# **Control Units for CCS LED Lights**

Please select a best-suited control unit according to your intended use and objective.

# **Analog Control Units**

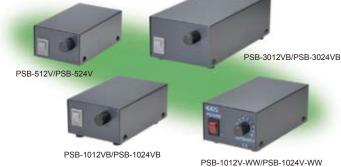
## **PSB** Series

### CCS Standard Analog Control Units

\*Use the PD2 Series of Digital Control Units if detailed control settings, control accuracy, or reproducibility is desired.

The PSB Series is an analog control unit series providing stepless intensity control through variable voltage control. It is ideal for continuous use with cameras having a shutter speed of 1/4,000 or faster. Worldwide type also available.

\* Models with lock of dimming control knob are available as option. Models: PSB-512VL / PSB-524VL / PSB-1012VBL / PSB-1024VBL / PSB-3012VBL / PSB-3024VBL



CE

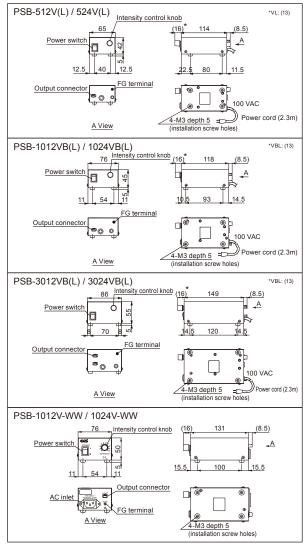
Models with CE Marking PSB-1012V-WW / PSB-1024V-WW

#### Specifications

Model	PSB-512V	PSB-512VL	PSB-524V	PSB-524VL	
Direct Number	2000229	2000231	2000233	2000236	
Lighting method	Constant lighting				
Drive method	Constant-voltage system				
Light control method	Variable voltage control				
Number of channels	1 channel				
Applicable illuminators (rating)	12V / 5W 24V / 5W				
Input voltage (rating)	100 to 120V AC				
Power consumption (typ.)	15VA				
Weight (typ.)	420g				
Model	PSB-1012VB	PSB-1012VBL	PSB-1024VB	PSB-1024VBL	
Direct Number	2000185	2000187	2000194	2000197	
Lighting method	Constant lighting				
Drive method	Constant-voltage system				
Light control method	Variable voltage control				
Number of channels	1 channel				
Applicable illuminators (rating)	12V / 10W 24V / 10W		0W		
Input voltage (rating)	100 to 120V AC				
Power consumption (typ.)	27VA				
Weight (typ.)	470g				
Model	PSB-3012VB	PSB-3012VBL	PSB-3024VB	PSB-3024VBL	
Direct Number	2000206	2000209	2000215	2000219	
Lighting method	Constant lighting				
Drive method	Constant-voltage system				
Light control method	Variable voltage control				
Number of channels	1 channel				
Applicable illuminators (rating)	12V / 30W		24V / 30W		
Input voltage (rating)	100 to 120V AC				
Power consumption (typ.)	78VA				
Weight (typ.)	700g				
Model	PSB-1012V-WW		PSB-1024V-WW		
Direct Number	2000178		2000191		
Lighting method	Constant lighting				
Drive method	Constant-voltage system				
Light control method	Variable voltage control				
Number of channels	1 channel				
Applicable illuminators (rating)	12V / 10W 24V / 10W		0W		
Input voltage (rating)	100 to 240V AC				
Power consumption (typ.)	27VA				

470g

#### Dimension Diagrams (Unit: mm)



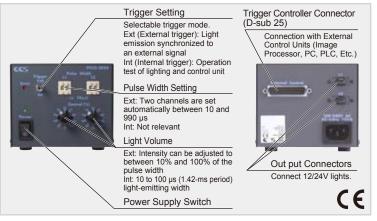
Direct Number : A direct number is a 7-digit number assigned to a CCS product. You can easily access the web page providing information on any desired product by simply entering the direct number in the space provided on the CCS website pages for machine vision. (Refer to the back cover of this brochure.)

Weight (typ.)

## Strobe Control Units PTU2-3012/PTU2-3024 Compatible with more than 300 models of CCS LED lights

The PTU2 control unit Series enables CCS standard lights to be used with strobes. It enables the lights to emit several times brighter than using the On/Off control function of the conventional PSB and PD2 Series, or by strobe lighting using STU-3000. The units have two independent circuits with separate controls for each circuit. The strobe illumination time can be set from 10 µs to 990 µs using rotary controls.

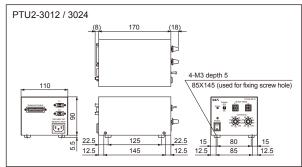
#### Part Names and Functions



#### Specifications

Model	PTU2-3012	PTU2-3024	
Direct Number	2000540	2000541	
Output	2 circuits max, 27W		
Illumination Mode	(Strobe) Internal Trigger/External Trigger		
Trigger Input	Photocoupler Input (5 mA), with Insulated Power Supply		
Power Supply	100 to 240V AC 78VA		
Output Connector	SMP-02V X 2 (12V) / SMP-03V X 2 (24V)		
Trigger Input Connector	D-sub 25pin, male		
Strobe illumination Width	10µs to 990µs, set with 2-digit thumb-rotary switch		
Trigger Cycle	Int: 1msec, Ext: 1msec or more at 10% duty or less		
Option	External Trigger Cable: EXCB2-25-3 (3m) Refer to page 90.		

#### Dimension Diagrams (Unit: mm)



\*The PTU2 Series produces strobing with overdrive. Overdrive boosts the voltage and current supplied to the Light to produce a higher output.

# Strobe Unit

Achievement of strobe function in combination with CCS's digital control unit



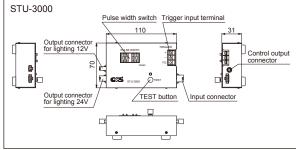
By connecting the STU-3000 to CCS's PD2 Series digital control units, a constant lighting unit can be used as a strobe light. The one-shot circuit in the adaptor is activated by external trigger signals, the power ON/OFF supply is controlled at a defined pulse width, and an LED light is flashed as a strobe light. The strobe flash time can be set between 0.01 and 99.99msec. by means of the four-digit digital switch.

#### Specifications

Direct Number	2000366			
Input	SMP-04V-BC (12V DC or 24V DC)			
	M3 terminal block 3P (Trig+ Trig- FG)			
Output	SMP-02V-BC (12V DC)			
	SMP-03V-BC (24V DC)			
	M3 jack (ON/OFF control signal)			
Trigger	Photo-coupler input 5V to 24V DC Current: 5mA max.			
	Pulse width: 20 µs min. Rising / falling edge: 10 µs max.			
ON/OFF	Connection to lighting ON/OFF jack of the PD/PD2 control unit			
control signal	Inside: Signal Outside: GND			
ON pulse width	Set with the 4-digit thumbwheel switch (0.01 to 99.99ms).			
Light delay	10 μs max.			
Accessories	ON/OFF control cable Power cable (12V) / Power cable (24V)			
Weight	400g max.			
Connectable control unit	PD2-1012/1024/3012/3024/5012/5024/3012-2/3024-2/			
	Other optional control unit			

\*For uses requiring large light volumes in short time periods, use the PTU2 Series.

#### Dimension Diagrams (Unit: mm)



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If you register as a CCS member, you can download all materials (such as PDF or DXF drawings and operation manuals) from our website. You can also request us to select the appropriate Light Unit, borrowing demonstration units and to quote the product's price. Please go ahead and register as a member today. (Refer to back cover of this brochure.)