fixtures you can connect in a run. For help calculating the number of fixtures your specific installation can support, download the Configuration Calculator from www.philipscolorkinetics.com/ support/install_tool/, or consult Philips Application Engineering Services at support@colorkinetics.com.

3. Each run of fixtures can include a maximum of 25 fixtures. Total run length, including fixtures, Leader Cable, and Jumper Cables, must not exceed 300 ft (91.4 m).

300 ft (91.4 m) maximum length
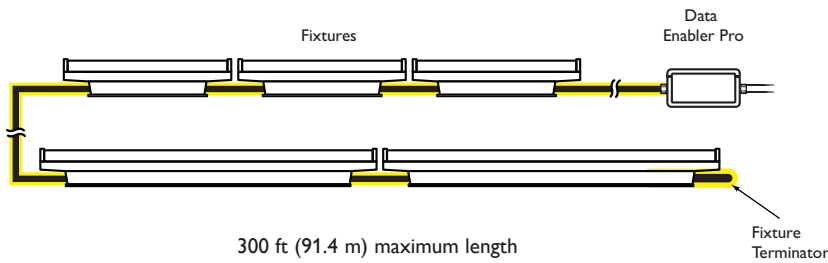
4. Connectors are gender-specific. Since the Leader Cable has a female connector, all lights in a run must be installed with their male connectors facing toward the Data Enabler Pro.

5. On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, power supplies, fixtures, and leader and jumper cables.

Start the Installation

1. Install all Data Enabler Pro devices, including any interfaces with controllers. One Leader Cable is required to connect each run or series of fixtures to a Data Enabler Pro. Data Enabler Pro sends power and control signals to the fixtures over the Leader Cable.

2. Verify that all additional supporting equipment (switches, controllers) is in place.

3. If your installation calls for Jumper Cables to add space between fixtures, make sure they are available.

4. Ensure that all additional parts (#10 mounting screws suitable for the mounting surface, clamps, truss, terminators) and tools (screwdrivers, pincers or pliers) are available.

❋ For complete instructions on how to wire the Data Enabler Pro, refer to the Data Enabler Pro Installation Instructions or Product Guide. For sample wiring diagrams, visit www.philipscolorkinetics.com/support/wiring/ls_prod.html.

Unpack and Prepare Fixtures

1. Carefully inspect the box containing eW Accent MX Powercore and the contents for any damage that may have occurred in transit.

2. Each eW Accent MX Powercore fixture has an onboard Ethernet switch and comes pre-programmed with a unique IP address. As you unpack the fixtures, record the IP addresses in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.

Included in the fixture box

| |
|---|
| eW Accent MX Powercore fixture |
| Installation Instructions |
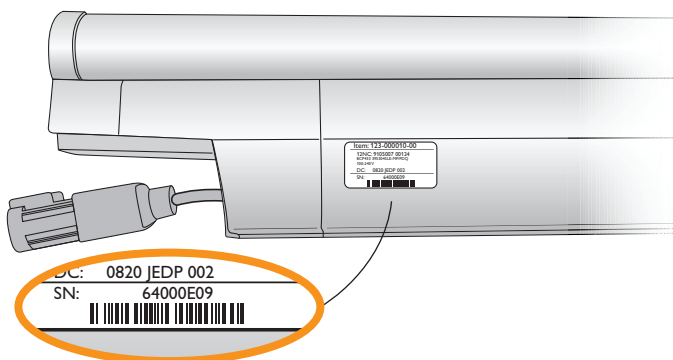
3. Assign each fixture to a position in the lighting design plan.

4. To streamline installation and aid in light show programming, you can affix a weatherproof label identifying the order or placement in the installation to an inconspicuous location on each light fixture's housing.
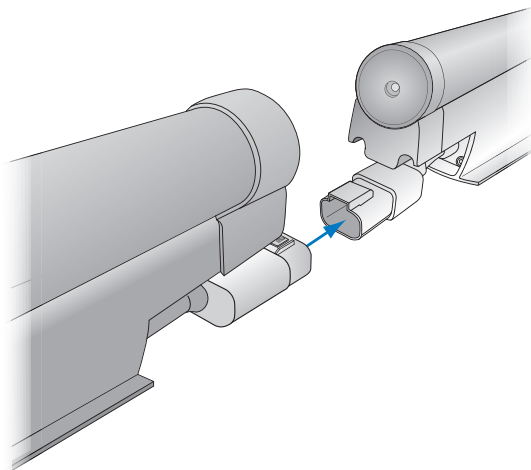
Mount and Connect Fixtures

Make sure the power is OFF before mounting and connecting eW Accent MX Powercore fixtures.

1. Position the first fixture in a series and attach it with #10 mounting screws suitable for the mounting surface. Ensure that the male connector is in a position to receive data and power from the Leader Cable.
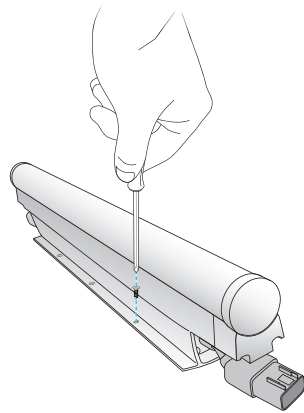
2. Position the next fixture in the series, matching the male connector end to the female connector of the previously mounted fixture. The flexible connector cables allow for up to 180° turns.

3. Continue mounting the fixtures, making power / data connections as you go, until all lights in the series are mounted.

4. Insert the provided fixture terminator into the last fixture in the series.
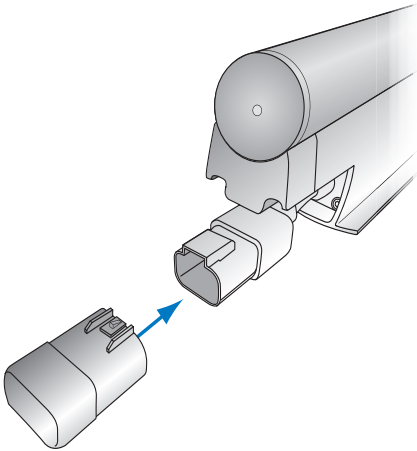
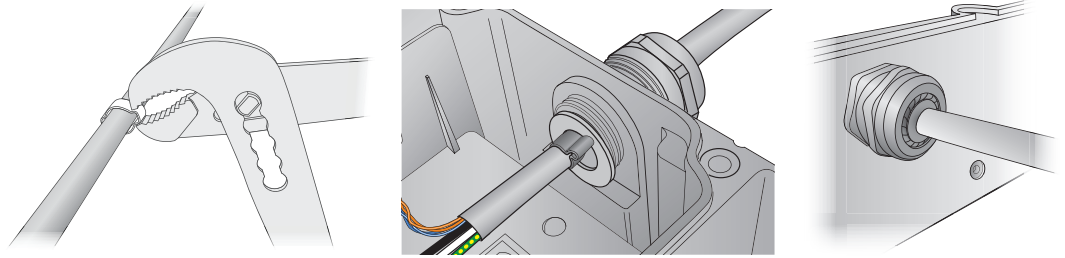5. Connect the Leader Cable to the first fixture in the series.
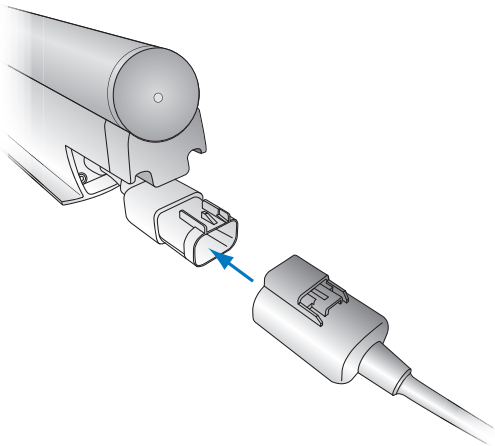
6. Make Data Enabler Pro connections:

   • Remove the Data Enabler Pro cover.

   • Attach a strain relief fitting to the Data Enabler Pro. Apply RTV silicone between fitting and enclosure, and insert the Leader Cable through strain relief fitting, washer, and ear clamp. Route the Leader Cable to its final destination in the Data Enabler Pro enclosure.
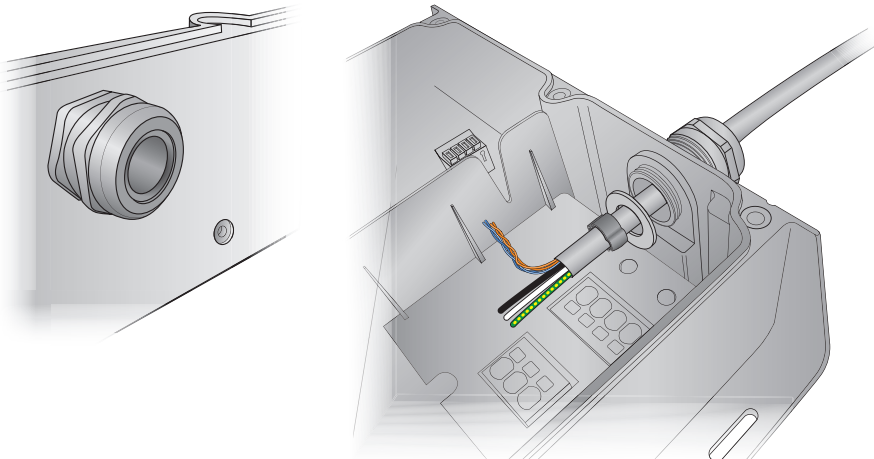
- Position the ear clamp near the opening. Crimp both ears of the ear clamp uniformly around the Leader Cable with pincers or pliers. Tighten the strain relief nut, compressing the fitting snugly around the Leader Cable.

- Inside the Data Enabler Pro housing, connect the Leader Cable's data wires to the 4-wire IDC terminal block, and the line, neutral, and ground wires to the fixture cable 4-wire terminal block.

✱ *Refer to the Data Enabler Pro Product Guide for comprehensive installation and configuration instructions. You can view or download the guide from www.philipscolorkinetics.com/ls/pds/ dataenablerpro*

Output

Input
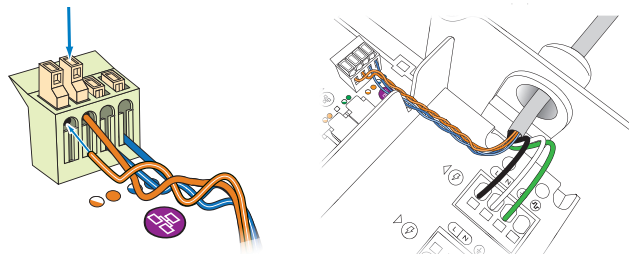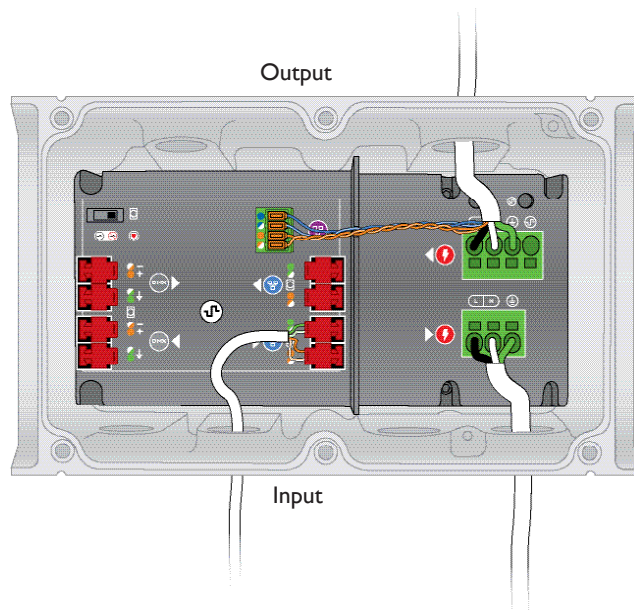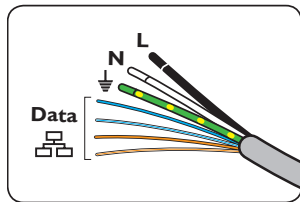
Controlling eW Accent MX Powercore Fixtures

Philips Color Kinetics offers a number of control options for eW Accent MX Powercore fixtures, from simple to complex.

Displaying Fixed Light Output

For installations in which you want to manually adjust the brightness and color temperature of all fixtures in unison, use the Fixed White effect in iColor Player, ColorDial Pro or iColor Keypad. With these controllers, no fixture addressing or configuration is necessary.

ColorDial Pro and iColor Keypad are a Power-Over-Ethernet (PoE) devices that require a PoE switch, or a conventional Ethernet switch with a PoE injector. Refer to the ColorDial Pro or iColor Keypad documentation for details on how to install and use these controllers with eW Accent MX Powercore fixtures.

Displaying Dynamic Light Output

For dynamic installations in which you want to display different light output on different eW Accent MX Powercore nodes simultaneously, you can use an RGB-based DMX or Ethernet controller such as iPlayer 3 or Light System Manager. To support dynamic effects that automatically modify the brightness of individual nodes, you address and configure eW Accent MX Powercore nodes in much the same way as you address and configure color-changing iColor Accent MX Powercore nodes.

In an eW Accent MX Powercore node, the red and green DMX channels work together to control a node's brightness, while the blue DMX channel is not used. Note that although the blue channel is not used, it is *assigned*, so that each eW Accent MX Powercore node uses three DMX addresses.

eW Accent MX Powercore nodes are addressed using *light numbers*. A light number corresponds to three sequential DMX addresses. Light number 1 corresponds to DMX addresses 1, 2, and, 3; light number 2 corresponds to DMX addresses 4, 5, and 6; light number 3 corresponds to DMX addresses 7, 8, and 9; and so on. Since a DMX universe consists of 512 DMX addresses, there are 170 light numbers per universe (170 x 3 = 510, with two DMX addresses left over).

eW Accent MX Powercore fixtures have variable node sizes, ranging from 1.2 in (30 mm) to the entire length of the fixture (2 ft or 4 ft). A single eW Accent MX Powercore fixture, therefore, uses from 1 to 40 light numbers (3 to 120 DMX addresses), depending on configuration.

eW Accent MX Powercore fixture nodes are assigned light numbers consecutively, beginning with the starting light number assigned to the fixture. For instance, if you set a 2 ft fixture to have 20 1.2 in nodes and light number 22, the fixture is automatically assigned 60 DMX addresses, 64 – 123 (light numbers 22 – 41). If you set a 4 ft fixture to have one 4 ft node and starting light number 134, the fixture is automatically assigned three DMX addresses, 400 – 402. eW Accent MX Powercore fixtures are factory-configured with a starting light number of 1 and the largest node size — that is, each fixture is configured to use DMX addresses 1, 2, and 3 and to function as a single node.

Because it eliminates the addressing limitations of DMX, Ethernet is preferred for lighting installations that display intricate effects requiring hundreds or thousands of individually addressable nodes. In Ethernet networks, each fixture is identified by a unique IP address and effectively functions as its own DMX universe. As long as all eW Accent MX Powercore IP addresses are unique within an installation, the set of DMX addresses assigned to a given fixture is unique within the installation.

When using RGB effects to dynamically control eW Accent MX Powercore nodes, set the saturation of all colors to 0% to ensure that the red and green LED channels are working in unison.
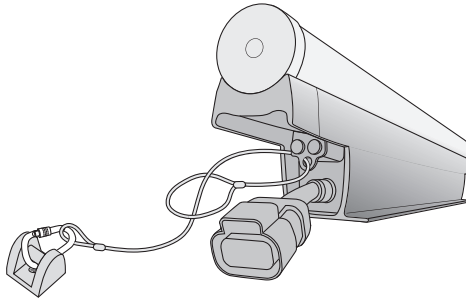
- In DMX installations, you can set fixture node size (pixel resolution) and starting light number using QuickPlay Pro with a computer connected directly to a Data Enabler Pro device using a standard Ethernet cable or Ethernet crossover cable.

- In Ethernet installations, you can address and configure fixtures using QuickPlay Pro with a computer connected to an Ethernet switch in your lighting network. QuickPlay Pro automatically discovers all eW Accent MX Powercore fixtures for quick configuration. Alternatively, you can address fixtures using an Ethernet controller such as Light System Manager or Video System Manager Pro.

For complete details on addressing and configuring eW Accent MX Powercore fixtures, refer to the *Addressing and Configuration Guide*.

Attach Safety Cable (Optional)

When dictated by local or state code or advised by a structural engineer, attach a safety cable to the eW Accent MX Powercore fixture housing and tether it to a secure anchor point.

Safety cable minimum requirements

Material	304 or 316 Stainless Steel
Size	1/8 in (3.2 mm) nominal diameter. Minimum break load must be greater than 2,100 lb (953 kg)

1. Thread a safety cable through the fixture housing as shown.

2. Attach the safety cable to the mounting surface using a method that follows the code or engineer's requirements.