Lighting Control Engine 3

e:cue Interfaces

Lighting applications are heterogenous by nature. e:cue interfaces serve to integrate many networks, protocols and third party products into e:cue solutions. They also aid in applying special control functions for fixtures, they integrate analog or mechanical signaling into the digital world and offer bridging functions. e:cue interfaces are the links to bring together the many techniques and technologies of lighting control.

e:cue Lighting Control Engine 3

The Lighting Control Engine 3 (LCE3) 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 LCE3 has integrated digital dry contacts, two single-pole relay outputs and support for a wide range of Ethernet-based protocols. 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 LCE3 is the ultimate server solution for any demanding lighting project.

Highlights

- 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)
- LC display and cursor keys for status messages
- Easily mountable in 19 inch racks, space saving (3U)

Delivery scope

	Identcode
• e:cue Lighting Control Engine 3 including Microsoft® Windows 10™ IoT Enterprise and software licenses for e:cue's SYMPHOLIGHT and Lighting Application Suite	AM368100035

- Printed LCE3 Information for Use (English / German), safety instructions
- Rack mounting rails, including screws
- mini DisplayPort to DisplayPort adapter
- 3 x IEC-C13 power cord (EU, US, and UK versions)
- Dry contact plug
- 2 x relay interface plug

Technical data

Dimensions (W x H x D)	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 .... 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
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)

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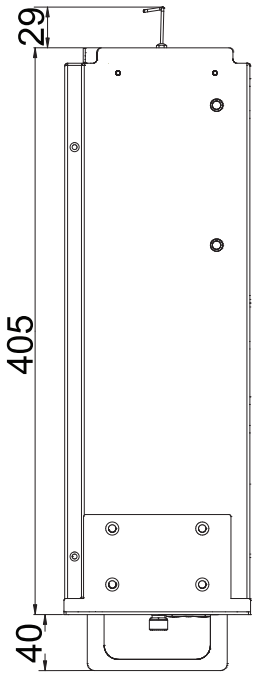
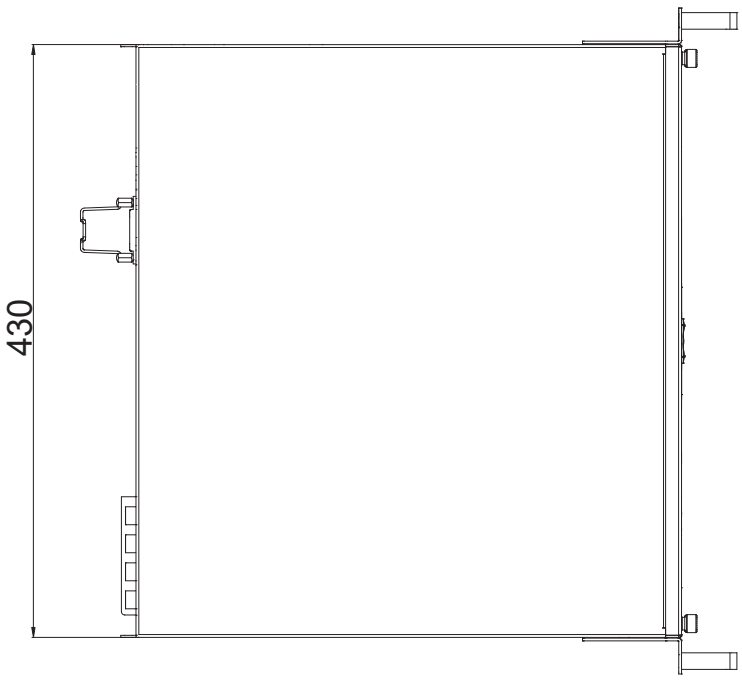
User interfaces	LC Display, Keypad
Ethernet-Port	2 x e:net 10/100/1000 Mbps, RJ45
Serial interfaces	1 x RS-232 Sub-D
Keyboard / mouse	2 x PS/2
Graphics	1 x DVI-D, 2 x DisplayPort, 4 x mini DisplayPort
Audio	1 x microphone 1 x audio/line output 1 x audio/line input
Data storage	2 x removable SSD HDD (RAID 1 config)
Media drives	CD/DVD via USB port

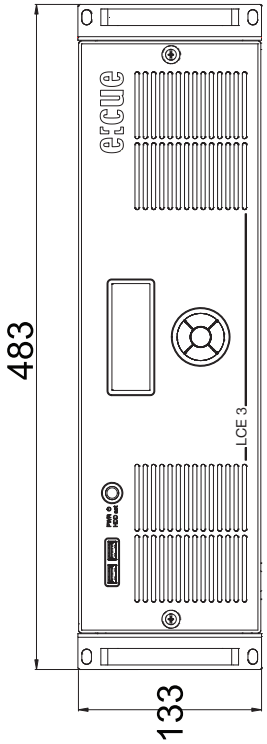
Conforms to ANSI/UL Std. 62368-1
Certified to CAN/CSA Std. C22.2
NO. 62368-1
Intertek
40006376

Dimensions

All measures in mm







Connectivity

Rear side