



EXPERT MAKES LIGHT OF IT

Benefit from Pharos expertise in dynamic architectural lighting with an all-new, practical, and straightforward control solution centred around a single, reliable set-and-forget controller.

With DMX, DALI and a couple of convenient contact closures and relays all on board, Expert Control provides up to 1024 channels and is just the job for architectural lighting that requires the benefits of dynamic movement and colour in a cost-effective and user-friendly package.

Expert Software helps and guides you through programming the controller. Also available is a companion 5" touchscreen; the elegant Expert Touch, and completing the range are two accessories: Expert Repeat which is a convenient DMX splitter for output distribution, and Expert Switch for PoE networking.

With the reliability you expect from Pharos and our expertise in dynamic lighting in architecture and entertainment: an easy to install, easy to use control solution.



One Controller



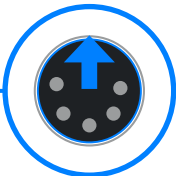
All you need in one stand-alone box. Up to 1024 channels of eDMX, two local DMX ports, a DALI port and two pairs of IO onboard with simple networking for programming. All in one compact, DIN rail mount enclosure and optional keyhole hanging, with solid-state hardware for 24/7 operation and reliability.

Straightforward installation



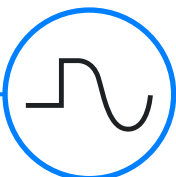
Requiring just PoE or conveniently flexible 9-48V DC power range, with install-friendly rising-clamp connectors. Out-of-the-box, the test modes on the rotary dial select the output ports, and the push button allows raising and dimming levels for fixture testing. Test mode and levels can even be maintained indefinitely as working lights before commissioning and programming occur. Rotary dial also provides four programmable override states.

Output



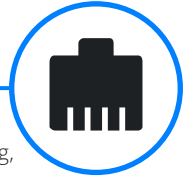
Controllers available in one DMX universe (512 channel) and two DMX universe (1024 channel) capacities. Output over Ethernet to various eDMX lighting protocols, with two self-healing ports for convenient patching to local DMX512. Expert Repeat available for additional local DMX distribution. The DALI port supports control for up to 64 DALI devices, including device discovery and configuration.

Easy IO Integration



The two inputs / two outputs provide contact closure to interface with controls such as fire alarm systems and key-switch overrides. Receive DALI messages from other controllers such as wall panels or occupancy sensors.

Network Connectivity



Whatever suits your installation – from a single Ethernet cable direct to a laptop just for programming, or a static, closed network just for your lighting data, to the facility's IT network for greater connectivity, or even to the Internet to connect via Pharos Cloud for fully secure remote access. Expert Switch available to provide an unmanaged network switch with PoE for Expert Control and Touch.

Remote Management



The control you need in your browser – from anywhere. Pharos Controllers can be connected to Pharos Cloud, a secure remote management service from SixEye. This allows direct control of your Controllers from anywhere in the world, letting you check controller status, inputs and outputs, firing events, scheduling events, uploading new projects and much more.

Expert Software



Let Expert Software guide you through setting up and creating your lighting design, with helpers and clear, easy-to-follow processes. This desktop app is a brand-new programming platform, designed from scratch to give you just the tools you need, with innovative approaches to scheduling and triggering your lighting, based around an intuitive spaces-based approach which simplifies managing your installation, fixtures and lighting looks. And, it's free for Windows and macOS.

Reliability



Made for permanent installation, with installer-friendly connectors and easy DIN rail mounting. Hardware and firmware are self-sufficient, so no PC needs to be left on site. Compact unit designed for 24/7 operation and reliability.



Supported Fixtures

LEDs	LEDs in any colour configuration (RGB, RGBW, RGBA, 8-bit, 16-bit, tuneable white)
Generic	Downlights, spotlights, uplights, etc. via controllable dimmers and relays
DALI	Ballasts are supported, such as single channel, Tc and XY

Output

DMX512	2 ports (max 512 channels each) USITT E1.11-2008
RDM	Supports discovery and addressing via Expert software
sACN	USITT E1.31 standard
Art-Net	Art-Net I, Art-Net II and Art-Net 3
KiNET	KiNET V1, V2, V3; PDS/Data Enabler discovery
DALI	Support for single channel, Tc and XY
Simultaneous	Multiple protocols can be in operation simultaneously. Limited by patched channels, not universes used

Interfaces

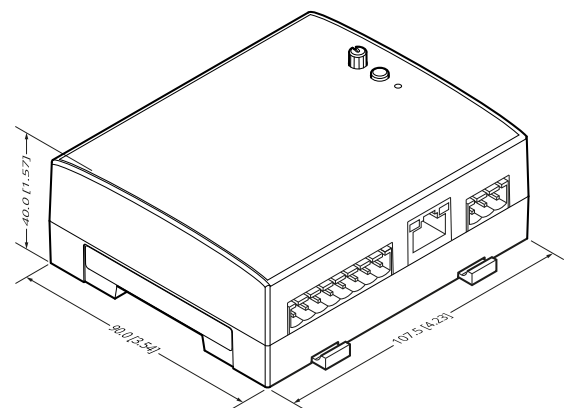
Rotary Dial	A rotatory dial for switching to customisable preprogrammed states or test setups
Push Button	For test mode intensity
Ethernet	RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP; Dual IP address for eDMX
DMX512	Two individually isolated DMX ports, RDM compatible *
DALI	Transmit and receive DALI commands * Supports DALI standards: EN 62386-101:2009, EN 62386-102:2009, EN 62386-202:2009, EN 62386-209:2011 A separate DALI bus power supply is required
Inputs	Two inputs, individually selectable operating mode for contact closure, digital or analog input *
Relay Outs	Two individually isolated (1KV) relay outputs (48V 250mA)

Order Code & Variants

XPC 1	Expert Control 1 (Lighting controller with 512 channels eDMX/DMX, DALI, IO)
XPC 2	Expert Control 2 (Lighting controller with 1,024 channels eDMX/DMX, DALI, IO)

Specifications

Power	9-48V DC * or PoE (IEEE802.3af, Class 2) 4W typical
Configuration	Pharos Expert
Data Storage	Removable MicroSD card (provided)
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-90% relative, non-condensing
Ingress	IP40
Physical	6 unit wide DIN rail mounting enclosure (35/7.5 rail) Incorporated keyhole hangers 10.8 x 9 x 4 cm (4.2 x 3.5 x 1.6 in) 0.2 kg (0.5 lbs)
Shipping	19.5 x 15 x 7.5 cm (8 x 6 x 3 in) 0.35kg (0.8lbs)
Recovery	Hardware watchdog and recessed reset button



Warranty & Certifications

Designed and manufactured in the UK, with a 5-year warranty, where quality and reliability are our top priority.

Warranty 5 years

Certifications CE compliant, UKCA compliant, UL/cUL listed, may be used as part of a California Title 24 compliant lighting control system.



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