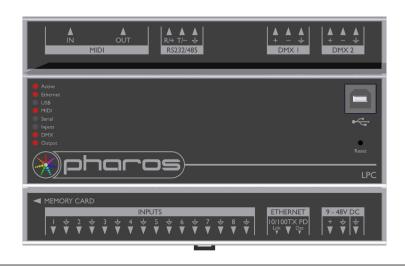


Overview

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.



Features



Pharos Engine

The intelligent Pharos 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.



Pharos Mapping

Design the big picture; control every pixel. Create a map of your fixtures within the Designer software, then use Pharos 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.



Pharos Trigger

Timing is everything. Whatever the stimulus, Pharos Trigger can handle it. You can control your lighting with responsive, reactive programming. Pharos 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.

Scalable

The right fit for every installation. Multiple Pharos 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.

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.

Remote Management

The control you need in your browser - from anywhere. Pharos Controllers can be connected to a network, making it possible for you to remotely manage your installation. The built-in web server lets you check the Controller's status, inputs and outputs, trigger timelines, view a full history log and much more.

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 API and access control with multiple user levels.

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.

5 Year Warranty

Designed and manufactured in the UK, with quality and reliability our top priority.

Certifications

CE compliant, ETL/cETL listed, and California Title 20/24 compliant.















Supported Fixtures

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

tuneable white)

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 13,000 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

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

Art-Net ArtNet, ArtNet II and ArtNet III (configurable broadcast override)

KiNET V1 (DMX out) and V2 (Port out); PDS/Data Enabler **KINFT**

Pathport Pathway Connectivity protocol **DALI** Via RIO D (supplied separately)

Scalable Synchronises with up to 40 Pharos Controllers over network Multiple protocols can be in operation simultaneously. Limited by **Simultaneous**

patched channels, not universes used

Triggering & Integration

Startup Commences programmed playback automatically on receiving

Contact Closures Connect an external volt-free switch between input and ground

(internal 2.2k pull-up to 5V)

Connect an external voltage source between input and ground Digital In

(24V maximum; internal 2MOhm pull-down to 0V); software-

configurable low/high threshold

Connect an external voltage source between input and ground Analog In

(24V maximum); software-configurable range

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

triggers

Astronomical Sunrise/Sunset/Twilight and Lunar phases

UDP, TCP, Multicast; send/receive any Ethernet message **Ethernet** RS232, RS485; configurable port; send/receive free syntax in **Serial Data**

ASCII, HEX or decimal

MIDI MIDI Notes, SysEx or Timecode

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

Audio Level Stereo 30-band spectrum analysis via RIO A

DMX Trigger on changes within a range or entering a range **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 or TPC Conditions Full conditional logic support **Scripting** Lua scripting for total flexibility Scalable Supports Pharos Remote Devices

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 Serial RS232 / RS485 / DMX in *

Eight inputs, individually selectable operating mode for contact Inputs

closure, digital or analogue input *

MIDI In & Out MIDI via 5-pin DIN 41524 socket **USB-B** socket USB 1.1 for connection to PC

Specifications

Certifications CE compliant, ETL/cETL listed 9V to 48V DC * or PoE (IEEE802.3af, Power

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

Ingress IP40

Physical 8 unit wide DIN rail mounting enclosure

(DIN43880 / EN60715 (35/7.5 rail))

0.5 kg (1.1 lbs)

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

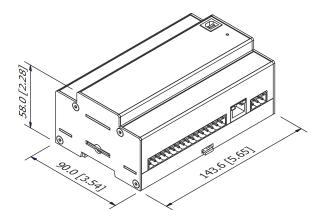
0.8 kg (1.8 lbs)

Recovery Hardware watchdog and recessed reset

Warranty 5 years

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

clamp connectors (included)



Order Code & Variants

LPC 1 Lighting Playback Controller 1 (512

channels DMX/eDMX)

LPC 2 Lighting Playback Controller 2 (1,024

channels DMX/eDMX)

LPC 4 Lighting Playback Controller 4 (2,048

channels eDMX incl 1,024 ch DMX)

