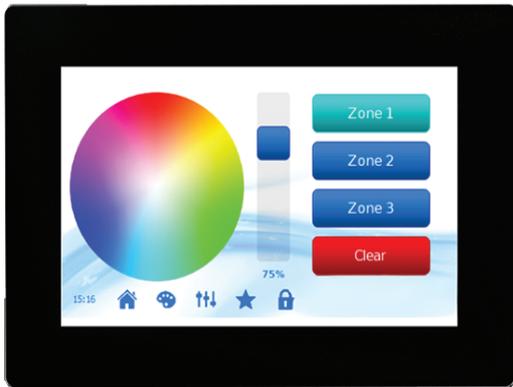


TPC touch screen & LPC controller DMX 2 Universe (A64691)



Touch panel controller

The TPC (Touch Panel Controller) is an elegant lighting controller with a customisable, 4.3" capacitive touchscreen, 512 channels of eDMX output and vast interfacing potential, all over a single Power-over-Ethernet (PoE) network connection. TPCs are available in a range of different coloured bezels and overlays.

TPC Features



Touch Interface

A 4.3" vivid colour capacitive touchscreen makes navigating your project's controls appealing and intuitive. It's quick and easy to activate presets, manual overrides, or use a custom colour picker to personalise your lighting. The TPC puts control of your Pharos Designer system at your fingertips.



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.



Scalable

The right fit for every installation. Multiple 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.



Remote Management

Future-proof your lighting projects by connecting your Designer controllers to 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 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.



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.



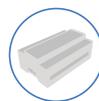
Pharos Designer

Programmed and configured using the free Designer software – available for Windows or macOS – 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.



EXT

DIN rail mounting companion product provides PoE power, DMX and DALI outputs, RS232 serial and 8 digital/analog inputs for triggering and integration.

TPC touch screen & LPC controller DMX 2 Universe (A64691)

Output

sACN	ANSI E1.31 (with per fixture priority) standard
Art-Net	Art-Net I, Art-Net II and Art-Net 3. Configurable broadcast override
KiNET	KiNET V1, V2, V3; PDS/Data Enabler discovery
Pathport	Pathway Connectivity protocol
DMX512	Via EXT or second port on LPC 1
RDM	Via Art-Net, EXT or EDN: supports discovery and addressing via Designer 2 software
EDN	Via EDN: natively integrate, and output DMX, with the EDN
SPI	Via EDN+SDI: synchronous and asynchronous serial data output
DALI	Via EXT or RIO D
Simultaneous	Multiple protocols can be in operation simultaneously. Limited by patched channels, not universes used
Scalable	Synchronises with up to 40 Pharos Designer Controllers over network

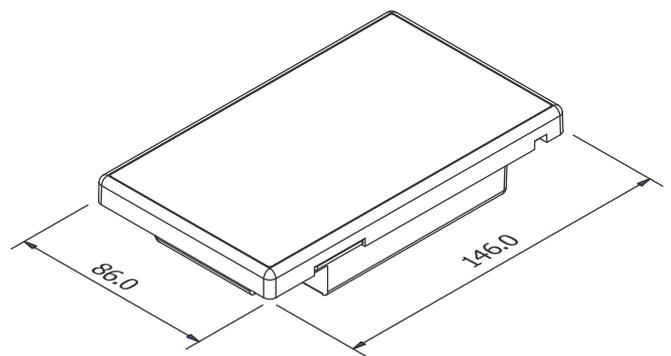
Technical Data

Power	PoE (IEEE802.3af, Class 2), 4W typical
Configuration	Designer 2
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	Wall mounted, partly recessed in UK 2-gang 35mm or custom US 2.5" backbox (supplied separately) 14.6 x 8.6 x 3.2 cm (5.8 x 3.4 x 1.3 in) 0.25 kg (0.55 lbs)
Shipping	20 x 15 x 12 cm (8 x 6 x 5 in) 0.6 kg (1.3 lbs)
Recovery	Hardware watchdog and recessed reset button

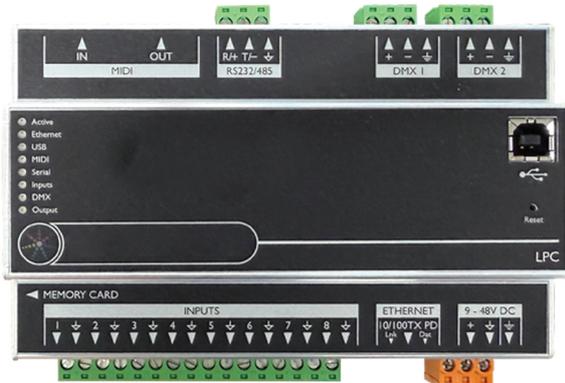
Interfaces

Ethernet	RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP; Dual IP address for eDMX
Touchscreen	4.3" capacitive touch, 480x272 24bpp; 340 cd/m2; magnetic overlay
IR Sensor	Learning IR sensor for remote control
Temperature	Built-in ambient temperature sensor

TPC dimensions



TPC touch screen & LPC controller DMX 2 Universe (A64691)



Lighting Playback Controller

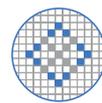
The LPC (Lighting Playback Controller) is an award-winning, all-in-one control solution for themed entertainment and LED lighting installations. It features individually controllable and independently running timelines and scenes, letting you build dynamic, precise, fully customisable pre-programmed 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 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.



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.



Scalable

The right fit for every installation. Multiple 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.



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.



Pharos Designer

Programmed and configured using the free Designer software – available for Windows or macOS – with upload over Ethernet.



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.



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.



Remote Management

Future-proof your lighting projects by connecting your Designer controllers to 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 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.



Installer Friendly

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

TPC touch screen & LPC controller DMX 2 Universe (A64691)

Supported Fixtures

LEDs	Any colour configuration e.g. RGB, RGBW, 8-bit, 16-bit, tuneable white
Generic	Downlights, spotlights, uplights, etc. via controllable dimmers, relays or ballasts
Intelligent	Moving and multi-parameter fixtures
Fountain Jets	Fountain jets for fountain animation or other animatronics
Fixture Library	Offers a cloud library with over 30,000 fixture profiles, for easy download of your luminaires

Output

DMX512	2 ports (max 512 channels each) USITT E1.11-2008
RDM	Via local ports or Art-Net, supports discovery and addressing via Designer 2 software
sACN	USITT E1.31 (with per fixture priority) standard
Art-Net	Art-Net I, Art-Net II and Art-Net 3. Configurable broadcast override
KiNET	KiNET V1, V2, V3; PDS/Data Enabler discovery
Pathport	Pathway Connectivity protocol
EDN	Via EDN: natively integrate, and output DMX, with the EDN
SPI	Via EDN+SDI: synchronous and asynchronous serial data output
DALI	Via RIO D
Simultaneous	Multiple protocols can be in operation simultaneously. Limited by patched channels, not universes used
Scalable	Synchronises with up to 40 Designer Controllers over network

Technical Data

Power	9-48V DC * or PoE (IEEE802.3af, Class 2), 4W typical
Configuration	Designer 2
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)) 14.4 x 9 x 5.8 cm (5.7 x 3.5 x 2.3 in) 0.5 kg (1.1 lbs)
Shipping	20 x 15 x 12 cm (8 x 6 x 5 in) 0.8 kg (1.8 lbs)
Recovery	Hardware watchdog and recessed reset button

Interfaces

Ethernet	RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP; Dual IP address for eDMX; Supports IEEE 802.1Q VLAN Tagging
DMX512	Two isolated DMX ports, RDM compatible *
Serial	RS232 / RS485 / DMX in *
Inputs	Eight inputs, individually selectable operating mode for contact closure, digital or analog input *
MIDI In & Out	MIDI via standard 5-pin DIN
USB-B socket	USB 1.1 for connection to PC

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

LPC dimensions

