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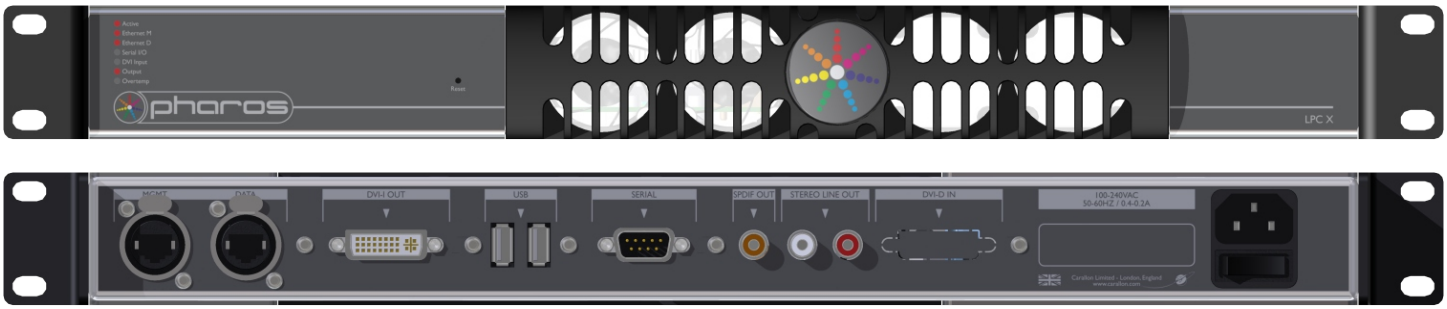
OVERVIEW

More than ever before, sophisticated colour-changing lighting is being used in architecture to highlight great landmarks, promote corporate brands and enhance urban environments. Some of these lighting installations are on a truly massive scale made possible by the availability of durable and energy-efficient LED fixtures.

These very large projects pose a number of control challenges. Firstly, there is the sheer volume of control required and the need for it to be synchronised across all the fixtures. Secondly, these installations often involve a variety of different technologies that need to work together; perhaps a mixture of DMX alongside Ethernet-based protocols as well as systems requiring control in the form of video. Thirdly, there will typically be very specific show control requirements, anything from basic changes of state throughout the day to control via text messaging and a need for remote management of the system over a network. Finally, in any large-scale installation, there is an absolute requirement for reliability and continuous operation over long periods.

The LPC X is designed to meet the unique needs of these large landmark projects. It is available in capacities ranging from 10 DMX universes up to 100 DMX universes from a single unit with further scaling by using multiple units connected and synchronised over Ethernet.



KEY FEATURES

- Provides a reliable, fully integrated and remotely managed control solution.
- Programmed and configured using the Pharos Designer software.
- Channel capacity variable to suit application and budget.
- Data output & triggering via Ethernet protocols (see below).
- Digital video output via DVI-I.
- Simultaneous multi-protocol Ethernet and digital video output.
- Optional DVI-D input for live video, pixel-mapped in real time.
- 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 systems
- Integrates with other Pharos Controllers (LPC, TPC) and Remote Devices (RIO, BPS).
- Integrated web interface for remote management, custom pages supported.
- 16GB SSD storage.
- Rugged, solid state design - no CPU fan, no hard disc drives.

INTERFACES

- 2x Gigabit Ethernet ports; one for system integration, the other for data output.
- 1x DVI-I output port for monitoring or video mapped fixtures.
- 1x RS232 port for 3rd party system integration (eg. sensors, projectors).
- 2x USB 2.0 ports.
- 1x stereo analog port & digital audio port (future development).
- 1x DVI-D input port for digital video input (optional).

PROTOCOLS

- Art-Net II & III.
- KiNET (V1 & V2).
- Pathport.
- sACN.

MODELS

Part number:	Max capacity:
LPC 10	5,120 channels
LPC 20	10,240 channels
LPC 30	15,360 channels
LPC 40	20,480 channels
LPC 50	25,600 channels

Part number:	Max capacity:
LPC 60	30,720 channels
LPC 70	35,840 channels
LPC 80	40,960 channels
LPC 90	46,080 channels
LPC 100	51,200 channels

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 or web connection.
- Operating System stored in non-volatile solid-state memory, remotely updated when necessary from a personal computer over an Ethernet 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:

- 1U 19" rack unit, 13.5" [342.9mm] deep.
- 3.1kg [6.8lbs].
- Operating temperature range 0°C to 50°C [32°F to 122°F].
- **CE** compliant and **ETL/cETL** listed.

- Supply requirements 100-240VAC / 50-60HZ / 0.4-0.2A.
- Typical power consumption 40W (LPC 100).