

Strobe Overdrive Control Units POD Series





CCS Inc.

Strobe Overdrive Control Units

Series

Strobing Combined with Overdriving.

Variable-voltage control

Strobe time control

You can individually control both brightness and flash duration.



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.

Overdriven strobe lighting ON ON Continuous lighting (24 to 48 V) OF

OFF

Using the POD Series

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



Switching the scene according to the inspection item.



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



| Speci | ficati | ons | | | | | |
|----------------------------|---|-------------------------------------|---|--------------------|---|---|---|
| Model name | POD-5024-2-PEI, POD-22024-4-PEI | | | | | Input power | 100 to 240 VAC (+10%, -15%), 50/60 Hz |
| Lighting method | Strobe lighting (Overdrive mode), Continuous lighting (PWM mode) | | | | | Power consumption (typ.) | POD-5024-2-PEI: 65 VA, POD-22024-4-PEI: 260 VA |
| Drive method | Constant-voltage system | | | | | Inrush current (typ.) | POD-5024-2-PEI: 15 A (at 100 VAC), 36 A (at 240 VAC) from a cold start |
| Intensity control method | Variable-voltage control, PWM control | | | | | | POD-22024-4-PEI: 17 A (at 100 VAC), 40.8 A (at 240 VAC) from a cold start |
| Number of channels*1 | POD-5024-2-PEI: 2 channels, POD-22024-4-PEI: 4 channels | | | | | Ground leakage current | 3.5 mA max. (264 VAC, 60 Hz, with no load) |
| Output ratings*2 | POD-5024-2-PEI | | | | POD-22024-4-PEI | Output voltage | Overdrive (O/D) mode: 24 to 48 VDC |
| | When both chann | | Output current: 10 A max. | | Total for all channels: 50 A max. | (ratings) | PWM mode: 24 VDC |
| | are in O/D Mode When both channels are in PWM Mode | | (total for 2 channels) Output power: 45 W max. | O/D Mode (peak) | L1, L2: 15 A max./channel (SM connector: 10 A max.) L3, L4: 10 A max./channel | Insulation withstand voltage (input-output, input-FG) | 1,500 VAC for one minute, Cutoff current: 10 mA, 500 VDC, 20 M Ω min. |
| | | | (total for 2 channels) | PWM Mode | Total for all channels: 200 W max. | Overvoltage category | Category II |
| | 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) | | L1, L2: 100 W max./channel (SM connector: 60W max.) L3, L4: 60 W max./channel | 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 |
| PWM frequency | 125 kHz | | | | | Storage environment | Temperature: -20 to 60°C, Humidity: 20% to 85% (with no condensation) |
| Light control settings | Manual | lanual Operation on the front panel | | | | Cooling method | Forced air cooling |
| | External | Comman | Command input via TCP/IP or UDP/IP communications | | 5 512 levels | CE marking | Safety standard: Conforms to EN 61010-1 EMC standard: Conforms to EN61000-6-2, EN61000-6-4 |
| | | Signal | 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: | Environmental regulations | RoHS compliant |
| | External Command input via TCP/IP or UDP/IP communication | | | | | Material, coating, and | Steel sheet, Cover thickness: 1.6 mm, |
| | Signal input through parallel p | | | ort | 1 to 3,000 µs*3 | surface processing | Chassis thickness: 1.0 mm, N3 (leather tone) |
| Lighting delay settings | Manual Operation on the front panel | | | | | Weight | POD-5024-2-PEI: 1,500 g max., POD-22024-4-PEI: 3,300 g max. |
| | External | Command | mmand input via TCP/IP or UDP/IP communications | | (in steps of 1 us) | Accessories | Instruction Guide x1, 2-m-long 3-prong AC power cord with ground terminal x1 |
| | | Signal input through parallel port | | | | | |

*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



Optional Accessories (Sold Separatel)

Parallel Communications Cable

Model name: EXCB2-M20-3



Trigger Input Cable







Parallel Communications and Trigger Input Branch Cable



"CCS", "LIGHTING SOLUTION", and "POD" are registered trademarks or trademarks of CCS Inc.

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.

CCS CCS Inc.

Headquarters

Shimodachiuri-agaru, karasuma-dori, kamigyo-ku, Kyoto 602-8011 JAPAN TEL : +81-75-415-8284 / FAX : +81-75-415-8316 URL : http://www.ccs-grp.com/

E-mail : sales@ccs-inc.co.jp CCS Asia PTE LTD

63 Hillview Avenue #07-10, Lam Soon Industrial Building, Singapore 669569 TEL : +65-6769-1669 / FAX : +65-6769-3422 URL : http://www.ccs-asia.com.sg/ Email : sales@ccs-asia.com.sg

CCS America. Inc

6 Lincoln Knoll Lane, Suite 102, Burlington, MA. 01803, U.S.A. TEL: +1-781-272-6900 / FAX: +1-781-272-6902 URL : http://www.ccsamerica.com/ Email : info@ccsamerica.com

CCS China Inc. Head Office

17B, China Economic Trade Building, 7Rd Zizhu, Zhuzilin, Futian District, Shenzhen 518040 P.R.China TEL : +86-755-8279-0477 / FAX : +86-755-8279-0478 URL : http://www.ccs-inc.cn/ Email : ccschina@ccs-inc.co.jp

CCS Europe NV/SA

Bergensesteenweg 421B, 1600 Sint-Pieters-Leeuw, Belgium TEL : +32-(0)2-333-0080 / FAX : +32-(0)2-333-0081 Email : info@ccseu.com

CCS China Inc. Shanghai Office Room 308B-309, CIMIC Tower No.1090 Century Avenue, Pu Dong New Area, Shanghai 200120, P.R. China TEL : +86-21-5835-8728 / FAX : +86-21-5835-8928 URL : http://www.ccs-inc.cn/ Email : ccschina@ccs-inc.co.jp