CREATING CUSTOMER SATISFACTION

Strobe Overdrive Control Units
POD Series

Multi-functional and fine-tunable for various applications

Overdrive
Variable-voltage Control

Ethernet
Enabled

Minimum Strobe Time: 1 µs

10 Scenes Storable

POD-5024-2-PEI
(2-channel model)

POD-22024-4-PEI
(4-channel model)

NEW

Expanded product lineup

LIGHTING SOLUTION
CCS Inc.

Strobe Overdrive Control Units
POD Series

Strobing Combined with Overdriving.

Variable-voltage control **Strobe time control**

You can individually control both brightness and flash duration.

- Intensity **512** levels
- Minimum strobe time **1** µs
- Continuous lighting under PWM control
- Ethernet and Parallel communications
- Storable Scenes

NEW
Expanded product lineup

POD-22024-4-PEI

Strobe time

For manual control and Ethernet communications:

1 to 1,000 µs (in steps of 1 µs)

1,002 to 3,000 µs (in steps of 3 µs)

For parallel communications:
High range: 3 to 3,000 µs(in steps of 3 µs), Low range: 1 to 1,000 µs (in steps of 1 µs)

4 channels with 6 connectors

Light connectors

- **Four SM connectors** (L1, L2, L3, and L4 channels)
- **Two EL connectors** (L1 and L2 channels)

Note: The Light Units corresponding to the L1 or L2 channel operate in the same way.

Trigger Link Function

You can make the Light Units on more than one channel flash linked to a trigger signal that is input through one of the pins in the trigger input connector.

POD-5024-2-PEI

Strobe time

For manual control, Ethernet communications, and parallel communications

1 to 1,000 µs (in steps of 1 µs)

2 channels with 2 connectors

Light connectors

- **Two SM connectors** (L1 and L2 channels)

A Specification Difference between POD-5024-2-PEI and POD-22024-4-PEI

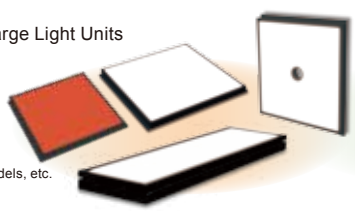
In POD-22024-4-PEI (4-channel model), the lighting mode setting (Overdrive or PWM) is applied to all channels. Please note that the setting cannot be individually specified for each channel as in POD-5024-2-PEI (2-channel model).

Compatible with More Than 700 Models Light Units

These Light Units support strobe lighting using overdrive. They emit light brighter than that of continuous lighting.

EL Connector Models

Available for large Light Units



TH2 large models, etc.

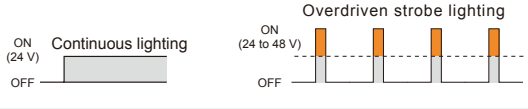
SM Connector Models

Rich product lineup

For information on possible combinations of Light Units with a POD-series Control Unit, refer to our website.
http://www.ccs-grp.com/lnk/qr/pod

What Is "Overdriving"?

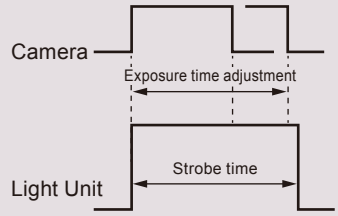
Overdriving is used to emit brighter light by applying a high voltage to an LED Light Unit. This voltage exceeds the voltage for continuous lighting.



Using the POD Series

"I don't want to change the camera settings. I want to adjust only the brightness of the Light Unit."

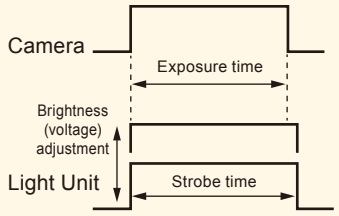
Conventional method



The amount of light is adjusted by changing exposure time.

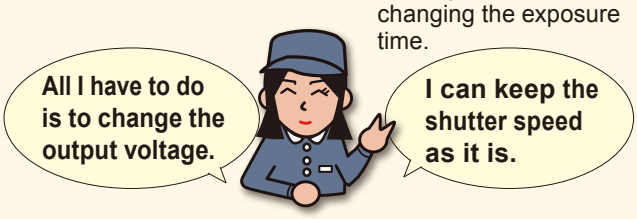
Thus, the shutter speed is decreased.

POD Series



Brightness is adjusted with variable-voltage control.

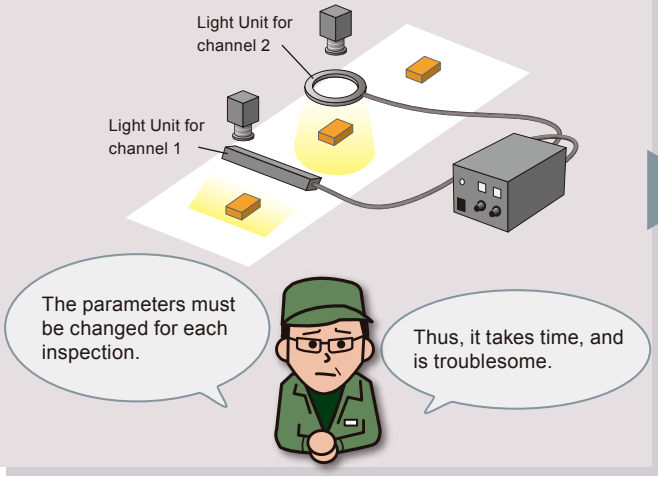
Changing the voltage can be used to adjust the brightness without changing the exposure time.



Switching the scene according to the inspection item.

Conventional method

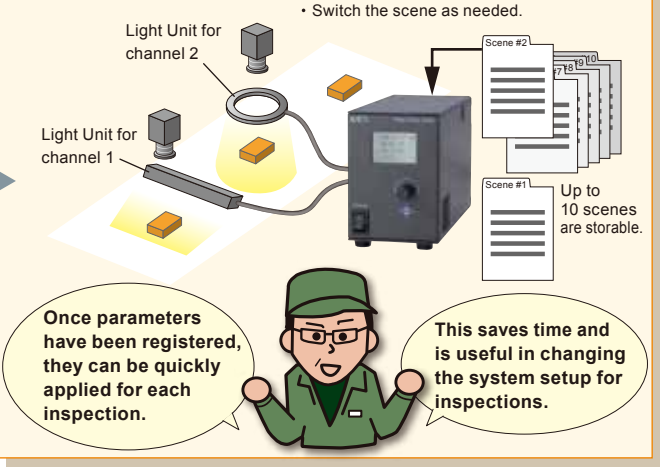
Changing parameters takes time.



POD Series

The best light control in a flash

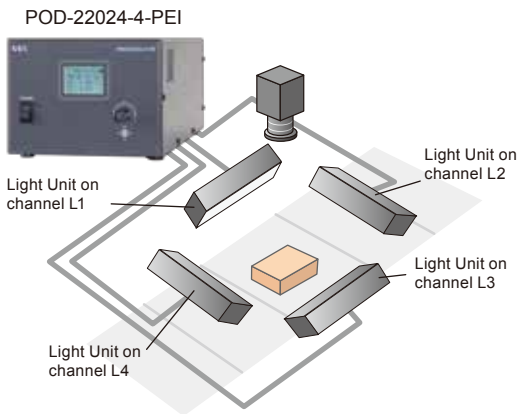
- Register the light control parameters for both Light Units in scenes.
- Switch the scene as needed.



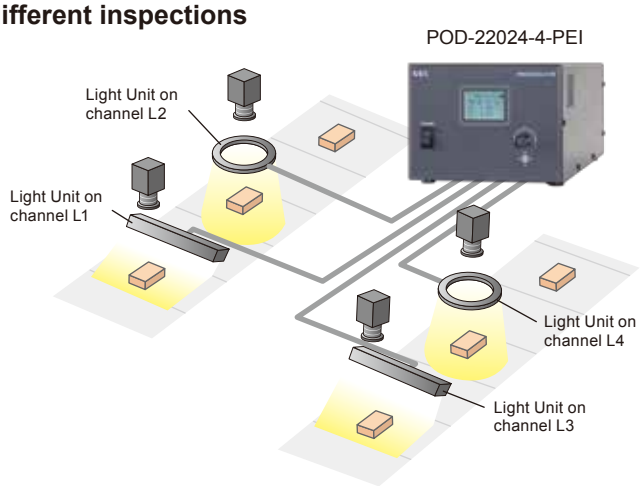
NEW A new function added to the 4-channel model for implementing varied lighting style

Trigger Link Function You can make the Light Units on multiple channels turn ON (or OFF) with a single trigger signal that is input through one of the pins of the trigger input connector.

Simultaneous control of Light Units installed in four directions



Individual control of multiple Light Units for different inspections



For details regarding the Trigger Link function, refer to the instruction guide.

Specifications

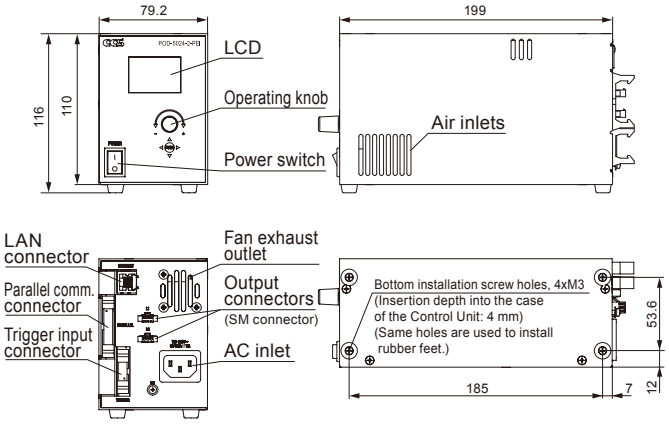
Model name	POD-5024-2-PEI, POD-22024-4-PEI				
Lighting method	Strobe lighting (Overdrive mode), Continuous lighting (PWM mode)				
Drive method	Constant-voltage system				
Intensity control method	Variable-voltage control, PWM control				
Number of channels*1	POD-5024-2-PEI: 2 channels, POD-22024-4-PEI: 4 channels				
Output ratings*2	POD-5024-2-PEI		POD-22024-4-PEI		
	When both channels are in O/D Mode	Output current: 10 A max. (total for 2 channels)	O/D Mode (peak)	Total for all channels: 50 A max. L1, L2: 15 A max./channel (SM connector: 10 A max.) L3, L4: 10 A max./channel	
	When both channels are in PWM Mode	Output power: 45 W max. (total for 2 channels)			
	When the channels are used together with different lighting modes	Output current: 6.3 A max. and Output power: 36 W max. (total for 2 channels)	PWM Mode	Total for all channels: 200 W max. L1, L2: 100 W max./channel (SM connector: 60W max.) L3, L4: 60 W max./channel	
PWM frequency	125 kHz				
Light control settings	Manual	Operation on the front panel	512 levels		
	External	Command input via TCP/IP or UDP/IP communications			
		Signal input through parallel port			
Strobe time settings	Manual	Operation on the front panel	POD-5024-2-PEI: 1 to 1,000 µs (in steps of 1 µs) POD-22024-4-PEI: 1 to 3,000 µs*3		
	External	Command input via TCP/IP or UDP/IP communications			
		Signal input through parallel port			
Lighting delay settings	Manual	Operation on the front panel	0 to 1,000 µs (in steps of 1 µs)		
	External	Command input via TCP/IP or UDP/IP communications			
		Signal input through parallel port			

Input power	100 to 240 VAC (+10%, -15%), 50/60 Hz
Power consumption (typ.)	POD-5024-2-PEI: 65 VA, POD-22024-4-PEI: 260 VA
Inrush current (typ.)	POD-5024-2-PEI: 15 A (at 100 VAC), 36 A (at 240 VAC) from a cold start
	POD-22024-4-PEI: 17 A (at 100 VAC), 40.8 A (at 240 VAC) from a cold start
Ground leakage current	3.5 mA max. (264 VAC, 60 Hz, with no load)
Output voltage (ratings)	Overdrive (O/D) mode: 24 to 48 VDC PWM mode: 24 VDC
Insulation withstand voltage (input-output, input-FG)	1,500 VAC for one minute, Cutoff current: 10 mA, 500 VDC, 20 MΩ min.
Overvoltage category	Category II
Operating environment	Temperature: 0 to 40°C, Humidity: 20% to 85% (with no condensation) Altitude: 2,000 m max., Protective ground class: Class I, Pollution degree: 2, Indoor use only
Storage environment	Temperature: −20 to 60°C, Humidity: 20% to 85% (with no condensation)
Cooling method	Forced air cooling
CE marking	Safety standard: Conforms to EN 61010-1 EMC standard: Conforms to EN61000-6-2, EN61000-6-4
Environmental regulations	RoHS compliant
Material, coating, and surface processing	Steel sheet, Cover thickness: 1.6 mm, Chassis thickness: 1.0 mm, N3 (leather tone)
Weight	POD-5024-2-PEI: 1,500 g max., POD-22024-4-PEI: 3,300 g max.
Accessories	Instruction Guide x1, 2-m-long 3-prong AC power cord with ground terminal x1

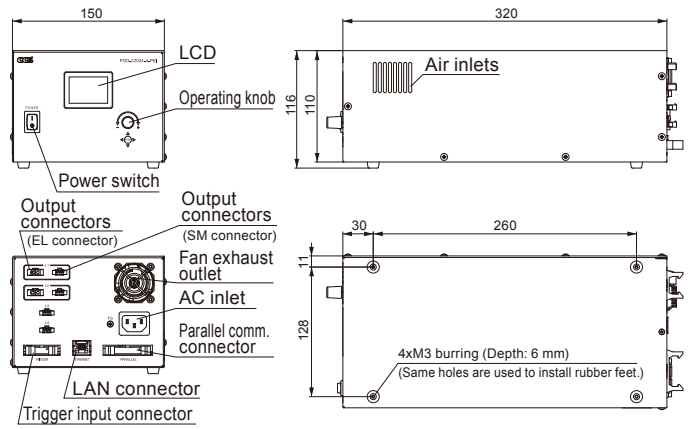
*1 The Light Units corresponding to each channel operate in the same way.
*2 For information on possible combinations of Light Units with a POD-series Control Unit, refer to our website. http://www.ccs-grp.com/lnk/qr/pod
*3 For manual control and Ethernet communications: 1 to 1,000 µs (in steps of 1 µs), 1,002 to 3,000 µs (in steps of 3 µs)
For parallel communications: 3 to 3,000 µs (in steps of 3 µs) for high strobe time range, 1 to 1,000 (in steps of 1 µs) for low strobe time range

Dimensions (mm)

POD-5024-2-PEI CE



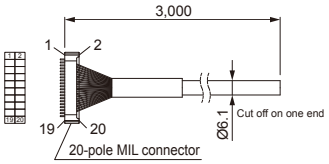
POD-22024-4-PEI CE



Optional Accessories (Sold Separately)

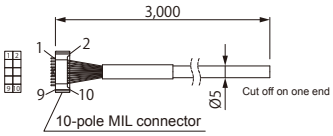
Parallel Communications Cable

Model name: EXCB2-M20-3



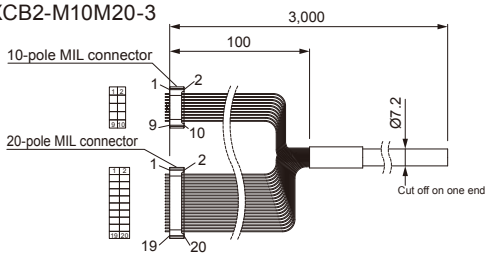
Trigger Input Cable

Model name: EXCB2-M10-3



Parallel Communications and Trigger Input Branch Cable

Model name: EXCB2-M10M20-3



CAUTION

- To ensure proper and safe use of the product, please read the Instruction Guide completely before using the product.
- The design and specifications of this product are subject to change without notification for product improvement.

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 Content current as of July 2017. 02002-01-1512-POD