### Controllers

# Controller with EtherNet/IP Interface **CN-4024-2-EIPT**

## Light Control through an EtherNet/IP Network



Note: The CN Controller is operated only through external control, and cannot be controlled manually.

#### Features

- Operated only through external control.
- Light intensity and other settings can be controlled with explicit messages via EtherNet/IP communications and with I/O commands via TCP/IP communications.

EtherNet/IP Message Specifications						
Device type	Message type	Port number to use (TCP)	DHCP	DLR function	Conformity	
Adapter	Explicit (UCMM, Class 3)	44818	Available (Default: fixed IP address)	Available	ODVA Composite Conformance Test Revision CT13	

#### Three selectable lighting modes:

1.	Overdrive Mode	(48 VDC output, Strobe time control: 1 to 1,000 µs, Maximum duty ratio: 7%)
	When an external trigger signal is inp By overdriving the voltage that is appl than when the Light Units operate in a	ut to the CN Controller, the corresponding Light Unit flashes. ied to the Light Unit, you can make the Light Unit flash a few times brighter any other lighting modes.
	Continuous lighting	Overdrive
	ON (24 V) OFF	ON (48 V)
2.	Strobe Mode	(24 VDC Output, Strobe time control: 1 to 10,000 μs)
	When an external trigger signal is inp LED Lights can withstand being turne will reduce heat generation, provide a	ut to the CN Controller, the corresponding Light Unit flashes. ed on and off frequently. Turning on the Light Unit only when taking images more stable radiation output, and increase the service life of the Light Unit.
	Trigger	
	Light Unit OFF	
3.	Continuous Mode	(24 VDC Output, PWM Control: the light intensity can be set to any of 512 levels. )
	The Light Unit will be ON (or OFF) as	long as there is an external trigger signal input to the CN Controller.
	Signal input Light Unit ON OFF	



Option

Controller with EtherNet/IP Interface

> PD3 PD2

> PSB

POD PTU2 PF N-4024-2-EIPT PB-2430-1 CC-ST-1024 BB PJ2 PJ2 CC-PJ-0707 PSCC

STU-3000

PSB4-30024

PSB3-30024 Band-Pass Filters

Lens Filters

Diffusion Plates Polarizing Plates

Light Control Films

Brackets Fixtures, etc.

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Various technical

documents available.

PDF

Drawing

DXF

Drawings

Product

Brochures

Instruction Guides

3D CAD Data Sheets Imaging Examples Digital



Accumulated trigger count, accumulated lighting duration, and error status

Additionally, you can set and check the following values:

Lighting mode, trigger logic, ON/OFF setting for the Light Unit, light intensity, strobe time, and lighting delay The CN Controller also provides TCP/IP commands for the same operations.

#### Specifications

Model name	CN-4024-2-EIPT	
Lighting method	Overdrive (O/D) Mode, Strobe Mode: Strobe lighting Continuous Mode: Continuous lighting	
Drive method	Constant-voltage system	
Intensity control method	O/D Mode, Strobe Mode: Lighting time control Continuous Mode: PWM control	
PWM frequency	125 kHz	
Number of channels	2 channels	
Output ratings (O/D Mode)	48 VDC 5 A max./connector, Total for 2 channels: 7 A max.*1	
Output ratings (Strobe Mode, Continuous Mode)	24 VDC 40 W max./connector, Total for 2 channels: 40 W max.	
External control protocol	EtherNet/IP, TCP/IP	
Strobe time	O/D Mode: 1 to 1,000 μs (in steps of 1 μs) Strobe Mode: 1 to 10,000 μs (in steps of 1 μs)	
Lighting delay	O/D Mode, Strobe Mode: 0 to 10,000 $\mu s$ (in steps of 1 $\mu s)$	
Light intensity	Continuous Mode: Set any of 512 levels	
Trigger input	Terminal block, 3 poles, Solid wires or stranded wires AWG 28 to 22 Maximum duty ratio (O/D Mode): 7%	
Trigger input voltage (rating)	24 VDC	
Power input	Terminal block, 3 poles, Solid wires or stranded wires AWG 24 to 16	
Power input voltage (rating)	24 VDC	
Power input voltage (range)	21.6 to 26.4 VDC	
Average power consumption (typ.)	45 W	
Peak power consumption (max.)	71.3 W *2	
Inrush current (typ.)	6.9 A, 21.4 µs (reference values)	
Insulation withstand voltage, Insulation resistance (i/o-FG)	250 VAC for one minute, Cutoff current: 10 mA, 500 VDC, 20 M $\Omega$ min.	
Operating environment	Temperature: 0 to 40°C, Humidity: 20% to 85% (with no condensation), Indoor use only	
Storage environment	Temperature: -20 to 60°C, Humidity: 20% to 85% (with no condensation)	
Cooling method	Natural air cooling	

1 Confirm the peak current of the LED Lights and use them within the above output current. For information on the availability of your LED Lights, refer to our website. \*2 When you select a power supply, the rated output power must be larger than the

Light Unit Selection

Free Product

Tria

Custom Orders

Product Details

Pricing/ Quotation

Discontinued

Products

above peak power consumption

You can inquire	Sample
using our website	Testing

using our website.

CE marking	EMC standard: Conforms to EN61000-6-2, EN61000-6-4
Environmental regulations	RoHS compliant
Material and surface processing	Material: Aluminum and resin, Surface processing: Black alumite
Weight	500 g max.
Accessories	Instruction Guide

#### Dimensions (mm)





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Fixtures, etc. SM/EL Cables