



Multi-functional and fine-tunable control units



Compliant

POD-5024-2-PEI
(2 channel model)POD-22024-4-PEI
(4 channel model)

The supplied AC cord is for use with 100 to 120 VAC. If you would like to use the control unit with 200 to 240 VAC, you must procure another appropriate AC power cord.

➤ Features

- Strobe lighting. Overdrive specifications.
- Voltage control during overdrive operation.
- Ethernet and parallel communications.
- Continuous lighting under PWM control.
- Sets of parameters related to light control can be registered.

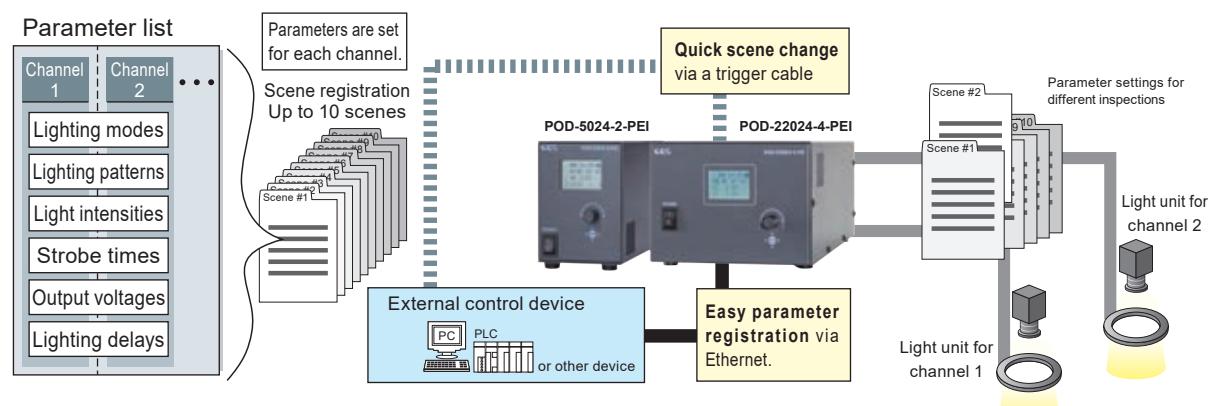
- The light intensity can be set to one of 512 levels.
- Output voltage: 24 to 48 VDC
- Minimum strobe time of 1 μ s.
- Strobe delay: 0 to 1,000 μ s (in steps of 1 μ s)
- 2 channels (POD-5024-2-PEI), 4 channels (POD-22024-4-PEI).
- Trigger link function (POD-22024-4-PEI).

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.

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).

● Registering Scenes (sets of parameters)



You can register sets of parameters called scenes that consist of the light control settings for all channels. By just applying a scene to the channels, you can easily change the settings. Up to 10 scenes can be registered. Refer to the User Manual for details. For information on possible combinations of light units with a POD Series control unit, refer to our website. <https://www.ccs-grp.com/lnk/qr/pod>

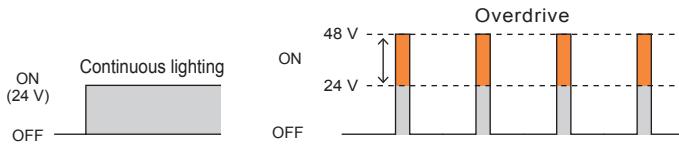
PD4
PD3
PD2
CD-VA
POD
PTU2
PF
CX
CN-EPOE
CN-4024-2-EIPT
PB-2430-1
CC-ST-1024
PJ2
PJ
CC-PJ-0707
PSCC
PSB4
PSB3-30024
Lens Filters
Diffusion Plates
Polarizing Plates
Light Control Films
Fixtures, etc.
Brackets
SM/EL Cables

Options

● 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.



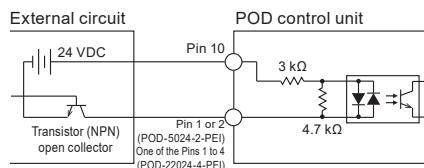
*The output characteristics and light intensity setting values for starting light emission vary with the combinations of light units and power supplies.

Example Connections

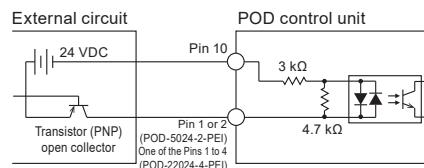
Refer to the User Manual for details.

Example connections of external trigger signal

■ Sink type (NPN)



■ Source type (PNP)



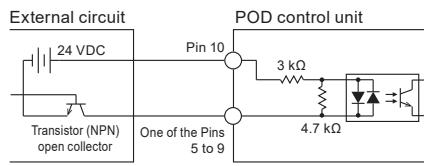
Connection specifications (for each terminal)

Rated input voltage	Maximum input voltage	Photocoupler ON voltage / ON current	Photocoupler OFF voltage / OFF current	Response time
24 VDC	26.4 VDC	21.6 VDC min. / 6 mA min.	1.5 VDC max. / 1 mA max.	Refer to the sequence diagrams on the User Manual.

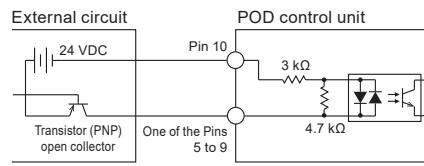
Setting of the LGC-TRG item on the COM Menu	Photocoupler	When lighting mode is set to O/D Mode, or when lighting mode is set to PWM Mode and lighting pattern is set to Strobe Lighting Pattern	When lighting mode is set to PWM Mode and lighting pattern is set to Continuous Lighting Pattern
ACTIVE HI	ON	No change	Light Unit OFF
	OFF	Light unit flashes for the strobe time.	Light Unit ON
ACTIVE LO	ON	Light unit flashes for the strobe time.	Light Unit ON
	OFF	No change	Light Unit OFF

Example connections of external trigger signal (Applying scenes)

■ Sink type (NPN)



■ Source type (PNP)

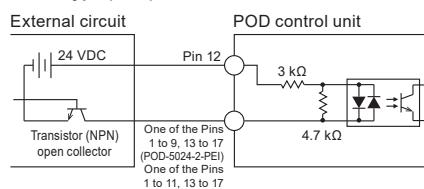


Photocoupler	Data	
	When the LGC-PAR item on the COM Menu is set to ACTIVE HI	When the LGC-PAR item on the COM Menu is set to ACTIVE LO
ON	1	0
OFF	0	1

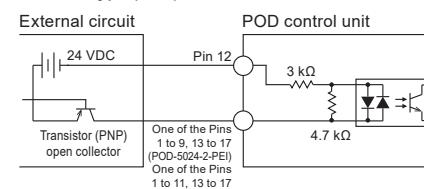
Scene number	Data				LCD
	SC3	SC2	SC1	SC0	
00	0	0	0	0	S01
01	0	0	0	1	S02
02	0	0	1	0	S03
03	0	0	1	1	S04
04	0	1	0	0	S05
05	0	1	0	1	S06
06	0	1	1	0	S07
07	0	1	1	1	S08
08	1	0	0	0	S09
09	1	0	0	1	S10

Example connections of external signal (Parallel communications)

■ Sink type (NPN)



■ Source type (PNP)



Photocoupler	Data	
	When the LGC-PAR item on the COM Menu is set to ACTIVE HI	When the LGC-PAR item on the COM Menu is set to ACTIVE LO
ON	1	0
OFF	0	1

Photocoupler	Connection specifications (for each terminal)				
	Rated input voltage	Maximum input voltage	Photocoupler ON voltage / ON current	Photocoupler OFF voltage / OFF current	Response time
	24 VDC	26.4 VDC	21.6 VDC min. / 6 mA min.	1.5 VDC max. / 1 mA max.	Refer to the sequence diagrams on the User Manual.

POD Series



Refer to our website for product details.

CCS POD

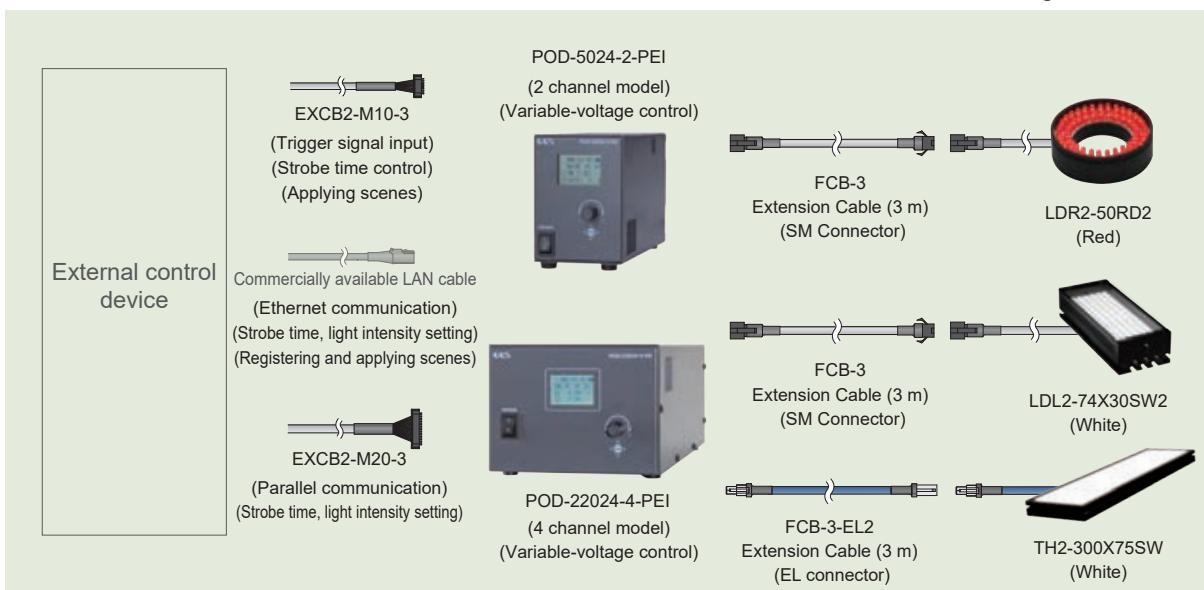
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➤ Example System Configuration

Example:

External control device — External control cable — Control unit — Extension cables — LED light



➤ 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 or PWM control					
Number of channels	POD-5024-2-PEI: 2 channels / POD-22024-4-PEI: 4 channels					
Number of output connectors	POD-5024-2-PEI	L1: 1 (SM connector), L2: 1 (SM connector)				
	POD-22024-4-PEI	L1: 2 (EL connectors, SM connectors), L2: 2 (EL connector, SM connector), L3: 1 (SM connector), L4: 1 (SM connector)				
Output ratings ^{**1}	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 4 channels: 50 A max. L1, L2: 15 A max./channel (EL connector: 15 A max./channel) (SM connector: 10 A max./channel) L3, L4: 10 A max./channel		
	When both channels are in PWM Mode	Output power: 45 W max. (total for 2 channels)				
Output voltage (ratings)	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 4 channels: 200 W max. L1, L2: 100 W max./channel (EL connector: 100 W max./channel) (SM connector: 60 W max./channel) L3, L4: 60 W max./channel		
	Overdrive (O/D) mode: 24 to 48 VDC, PWM mode: 24 VDC					
	PWM frequency	125 kHz				
Light control settings	Manual	Operation on the front panel	512 levels	POD-5024-2-PEI: 1 to 1,000 μ s (in steps of 1 μ s) POD-22024-4-PEI: 1 to 3,000 μ s ^{**2}		
	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 μ s (in steps of 1 μ s) POD-22024-4-PEI: 1 to 3,000 μ s ^{**2}	0 to 1,000 μ s (in steps of 1 μ s)		
	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)					
Insulation withstand voltage (input-output, input-FG)	1,500 VAC for one minute, Cutoff current: 10 mA, 500 VDC, 20 M Ω min.					
Oversupply category	Category II					
Overcurrent Protection	PWM control: Operates at 110% min. of output current; Strobe lighting: Operates at 120% min. of output current					
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					
Applicable standards	CE, UKCA, 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	User Manual x1, 2-m-long 3-prong AC power cord with ground terminal x1					

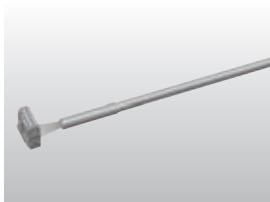
^{**1} For information on possible combinations of light units with a POD Series control unit, refer to our website, <https://www.ccs-grp.com/lnk/qr/pod>^{**2} For parallel control and Ethernet communications: 1 to 1,000 μ s (in steps of 1 μ s), 1,002 to 3,000 μ s (in steps of 3 μ s)For parallel communications: 3 to 3,000 μ s (in steps of 3 μ s) for high strobe time range, 1 to 1,000 (in steps of 1 μ s) for low strobe time range

Options

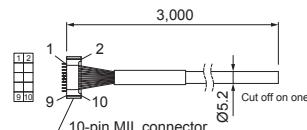
External control cables

Trigger input cable

Used to input an external trigger signal of parallel bits. Used for performing strobe lighting and scene application.



Model name: EXCB2-M10-3



PIN No.	Line color	Marking
1	Orange	Black1
2	Orange	Red1
3	Gray	Black1
4	Gray	Red1
5	White	Black1
6	White	Red1
7	Yellow	Black1
8	Yellow	Red1
9	Pink	Black1
10	Pink	Red1

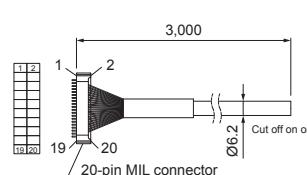
Dimensions (mm)

Parallel communication cable

Used for performing external control via parallel communication.



Model name: EXCB2-M20-3



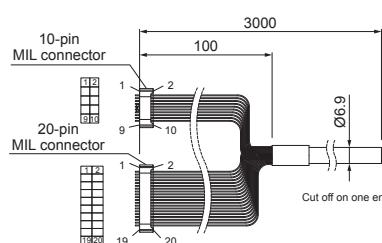
PIN No.	Line color	Marking	PIN No.	Line color	Marking
1	Orange	Black1	11	Orange	Black2
2	Orange	Red1	12	Orange	Red2
3	Gray	Black1	13	Gray	Black2
4	Gray	Red1	14	Gray	Red2
5	White	Black1	15	White	Black2
6	White	Red1	16	White	Red2
7	Yellow	Black1	17	Yellow	Black2
8	Yellow	Red1	18	Yellow	Red2
9	Pink	Black1	19	Pink	Black2
10	Pink	Red1	20	Pink	Red2

Parallel communication/Trigger input branch cable

Branch cable that combines parallel communication and trigger input cables into a single cable.



Model name: EXCB2-M10M20-3

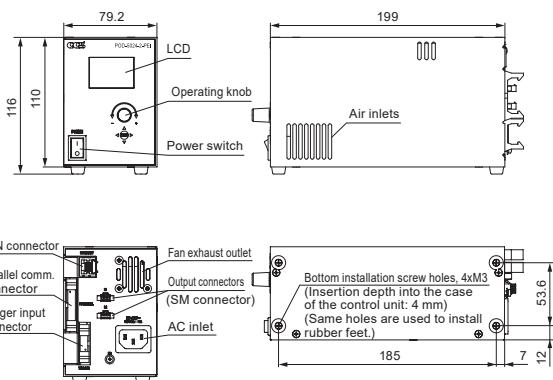


20-pin MIL connector		
PIN No.	Line color	Marking
1	Orange	Black2
2	Orange	Red2
3	Gray	Black2
4	Gray	Red2
5	White	Black2
6	White	Red2
7	Yellow	Black2
8	Yellow	Red2
9	Pink	Black2
10	Pink	Red2

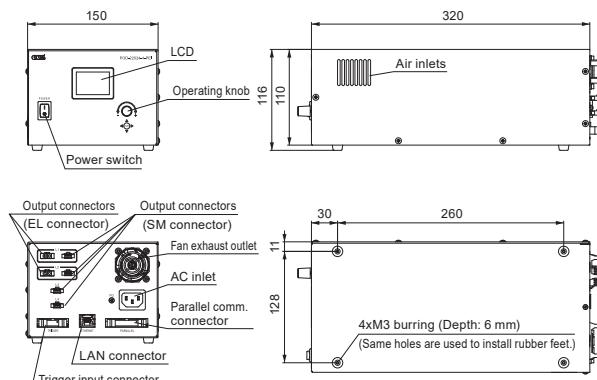
10-pin MIL connector		
PIN No.	Line color	Marking
1	Orange	Black1
2	Orange	Red1
3	Gray	Black1
4	Gray	Red1
5	White	Black1
6	White	Red1
7	Yellow	Black1
8	Yellow	Red1
9	Pink	Black1
10	Pink	Red1

Dimensions (mm)

POD-5024-2-PEI



POD-22024-4-PEI



Vision Light Tech
creating optical solutions

PD4
PD3
PD2
CD-VA
POD
PTU2
PF
CX
CN-EPOE
CN-4024-2-EIPT
PB-2430-1
CC-ST-1024
PJ2
PJ
CC-PJ-0707
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