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e:cue

# Lighting Control Engine 3 fx

## e:cue Server

e:cue Lighting Engines are servers developed for the control of large and complex projects. e:cue's SYMPHOLIGHT and the Lighting Application Suite (LAS) are preinstalled on all e:cue servers. As a central control unit, the versatile servers guarantee uninterrupted operation, since all lights and controllers are controlled within a project. e:cue servers are scalable to cover all project requirements.



## e:cue Lighting Control Engine 3 fx

The Lighting Control Engine 3 fx (LCE3FX) serves as a high-performance server for controlling large lighting projects, with pre-installed e:cue SYMPHOLIGHT and Lighting Application Suite (LAS). As a central control unit, this versatile light control server orchestrates all devices and lights within a project. The LCE3FX has integrated digital dry contacts, two single-pole relay outputs and support for a wide range of Ethernet-based protocols. Additionally, Emotion FX video mixing is fully supported in the LCE3FX version. Shows and light scenes can be controlled with the internal web server via mobile devices, web browsers or via cloud applications. A built-in status display on the front shows system and software messages. The LCE3FX is the ultimate server solution for any demanding lighting project.

### Highlights

- Built-in Video Capture Card
- Software licenses for e:cue's SYMPHOLIGHT and Lighting Application Suite, pre-installed
- High quality industrial components for reliable uninterrupted and efficient 24/7 operation
- 2 x SSD hard disk drive in RAID 1 operation for increased system stability
- Integrated dry contact inputs (6x) and relay outputs (2x), video input
- Easily mountable in 19 inch racks, space saving (3U)

### Delivery scope

- e:cue Lighting Control Engine 3 fx including Microsoft® Windows 10™ IoT Enterprise and software licenses for e:cue's SYMPHOLIGHT and Lighting Application Suite
- Printed LCE3FX Information for Use, safety instructions
- Rack mounting rails, including screws
- 2 x mini DisplayPort to DVI-D adapter
- 2 x mini DisplayPort to DisplayPort
- 3 x IEC-C13 power cord (EU, US, and UK versions)
- 2 x relay interface plug
- Dry contact plug

### Identcode

AM368100135

### Product

Lighting Control Engine 3 fx

### Product number

AM368100135

### Dimensions

483 x 133 x 405 mm/  
19.02 x 5.24 x 15.04 in (incl. mounting brackets)

### Weight

12.3 kg / 27.12 lb (incl. mounting brackets)

### Power supply input

100 ... 240 V AC, 50/60 Hz

### Power consumption

110 W typically (incl. optional video capture card), efficiency up to 92.5%

### Operating temperature

0 ... 40 °C / 32 ... 104 °F

### Storage temperature

-10 ... 70 °C / 14 ... 158 °F

### Operating / storage humidity

0 ... 80% RH, non-condensing

### Protection class

IP20

### Housing

Steel, front panel powder coated

### Mounting

in 19-inch rack with rails

### Interface specifications

#### USB

2 x USB 3.0 (front)  
2 x USB 3.1 Gen 2 (rear)  
2 x USB 3.1 Gen 1 (rear)  
4 x USB 2.0 (rear)

#### Digital dry contacts

6 x inputs,  $V_{in} = 5 \dots 24$  V DC  
1 kV galvanically isolated  
off:  $V_{in} < 1$  V DC, on:  $V_{in} > 4$  V DC  
Input current  $I_{in}$  (typical):  
 $V_{in} = 5$  V /  $I_{in} = 0.8$  mA  
 $V_{in} = 12$  V /  $I_{in} = 2.3$  mA  
 $V_{in} = 24$  V /  $I_{in} = 4.8$  mA  
12 V DC output, max. 70 mA, overload protected

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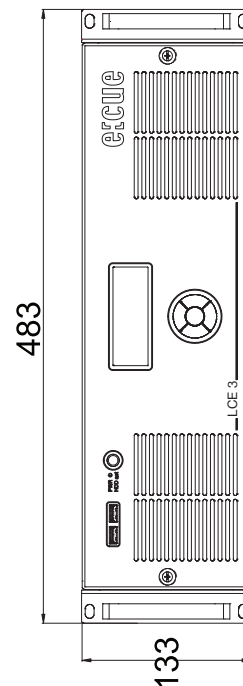
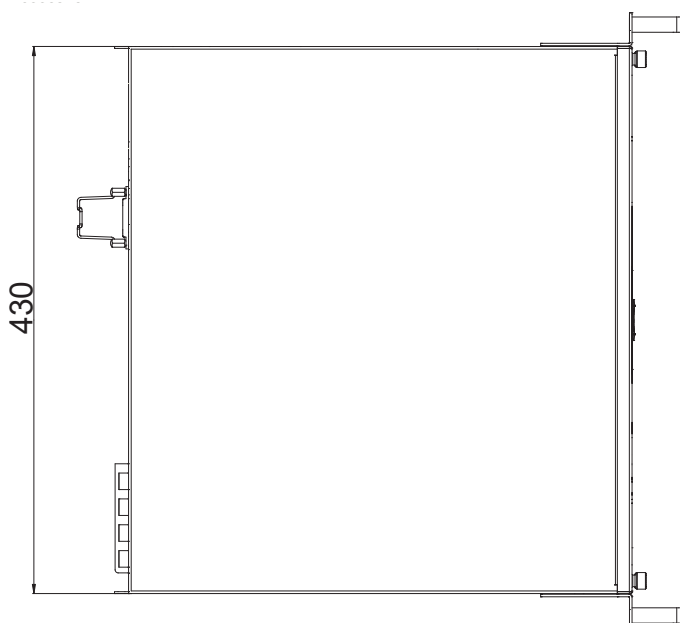
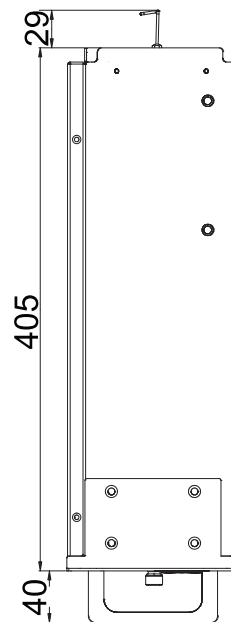
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# Lighting Control Engine 3 fx

Relay outputs	2 x SPDT Nominal voltage: 250 V AC Continuous current: 12 A (CE, CSA), 10 A (UL, provided plug's limitation) Inrush current: 50 A (max. 20 ms) Isolation between open contacts (1 kV)
User interfaces	LC Display, Keypad
Ethernet-Port	2 x e:net 10/100/1000 Mbps, RJ45
Serial interfaces	1 x RS-232 Sub-D
Keyboard / mouse	2 x PS/2
Graphics	1 x DVI-D, 2 x DisplayPort, 4 x mini DisplayPort
Video input	DVI Input Capture, max. 1920 x 1080 x 24 bit
Audio	1 x microphone 1 x audio/line output 1 x audio/line input
Data storage	2 x removable SSD HDD (RAID 1 config)
Media drives	CD/DVD via USB port

## Dimensions

All measures in mm



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# Lighting Control Engine 3 fx

## Connectivity

Rear side

