

# DIN-DMX-1UNIVERSE

## Lighting Playback Controller, 1 Universe



- *Pharos engine for complete control of the installation*
- *Build dynamic, precise, fully customizable pre-programmed lighting displays*
- *512 DMX/eDMX Channels, 1 Universe*
- *Scalable to the size of your lighting display*
- *Control a wide range of devices*
- *Reliable 24/7 operation*
- *8U 35 mm DIN rail mountable*

The Crestron® DIN-DMX-1UNIVERSE is a Pharos LPC (Lighting Playback Controller) all-in-one control solution for themed entertainment and LED lighting installations.

### Pharos Engine

The intelligent Pharos Engine gives you complete control of your installation. The DIN-DMX-1UNIVERSE provides individually controllable and independently running timelines and scenes allowing you to build dynamic, precise, and fully customizable preprogrammed lighting displays. Additionally, it provides you with the freedom of real-time manual overrides, flexible multizone control, prioritization, and more.

### Pharos Mapping

Design the big picture – control every pixel. Create a map of your fixtures within the Designer software, then use Pharos Mapping to create visually striking effects or play video across the entire array. Powerful controls allow you to build maps fast with pixel-precise adjustment. Multiple maps can be created to support different zones or for modeling different views of your installation.

### Pharos Trigger

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.

### Scalable for Any Installation

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, add remote devices to extend the network further. Whether one controller or many, it's all easily programmed using our Designer software.

### 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 manage your installation remotely. The built-in web server lets you check the Controller's status, inputs and outputs, trigger timelines, view a full history log, and more.

### Handles Multiple Lighting Protocols

Be limited by your design brief, not your control system. The DIN-DMX-1UNIVERSE supports a vast range of different fixture types and can output multiple DMX-over-Ethernet (eDMX) lighting protocols at the same time to provide an unparalleled level of flexibility and control over your project.

### DIN Rail Mounting

The DIN-DMX-1UNIVERSE is designed to snap onto a standard DIN rail for installation in a wall mount enclosure (Crestron DIN-EN series or similar, not supplied) or on a wall panel.

# DIN-DMX-1UNIVERSE

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### Specifications

#### Power

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4 W typical;  
9–48 VDC<sup>1</sup> or PoE (IEEE802.3af, Class 2)

#### Data Storage

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Removable SD Card (supplied)

#### Supported Fixtures

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**LEDs:** LEDs in any color configuration (RGB, RGBW, 8-bit, 16-bit, tuneable white)

**Automated:** Moving heads, yokes or scanners

**Generic:** Downlights, spotlights, uplights, etc. via controllable dimmers, relays or ballasts

**Fountain Jets:** Fountain jets for fountain animation or other animatronics

**Fixture Library:** Pharos offers a cloud library with over 13,000 fixture profiles, for easy download of your luminaires

#### Output

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**DMX512:** 1 ports (max 512 channels) USITT E1.11-2008

**RDM:** Supports discovery and addressing via Designer software

**sACN:** USITT E1.31 (with per fixture priority) standard

**Art-Net:** ArtNet, ArtNet II, and ArtNet III (configurable broadcast override)

**KiNET:** KiNET V1 (DMX out) and V2 (Port out);  
PDS/Data Enabler discovery

**Pathport:** Pathway Connectivity protocol

**DALI:** Via RIO D (supplied separately)

**Scalable:** Synchronizes with up to 40 Pharos Controllers over the network

**Simultaneous:** Multiple protocols can be in operation simultaneously;  
Limited by patched channels, not universes used

#### Triggering and Integration

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**Startup:** Commences programmed playback automatically on receiving power

**Contact Closures:** Connect an external volt-free switch between input and ground (internal 2.2k pull-up to 5V)

**Digital In:** Connect an external voltage source between input and ground;  
24V maximum (internal 2 MOhm pull-down to 0V);  
Software-configurable low and high threshold

**Analog In:** Connect an external voltage source between input and ground (24V maximum);  
Software-configurable range

**Clock:** Battery-backed, real-time clock for calendar and time-based triggers

**Astronomical:** Sunrise, sunset, twilight, and lunar phases time-clock events

**Ethernet:** UDP, TCP, Multicast;  
Send and receive any Ethernet message

**Serial Data:** RS-232, RS-485;  
Configurable port;  
Send and receive free syntax in ASCII, HEX or decimal

**MIDI:** MIDI Notes, SysEx or Timecode

**Timecode:** Linear Timecode via RIO A (SMPTE, Film, EBU, NTSC)

**Audio Level:** Stereo 30-band spectrum analysis via RIO A

**DMX:** Trigger on changes within a range or entering a range

**eDMX:** sACN or Art-Net (option to pass-thru on local DMX output)

**DALI:** Trigger on any message, via RIO D

**Web Interface:** Built-in or custom designed

**Wall Stations:** Integrate with BPS or TPC

**Conditions:** Full conditional logic support

**Scripting:** Lua scripting for total flexibility

**Scalable:** Supports Pharos remote devices

#### Connections

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**Ethernet:** (1) RJ-45 socket for 10/100Base-TX Ethernet with Link/Data LEDs;  
Static IP or DHCP;  
Dual IP address for eDMX

**DMX512:** (1) isolated DMX ports, RDM compatible<sup>1</sup>

**Serial:** RS-232, RS-485, DMX in<sup>1</sup>

**Inputs:** Eight inputs;  
Individually selectable operating mode for contact closure, digital or analog input<sup>1</sup>

**MIDI In and Out:** MIDI via 5-pin DIN 41524 socket

**USB-B Socket:** USB 1.1 for connection to PC

#### Environmental

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**Temperature:** 32° to 122° F (0° to 50° C)

#### Construction

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**Mounting:** 8 unit wide DIN rail mounting enclosure (DIN43880 / EN60715 (35/7.5 rail))

**Ingress Protection:** IP40

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### Dimensions

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**Height:** 3.54 in. (90 mm)

**Width:** 5.56 in. (144 mm)

**Depth:** 2.25 in. (58 mm)

### Weight

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1.1 lb (0.5 kg)

### Compliance

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CE, ETL/cETL listed

### Models

#### Available Models

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##### DIN-DMX-1UNIVERSE

Lighting Playback Controller, 1 Universe

##### DIN-DMX-2UNIVERSE

Lighting Playback Controller, 2 Universe

#### Notes:

1. Plug-in rising clamp connector (0.20 in. (5.08 mm)) included to facilitate connection.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](http://www.crestron.com/How-To-Buy/Find-a-Representative) or by calling 855-263-8754.

Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at [www.crestron.com/about/partner-info/commercial-lighting-consultants](http://www.crestron.com/about/partner-info/commercial-lighting-consultants). For assistance with incorporating this product into a design or specification, please contact the Commercial Lighting Consultant Hotline via email at [clcdesign@crestron.com](mailto:clcdesign@crestron.com) or by calling 888-330-1502.

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