Video Lighting Controller

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.

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VLC Features

Designer 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.

High Capacity
Big just got a whole lot easier. The VLC can output all commonly used eDMX protocols (sACN, Art-Net I, 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.

Pharos Designer
Programmed and configured using the free Pharos 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 API and access control with multiple user levels.

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.

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.

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.

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.

Installer Friendly
Made for permanent installation, the VLC is a 1U enclosure designed for 19" rack mounting.

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.

Supported Fixtures

LEDs	RGB, RGBA, RGBW, RGBAW and W in any colour order, 8-bit or 16-bit
Fixture Library	Pharos offers a cloud library with over 30,000 fixture profiles, for easy download of your luminaires

Output

sACN	USITT E1.31 (with per fixture priority)
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
DMX512	Via the EDN or any other eDMX node
DALI	Via RIO D4. Interface limits apply
Audio Out	Audio Output with two audio layers; a background layer for ongoing audio, and an alert layer for high-priority overriding
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

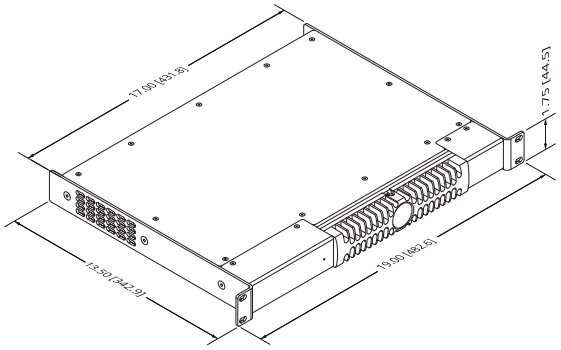
Startup	Commences playback automatically on receiving power
Clock	Battery-backed real-time clock for calendar and time-based triggers
Astronomical	Sunrise/Sunset/Twilight and Lunar phases
Ethernet	UDP, TCP, Multicast; send/receive any Ethernet message
RS232 Serial	Configurable port; send/receive free syntax in ASCII, HEX or decimal
RS485 Serial	Via RIO: configurable port; send/receive free syntax in ASCII, HEX or decimal
eDMX	sACN or Art-Net
Inputs	Via RIO: contact closure, active low, active high or 0-24V analog level
Outputs	Via RIO: isolated relay outputs (48V, 250mA)
MIDI	Via RIO A: MIDI Notes, SysEx or MIDI Time Code
Timecode	Via RIO A: Linear Timecode (SMPTE, Film, EBU, NTSC)
Audio Level	Via RIO A: stereo 30-band spectrum analysis
DALI	Via RIO D4: transmit and receive DALI commands
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

Ethernet	Network port for device access and management; Neutrik etherCON (RJ45 compatible) for 10/100/1000Base-TX Ethernet; Static IP or DHCP
eDMX	Dedicated Ethernet port for lighting data; Neutrik etherCON (RJ45 compatible) for 10/100/1000Base-TX Ethernet; Static IP or DHCP
DVI-D Input	Live video input to capture resolutions up to 1080p60
DVI-I Output	DVI-I output (for future development)
Serial	RS232 via DB9 connector
USB	Two USB 2.0 Type A ports (for future development)
Audio Outputs	Stereo analog & digital audio ports

Specifications

Power	100-240V AC, 50-60Hz, 0.4-0.2A, 40W typical (50W maximum), IEC connector with switch (power cable not supplied)
Configuration	Pharos Designer 2.2 or later
Data Storage	Internal 128GB SSD (supplied)
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-50% relative, non-condensing
Ingress	IP20
Physical	19" rack unit, 1U, 13.5" deep 48.3 x 34.3 x 4.5 cm (19 x 13.5 x 1.8 in) 3.1 kg (6.8 lbs)
Shipping	57 x 45 x 17 cm (22 x 18 x 7 in) 5.5 kg (12 lbs)
Recovery	Hardware watchdog and recessed reset button



Order Code & Variants

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

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.

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VLC24001