

### Overview



The Pharos VLC (Video Lighting Controller) is an extremely capable but cost effective solution for large LED pixel arrays such as building façades, bridges, and presentation walls. It makes it simple to play video content across your array, either from locally stored HD media files or a DVI-D video input. It also offers a range of creative generative effects, the versatility of powerful show control, and integration features.

### Features



#### Render Engine

Make your light fixtures a canvas onto which you can paint with creative effects or video playback. The powerful Designer 2 software allows you to build your fixture layout fast with pixel-precise adjustment. Then use individually controllable and independently running timelines to build dynamic, striking, pre-programmed lighting displays across your canvas.



#### Pharos Trigger

Timing is everything. Whatever the stimulus, Pharos Trigger can handle it. You can control your lighting with responsive, reactive programming. Pharos 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.



#### High Capacity

Big just got a whole lot easier. The VLC can output all commonly used eDMX protocols (sACN, Art-Net, KiNET) over Gigabit Ethernet and there are no restrictions on using these protocols simultaneously. There are six VLC variants with pricing based on channel capacity, ranging from 25,600 channels up to a massive 768,000 channels.

### Scalable

The right fit for every installation. Multiple Pharos 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.

### High Definition

Live video can be captured on the DVI-D input at resolutions up to 1080p60. Internal video playback at up to 1080p30 supports all major formats such as H.264/MPEG-4 AVC, MJPEG and QuickTime. The built-in 128GB SSD provides plenty of capacity for media storage.

### Remote Management

The control you need in your browser – from anywhere. Pharos Controllers can be connected to a network, making it possible for you to remotely manage your installation. The built-in web server lets you check the Controller's status, inputs and outputs, trigger timelines, view a full history log and much more.

### 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 API and access control with multiple user levels.

### Pharos Designer

Programmed and configured using the free Pharos Designer software – available for Windows or Mac OS X – 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.

### 5 Year Warranty

Designed and manufactured in the UK, with quality and reliability our top priority.

### Certifications

CE compliant, ETL/cETL listed, and California Title 20/24 compliant.



## Supported Fixtures

<b>LEDs</b>	LEDs in any colour configuration (RGB, RGBW, 8-bit, 16-bit, tuneable white)
<b>Fixture Library</b>	Pharos offers a cloud library with over 13,000 fixture profiles, for easy download of your luminaires

## Output

<b>sACN</b>	USITT E1.31 (with per fixture priority)
<b>Art-Net</b>	ArtNet, ArtNet II and ArtNet III (configurable broadcast override)
<b>KiNET</b>	KiNET V1 (DMX out) and V2 (Port out); PDS/Data Enabler discovery
<b>Pathport</b>	Pathway Connectivity protocol
<b>DMX512</b>	Via any eDMX node
<b>Scalable</b>	Synchronises with up to 40 Pharos Controllers over network
<b>Simultaneous</b>	Multiple protocols can be in operation simultaneously. Limited by patched channels, not universes used

## Triggering & Integration

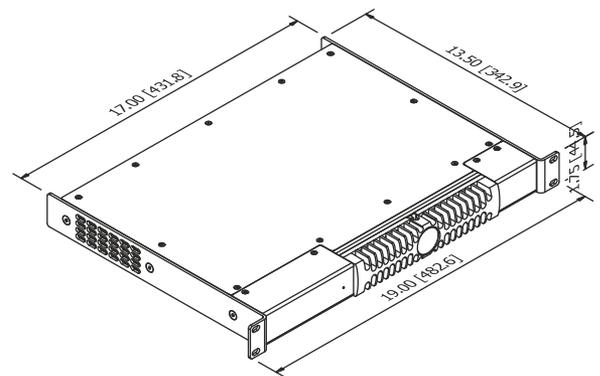
<b>Startup</b>	Commences playback automatically on receiving power
<b>Clock</b>	Battery-backed real-time clock for calendar and time-based triggers
<b>Astronomical</b>	Sunrise/Sunset/Twilight and Lunar phases
<b>Ethernet</b>	UDP, TCP, Multicast; send/receive any Ethernet message
<b>Serial Data</b>	RS232; configurable port; send/receive free syntax in ASCII, HEX or decimal
<b>eDMX</b>	sACN or Art-Net
<b>Inputs</b>	Contact closure, active low, active high or 0-24V analog level via RIOs
<b>Outputs</b>	Isolated relay outputs (48V 250mA) via RIOs
<b>MIDI</b>	MIDI Notes, SysEx or Timecode via RIO A
<b>Timecode</b>	Linear Timecode via RIO A (SMPTE, Film, EBU, NTSC)
<b>Audio Level</b>	Stereo 30-band spectrum analysis via RIO A
<b>DMX / RS485</b>	Via RIOs; trigger on changes within a range or entering a range
<b>DALI</b>	Trigger on any message, via RIO D
<b>Web Interface</b>	Built-in or custom designed
<b>Wall Stations</b>	Integrate with BPS or TPC
<b>Conditions</b>	Full conditional logic support
<b>Scripting</b>	Lua scripting for total flexibility
<b>Scalable</b>	Supports Pharos Remote Devices

## Interfaces

<b>Ethernet</b>	Neutrik etherCon (RJ45 compatible) for 10/100/1000Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP
<b>eDMX</b>	Dedicated Ethernet port for eDMX; Neutrik etherCon (RJ45 compatible) for 10/100/1000Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP
<b>DVI-D Input</b>	Video input to capture resolutions up to 1080p60
<b>DVI-I Output</b>	DVI-I output for monitoring
<b>Serial</b>	RS232 via DB9 connector
<b>USB</b>	Two USB 2.0 Type A ports
<b>Audio Outputs</b>	Stereo analog & digital audio ports (for future development)

## Specifications

<b>Certifications</b>	CE compliant, ETL/cETL listed
<b>Power</b>	100-240VAC / 50-60HZ / 0.4-0.2A 40W typical (50W maximum) IEC connector with switch UK, EU and US cable supplied
<b>Data Storage</b>	Internal 128GB SSD (supplied)
<b>Configuration</b>	Pharos Designer 2.2 or later
<b>Temperature</b>	0°C to 50°C (32°F to 122°F)
<b>Humidity</b>	10-50% relative, non-condensing
<b>Ingress</b>	IP40
<b>Physical</b>	19" rack unit, 1U, 13.5" deep 3.1 kg (6.8 lbs)
<b>Shipping</b>	57 x 45 x 18 cm (22" x 18" x 7") 5.0 kg (11 lbs)
<b>Recovery</b>	Hardware watchdog and recessed reset button
<b>Warranty</b>	5 years



## Order Code & Variants

<b>VLC 50</b>	Video Lighting Controller 50 (25,600 channels eDMX)
<b>VLC 100</b>	Video Lighting Controller 100 (51,200 channels eDMX)
<b>VLC 250</b>	Video Lighting Controller 250 (128,000 channels eDMX)
<b>VLC 500</b>	Video Lighting Controller 500 (256,000 channels eDMX)
<b>VLC 1000</b>	Video Lighting Controller 1000 (512,000 channels eDMX)
<b>VLC 1500</b>	Video Lighting Controller 1500 (768,000 channels eDMX)

