

Lighting Playback Controller

The Pharos LPC (Lighting Playback Controller) is an award-winning, all-in-one control solution for themed entertainment and LED lighting installations. It features individually controllable and independently running timelines and scenes, letting you build dynamic, precise, fully customisable pre-programmed lighting effects with the freedom of real-time manual overrides and the versatility of powerful show control and integration features.





LPC Features



Designer Engine

The intelligent Designer Engine gives you complete control of your installation. Based on individually controllable and independently running timelines and scenes, it lets you build dynamic, precise, fully customisable pre-programmed lighting displays, all while giving you the freedom of real-time manual overrides, flexible multi-zone control, prioritisation and more.



Designer Trigger

Timing is everything. Whatever the stimulus, Designer Trigger can handle it. You can control your lighting with responsive, reactive programming. Designer Trigger is a rules engine that uses conditional logic and a broad range of interfaces and protocols. Send and receive any command, to and from any system. Conditional logic is supported, along with a powerful built-in scripting language for unlimited flexibility.



Flexible

Be limited by your design brief, not your control system. Our products support a vast range of different fixture types and can output multiple DMX-over-Ethernet (eDMX) lighting protocols at the same time. No other system gives you this level of flexibility and control over your project.



Custom Interfaces

Create a custom web interface for your installation that gives your users the control they need and the look they expect. Our built-in web server supports an extensive JavaScript and HTTP API and access control with multiple user levels.



Remote Management

Future-proof your lighting projects by connecting your Designer controllers to Pharos Cloud. This allows direct control of your Controllers from anywhere in the world, letting you check all of your Controllers' statuses, inputs and outputs, firing triggers, scheduling events, uploading new projects and much more. All Pharos Designer Controllers also have their own Web Interface that can be accessed on a local area network that provides real-time statuses, access to the full log and the ability to fire triggers on the controller.



Designer Mapping

Design the big picture; control every pixel. Create a map of your fixtures within the Designer software, then use Designer Mapping to create visually striking effects or play video across the entire array. Powerful controls allow you to build maps fast with pixel-precise adjustment. Multiple maps can be created to support different zones or for modelling different views of your installation.



Scalable

The right fit for every installation. Multiple Pharos Designer Controllers can be seamlessly linked together to work as one via a standard Ethernet network giving impressive scalability. For additional integration options simply add Remote Devices to further extend the network. Whether one Controller or many, it's all easily programmed using our Designer software.



Pharos Designer

Programmed and configured using the free Pharos Designer software – available for Windows or Mac OS X – with upload over Ethernet.



Reliable

Hardware and firmware are self-sufficient, so no PC needs to be left on site. Rugged, compact unit designed for 24/7 operation and reliability.



Installer Friendly

Made for permanent installation, with installer-friendly connectors and easy DIN rail mounting.



Supported Fixtures

LEDs in any colour configuration (RGB, RGBW, 8-bit, 16-bit, tuneable **LEDs**

Automated Moving heads, yokes or scanners

Generic Downlights, spotlights, uplights, etc. via controllable dimmers, relays

or ballasts

Fountain Jets Fountain jets for fountain animation or other animatronics Pharos offers a cloud library with over 20,000 fixture profiles, for **Fixture Library**

easy download of your luminaires

Output

DMX512 2 ports (max 512 channels each) USITT E1.11-2008 **RDM** Supports discovery and addressing via Designer software

USITT E1.31 (with per fixture priority) standard **sACN**

Art-Net ArtNet, ArtNet II and ArtNet III (configurable broadcast override) KiNET V1 (DMX out) and V2 (Port out); PDS/Data Enabler **KINET**

discovery

Pathport Pathway Connectivity protocol

Via RIO D DALI

Synchronises with up to 40 Pharos Designer Controllers over Scalable

network

Multiple protocols can be in operation simultaneously. Limited by Simultaneous

patched channels, not universes used

Can natively integrate with and output DMX through the ports of the **EDN**

SPI Supports synchronous and asynchronous serial data output via the

EDN+SDI

Triggering & Integration

Startup Commences programmed playback automatically on receiving power Connect an external volt-free switch between input and ground **Contact Closures**

(internal 2.2k pull-up to 5V)

Digital In Connect an external voltage source between input and ground (24V

maximum; internal 2MOhm pull-down to 0V); software configurable

low/high threshold

Connect an external voltage source between input and ground (24V **Analog In**

maximum); software-configurable range

Battery-backed real-time clock for calendar and time-based triggers Clock

Astronomical Sunrise/Sunset/Twilight and Lunar phases

UDP, TCP, Multicast; send/receive any Ethernet message Ethernet

Serial Data RS232, RS485; configurable port; send/receive free syntax in ASCII,

HFX or decimal

MIDI Notes, SysEx or Timecode MIDI

Linear Timecode via RIO A (SMPTE, Film, EBU, NTSC) **Timecode**

Audio Level Stereo 30-band spectrum analysis via RIO A

Trigger on changes within a range or entering a range **DMX** eDMX sACN or Art-Net (option to pass-thru on local DMX output)

DALI Trigger on any message, via RIO D Web Interface Built-in or custom designed **Wall Stations** Integrate with BPS, TPS or TPC **Conditions** Full conditional logic support Scripting Lua scripting for total flexibility

Scalable Supports Pharos Designer Remote Devices

Supports our extensive IO Module library for easy integration **IO Modules**

Interfaces

Ethernet RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs;

Static IP or DHCP; Dual IP address for eDMX Two isolated DMX ports, RDM compatible *

DMX512 RS232 / RS485 / DMX in * Serial

Eight inputs, individually selectable operating mode for contact Inputs

closure, digital or analogue input * MIDI via 5-pin DIN 41524 socket MIDI In & Out

USB-B socket USB 1.1 for connection to PC **Specifications**

Power 9V to 48V DC * or PoE (IEEE802.3af, Class 2)

4W typical

Data Storage Removable SD Card (supplied) **Temperature** 0°C to 50°C (32°F to 122°F) Humidity 10-50% relative, non-condensing

IP40 **Ingress**

8 unit wide DIN rail mounting enclosure **Physical**

(DIN43880 / EN60715 (35/7.5 rail))

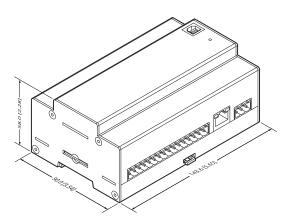
0.5 kg (1.1 lbs)

Shipping 20 x 15 x 12 cm (8" x 6" x 5")

0.8 kg (1.8 lbs)

Recovery Hardware watchdog and recessed reset

* Install-friendly 0.200" (5.08mm) plug in rising clamp connectors (included)



Order Code & Variants

Designer Lighting Playback Controller 1 (512 LPC 1

channels DMX/eDMX)

LPC 2 Designer Lighting Playback Controller 2

(1,024 channels DMX/eDMX)

LPC 4 Designer Lighting Playback Controller 4 (2,048 channels eDMX, 2 local DMX ports)

Warranty & Certifications

Warranty

5 years

Certifications

CE compliant, UKCA compliant, ETL/cETL listed, may be used as part of a Title 24 compliant lighting control system.













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