Video Lighting Controller Plus M

The Pharos VLC+ M (Video Lighting Controller Plus M) is designed to control the world's largest lighting façade projects. It renders multiple layers of effects and video from internal storage or live input and features processing, including rotation and masking. Up to 500 universes of eDMX and video can be output from a single unit with integrated show control.

Supported in Pharos Designer 2.15 or later.

VLC FAMILY

VLC+ Features

Designer Engine
Make your light fixtures a canvas onto which you can paint compositions of creative effects and full HD video playback, including dynamic rotation, translation and masking. The Designer 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.

High Capacity
Big just got a whole lot easier. The VLC+ M can output all commonly used eDMX protocols over Gigabit Ethernet as well as providing its full canvas over video, and there are no restrictions on using these protocols simultaneously. The VLC+ M renders effects and video from internal storage or live input onto a canvas up to 16,000 pixels wide or high, and can output up to 500 universes of eDMX from a single unit. This can integrate well with the EDN20, which allows 20 universes of eDMX per node.

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 HDMI input at resolutions up to 1080p60. Dual 1080p30 internal playback means two full HD streams can be played, and cross-faded seamlessly into two further streams. In total, up to eight players are available, subject to performance limitations. Support for all major formats such as H.264/MPEG-4 AVC, MJPEG and QuickTime with 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 1U 19" rack mount unit designed for 24/7 operation and reliability.

Ease of Use
Easily build huge lighting projects with powerful Pharos Designer features such as fixture template – a tool that enables you to create a composite fixture that is an arrangement of any single-element library fixture, allowing strings and tiles to be built up from individual nodes into reusable templates to speed up commissioning.

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.

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Specifications subject to change without notice

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

DMX512	Pharos Gateways EDN and RIO G4, or any eDMX node
RDM	Not available on VLC family controllers
sACN	ANSI E1.31 (with per fixture priority) standard
Art-Net	Art-Net I, Art-Net II, Art-Net 3, Art-Net 4 (transmit only). Configurable broadcast override
KiNET	KiNET V1, V2, V3; PDS/Data Enabler discovery
Pathport	Pathway Connectivity protocol
SPI	Via RIO G4 + SDI / EDN + SDI: synchronous and asynchronous serial data output
Video Out	Display port for video-mapped fixtures
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
Capacity	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
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
Timecode	Linear Timecode (SMPTE, Film, EBU, NTSC)
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
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 5 or TPS 8
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

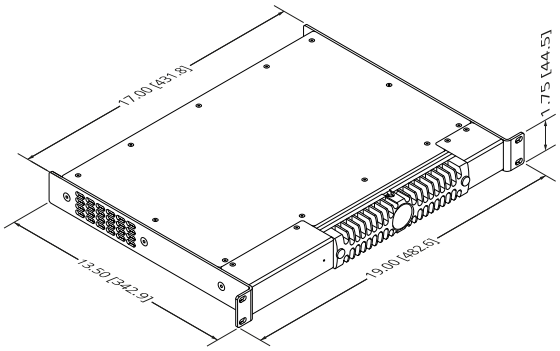
Interfaces

Ethernet	Network port for device access and management; Neutrik etherCON (RJ45 compatible) for 10/100/1000Base-TX Ethernet with Link/Data LEDs; Static IP or DHCP
eDMX	Two internally-switched dedicated Ethernet ports for lighting data; Neutrik etherCON (RJ45 compatible) for 10/100/1000Base-TX Ethernet; Static IP or DHCP
Serial	RS232 *
USB	Two USB 2.0 Type A ports (for future development)
Audio Outputs	Stereo balanced line level analog port * / SPDIF (RCA) port
Audio Input	Stereo balanced line level analog port *
Video Output	Display port for monitoring or video-mapped fixtures
Video Input	HDMI live video input up to 1080p60

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

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 2.15 or later
Data Storage	Internal 128GB SSD (supplied)
Temperature	0°C to 50°C (32°F to 122°F)
Humidity	10-90% 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) 3.5 kg (7.7 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+ M 50	Designer Video Lighting Controller Plus M 50 (25,600 channels eDMX)
VLC+ M 100	Designer Video Lighting Controller Plus M 100 (51,200 channels eDMX)
VLC+ M 250	Designer Video Lighting Controller Plus M 250 (128,000 channels eDMX)
VLC+ M 500	Designer Video Lighting Controller Plus M 500 (256,000 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.

VLC FAMILY

VLC+M26002

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