

## OVERVIEW

The Pharos control solution has two complementary parts: the Controllers (LPC, AVC), which form a permanent part of the installation, and the Designer software which runs on any personal computer and is only required when creating or modifying the project.

The Pharos Lighting Playback Controllers (LPC) are timeline-based, with a particular timeline having control data for one, some or all the lighting fixtures being controlled. Multiple timelines are supported and so a single unit can control multiple distinct zones, or more complex presentations can be programmed with external triggers coming from multiple systems.

The LPC can run stand alone, triggered from its internal realtime and astronomical clocks, or be triggered remotely via Ethernet, RS232/485 serial (including DMX), MIDI, digital/analog inputs, Pharos Remote Devices or web browser. Conditional logic, variables and scripts provide powerful show control functionality.

The LPCs are provided in a compact DIN-rail compatible housing for mounting within an electrical cabinet, or alternatively they can be wall-mounted. For easy installation most connections are provided as plug-strips. The solid state design with efficient, embedded firmware ensures unparalleled reliability. This hardware is a revision of the original award winning platform, featuring enhanced connectivity and improved performance.

Multiple units can be used together for larger installations and synchronized automatically over Ethernet. The units have an internal web interface giving status and configuration information for remote monitoring, and either Ethernet or USB can be used to connect to the PC running the Designer software during programming.

## KEY FEATURES

- Provides a reliable, fully integrated and remotely managed control solution.
- Programmed and configured using the Pharos Designer software.
- Triggering and show control via Ethernet, RS232/RS485, DMX, MIDI and digital/analog inputs.
- Supports RDM discovery and addressing.
- Pixel accurate timeline programming and pixel-mapped media support.
- Algorithmic, realtime playback engine ideally suited to interactive control.
- Integrated realtime and astronomical clock functionality with daylight saving support.
- Use multiple units connected and synchronised over Ethernet to scale to larger presentations.
- Integrates with other Pharos Controllers (TPC, LPC X, AVC) and Remote Devices (RIO, BPS).
- Integrated web interface for remote management, custom pages supported.
- Removable SD memory card data storage.
- Solid state, instant-on, fit & forget solution.

## VERSIONS

There are three versions of the Lighting Playback Controller:

**LPC 1:** 512 control channels (DMX512 and eDMX protocols).

Part Number: LPC 1

**LPC 2:** 1024 control channels (DMX512 and eDMX protocols).

Part Number: LPC 2

**LPC 4:** 2048 control channels (up to 1024 using DMX512 or 2048 using eDMX protocols).

Part Number: LPC 4



## SPECIFICATIONS

### General:

- Microprocessor based system specifically designed for the control of lighting in an architectural or entertainment application.
- Project data stored in non-volatile solid-state memory, uploaded from a remote personal computer over an Ethernet, USB or web connection.
- Operating System stored in non-volatile solid-state memory, remotely updated when necessary from a personal computer over an Ethernet or USB connection.
- Commences playback automatically on receiving power without additional external trigger.
- Internal realtime clock operates when power is absent.
- Integrated web interface.
- 5 year warranty.

### Physical:

- Enclosure and mounting complies with DIN43880 and EN60715 (35/7.5 rail) respectively.
- 8 unit wide DIN enclosure.
- Operating temperature range 0°C to 50°C (32°F to 122°F).
- CE compliant and ETL/cETL listed.

### Electrical:

Supports the following wire terminations on 0.200" [5.08mm] plug-in rising clamp terminals (supplied):

- 9V to 48V DC power.\*
- Isolated DMX512 ports, RDM compatible (2).
- RS232/485 serial port.
- Individually selectable digital or analog inputs (8).
- Tri-mode digital inputs: active high, low or contact closure.

In addition there are the following standard connectors:

- RJ45 socket for 10/100Base-TX Ethernet
- IEEE 802.3af PoE powered device.\*
- USB-B socket for USB 1.1.
- 5-pin DIN socket for MIDI In.
- 5-pin DIN socket for MIDI Out.

\* Unit may be powered either via DC input or PoE.

\* Typical power consumption 4W.

