

How to Choose a CCS Controller

Need to know

1. Which lights will be connected to the controller
2. Voltage of lights
 - a. If no voltage is provided the light is current driven and needs a current controller
 - b. This document will focus on 24V lights only
3. Wattage of lights
4. Applicable or recommended controller series

How to Select the Model

After selecting the desired controller series based on the light unit's recommended controllers, the next step is to select a controller model that is the right size for the lights.

Steps:

1. Confirm light(s) are 24V
2. Count total number of channels
3. Calculate total wattage of all lights
4. Check controller specifications for number of channels
5. Check controller specifications for applicable light unit (rated)
6. Check controller specifications for desired communication and illumination methods

Example: 2 LDL2-242X30RD2

A controller that is large enough for (2) LDL2-242X30RD2 lights that will be strobed while the camera is taking an image and has Ethernet communication.

1. Confirm light(s) are 24V: **Yes**
2. Total number of channels: **2**
3. Total wattage of all lights: **38W + 38W = 76W**
4. Check controller specifications for number of channels: **2 or 4 channel options available**
5. Check controller specifications for applicable light unit (rated): **60W or 120W options available - 120W version is required as the total wattage is more than 60W**
6. Check controller specifications for desired communication and illumination methods: **Ethernet communication and strobe lighting method**

Lights

Model Name *1	Input Voltage	Power Consumption			Option	Extension Cables	Recommended Control Units
		RD (Red)	SW*2 (White)	BL (Blue)			
LDL2-242X30□□2(-WD) 1	24 V	38 W 3	38 W	38 W			
LDL2-290X30□□2(-WD)	24 V	46 W	46 W	46 W			
LDL2-314X30□□2(-WD)	24 V	50 W	50 W	50 W			

PD4

PD3

POD*5

PD4 Controller

Common Specification: Ethernet Type

Model name	PD4-6024-4-E	PD4-6024-2-E	PD4-12024-2-E	PD4-12024-4-E
Input voltage (rated)	AC 100 to 240 V(±10 %)			
Lighting method	Continuous / Strobe lighting (no dimming) 6			
Drive method	Constant-voltage system			
Intensity control method	PWM control			
No. of channels	4 channels	2 channels	2 channels 4	4 channels
Applicable light unit (rated)	Light units with 24 VDC input, Total channels: 60 W (SM connector: one 60 W connector)		Light units with 24 VDC input, Total channels: 120 W 5 (SM connector: one 60 W connector, EL connector: one 120 W connector) *When using EL connector: L1 (CH1), L2(CH2)	
PWM frequency			125 kHz	
Power consumption (typ.)	152 VA		168 VA	
Frequency			50/60 Hz	
Output voltage (rated)			DC 24 V	
Intensity setting			1,024 step	
External control	6 Ethernet comm. TCP/IP UDP/IP (CCS Command Comm, PLCCOM Comm (MC Protocol · FINS Command))			
Operating temperature and humidity	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 temperature and humidity	Temperature: -20 to 60°C, Humidity: 20% to 85% (with no condensation)			
Cooling method	Natural air cooling			
Material/Surface processing	Steel sheet, cover thickness: 1.6 mm, chassis thickness: 1.0 mm, black (leather satin)			
Weight	1.5 kg max.			
Accessories	One hardware manual, one Power Terminal Block Cover, two M4 screws for the cover, one 2-m-long 3-prong AC power cable with ground terminal *1, one Trigger Terminal Block			