



Touch Panel Controller

The Pharos 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 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.



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 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 Pharos 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.





Supported Fixtures

Any colour configuration e.g. RGB, RGBW, 8-bit, 16-bit, **LEDs**

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 Pharos offers a cloud library with over 30,000 fixture profiles, **Fixture Library**

for easy download of your luminaires

Output

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 **DMX512** Via EXT or second port on LPC 1

Via Art-Net, EXT or EDN: supports discovery and addressing **RDM**

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

Triggering & Integration

Startup Commences programmed playback automatically on

receiving power

Touchscreen Buttons, sliders, colour picker, etc.

Clock Battery-backed real-time clock for calendar and

time-based triggers

Astronomical Sunrise/Sunset/Twilight and Lunar phases **Temperature** Trigger on changes or entering a range

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

eDMX sACN or Art-Net

DALI Via EXT or RIO D: transmit and receive DALI commands **Serial Data** Via EXT: RS232; via RIO: RS232 or RS485; configurable ports;

send/receive free syntax in ASCII, HEX or decimal

MIDI MIDI Notes, SysEx or MIDI Time Code

Timecode Via RIO A: Linear Timecode (SMPTE, Film, EBU, NTSC)

Via RIO A: stereo 30-band spectrum analysis **Audio Level**

Via EXT or RIO: contact closure, active low, active high or Inputs

0-24V analog level

Via RIO: isolated relay outputs (48V, 250mA) Outputs

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

IO Modules Supports our extensive IO Module library for easy integration

Scalable Supports Pharos Designer Remote Devices

Interfaces

RI45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; **Ethernet**

Static IP or DHCP; Dual IP address for eDMX

Touchscreen 4.3" capacitive touch, 480×272 24bpp; 340 cd/m2; magnetic

IR Sensor Learning IR sensor for remote control **Temperature** Built-in ambient temperature sensor

Specifications

PoE (IEEE802.3af, Class 2), 4W typical **Power**

Configuration Pharos 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

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)

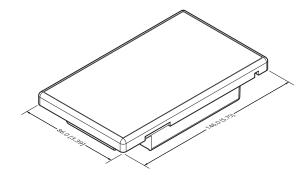
0.25 kg (0.55 lbs)

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



Order Code & Variants

TPC BB Designer Touch Panel Controller

Black-on-Black (512 channels eDMX) TPC CC

Designer Touch Panel Controller

Cream-on-Cream (512 channels eDMX)

TPC WW Designer Touch Panel Controller

White-on-White (512 channels eDMX)

TPC FBB Flush back box

TPC SBB Surface back box

Extension for TPC connectivity (DMX, **EXT**

DALI, IO, serial, mains-powered)

If no colour is specified, TPC BB will be shipped by default

Colour Information

Jet Black Bayblend T45 (UL94 HB) RAL 9005

jet black

Cream Bayblend T45 (UL94 HB) RAL 9001

Signal White Bayblend T45 (UL94 HB) RAL 9003

signal white

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.











