YOUR EXPERT IN DMX AND DALI CONTROL

Benefit from Pharos expertise in dynamic architectural lighting with Pharos Expert, the award-winning, cost-effective control solution centred around a single, reliable, set-and-forget controller that's easy to specify and install. The software is the expert, offering curated options for lighting control, scheduling and integration features.

With DMX, DALI and a couple of convenient contact closures and relays all on board, Expert Control provides up to 3072 channels and is ideal for architectural lighting that requires the benefits of dynamic lighting for intelligent single-scene-per-space playback.

The free Expert Touch mobile app provides auto generated pages of user controls on any smart device over local Wi-Fi. Also available are companion wall-mount touchscreens; the elegant 5" and 8" 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.
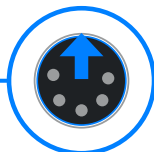
Expert makes light of it.

One Controller

All you need in one stand-alone box. Up to 3072 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, two, four and six DMX universe capacities. Two self-healing ports for convenient patching to local DMX512. Expert Repeat available for additional local DMX distribution. All channels are available over Ethernet distribution via eDMX protocols such as sACN and Art-Net, and via DMX ports on the Pharos RIO G4. The DALI port supports control for up to 64 DALI devices, including device discovery and configuration.
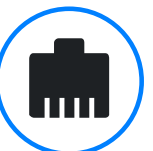
Easy IO Integration

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.

Expert Software

Let Expert Software guide you through setting up and creating your lighting design, with helpers and clear, easy-to-follow processes. This commissioning application for Windows and macOS gives you just the tools you need, with curated options including familiar calendar-based scheduling and useful integration solutions. Spaces on the canvas simplify managing your installation, fixtures and lighting looks.

Network Connectivity

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 local IT network for greater connectivity including devices running the Expert Touch mobile app, or even the Internet for comprehensive remote management via Pharos Cloud.

Expert Touch mobile app

Download the Expert Touch mobile app then connect phones and tablets via local Wi-Fi for a free user interface, with automatically generated pages created in Expert software.

Remote Management

The control you need in your browser – from anywhere. Expert Control can be connected to Pharos Cloud, our secure remote management service. Check controller status, monitor inputs and outputs, activate scenes, schedule events, upload new projects and much more.

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
Multi-parameter	Set static values for position, focus and other extended fixture parameters

Output

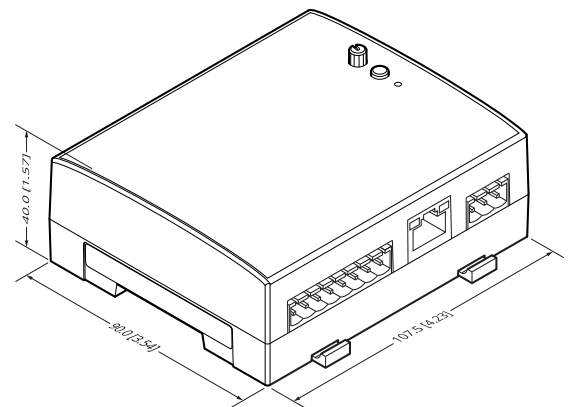|	
DMX512	2 ports (max 512 channels each) ANSI E1.11-2008
RDM	Supports discovery and addressing via Expert software
sACN	ANSI E1.31 standard
Art-Net	Art-Net I, Art-Net II and Art-Net 3
KiNET	KiNET V1, V2, V3; PDS/Data Enabler discovery
DALI	Support for single channel, Tc and XY
Simultaneous	Multiple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

Interfaces

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)
Ethernet	RJ45 socket for 10/100Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP; Dual IP address for eDMX
Rotary Dial	A rotatory dial for switching to customisable preprogrammed states or test setups
Push Button	For test mode intensity
Expert Touch	Stylish auto-generated touchscreen interfaces available via free mobile app over local Wi-Fi (access point required) and, via Touch 5 and Touch 8, elegant installation-friendly PoE wall stations
HTTP API	Full control over most aspects of the controller's project from any device that can send HTTP requests
Simple Ethernet API	UDP API to send simple commands and queries to Expert Control

Order Code & Variants

XPC 1	Expert Control 1 (Lighting controller 512 channels, 2 local DMX ports, eDMX, DALI, IO)
XPC 2	Expert Control 2 (Lighting controller 1,024 channels, 2 local DMX ports, eDMX, DALI, IO)
XPC 4	Expert Control 4 (Lighting controller 2,048 channels, 2 local DMX ports, eDMX, DALI, IO)
XPC 6	Expert Control 6 (Lighting controller 3,072 channels, 2 local DMX ports, eDMX, 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)

XPC25001