

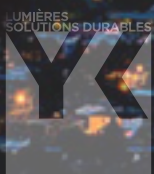
# DIMALED DLight

LED Control System

**5** YEARS  
12-24V  
IP67

Adjust the brightness of your sign  
according to surrounding light

- Keep your application properly lit at any time
- Reduce light pollution
- Easy to use, Autonomous system
- Outdoors or indoors
- Choose 8 pre-set programs or Customize your own



YAKI  
3 allée des vignes,  
91160 CHAMPLAN - FRANCE

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3 allée des vignes,  
91160 CHAMPLAN - FRANCE



## SOPHISTICATED DIMMING SYSTEM MADE A DELIGHT

Add a brain to your sign that makes it function at its best by adapting to its environment, delivering brightness and savings at the right time.

### BENEFITS:

The sign or illuminated application will shine beautiful at its brightest when the night starts (when the sign is most visible, it will also be most noticeable). Additional energy-savings of 40% (compared with same application but not-dimmed). Assure your client full compliance with fast-changing Light-Pollution normatives and/or customers new preferences to new lighting conditions around the application (increased or decreased quantity of illuminated elements to compete with for customer's attention, or cloudy days).

The 24-hrs applications will benefit the most because the daylight and nightlight conditions are very different and thus call for a different light brightness. Examples: indoor signs located inside airports, train stations, gas stations, etc.

Complete IP68 system that is easy to set.

Invisible system but can be controlled by remote control.

## TECHNICAL DATA

Model	DIMALED DLight Controller 1x8A 12-24V and Sensor IP68	Dimaled mini booster Single Color 1x8A 12-24V IP68	DIMALED DLight Remote
Code	21100039	21100015	21100038
PWM	256 levels	-	-
Overload protection	Yes	Yes	-
Overheat protection	Yes	Yes	-
Working Voltage	DC 12-24V	DC 12-24V	-
Connecting Distance	< 10 meter (open area)	-	< 10 meter (open area)
Working Temperature	-30 to +50°C	-30 to +50°C	-
Rated Output Current	1x8A	1x8A	-
PWM Frequency	1 KHz	-	-
Efficiency	-	>97 %	-
IP Grade	IP68	IP68	-
Dimension	87x21x8,5 mm	87x21x8,5 mm	115x52x5 mm
Battery	-	-	CR2025 battery

## LIFETIME & WARRANTY

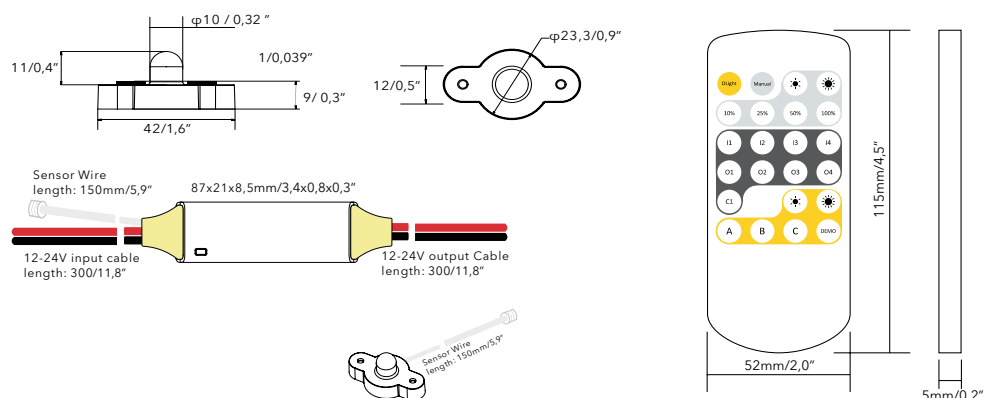
- Warranty : 5 years
- Lifetime : 50,000 hrs

## NORMS & CERTIFICATES

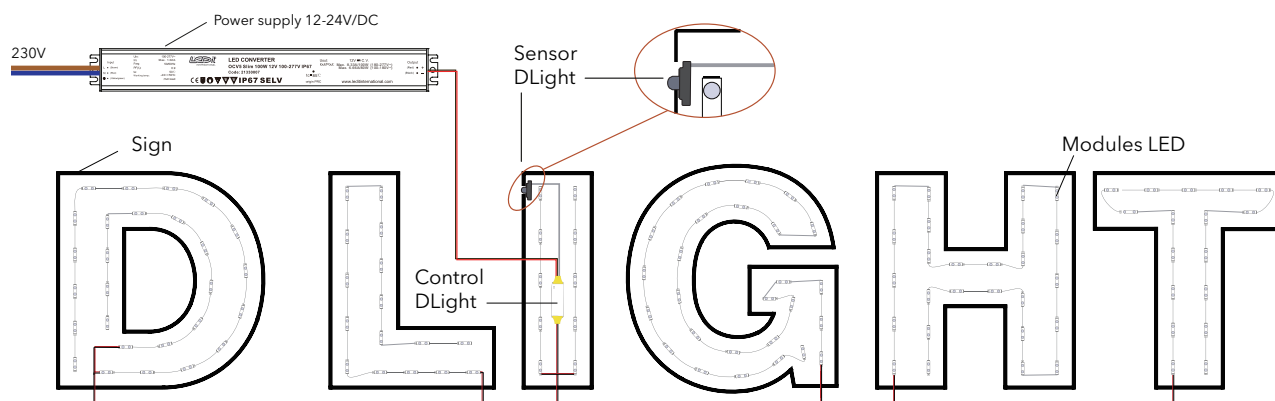
- EN 62479:2010
- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
- ETSI EN 301 489-1 V2.2.0:2017-03
- ETSI EN 301 489-3 V2.1.1:2017-03
- ETSI EN 300 220-1 V3.1.1:2017-02
- ETSI EN 300 220-2 V3.1.1:2017-02



## DIMENSIONS

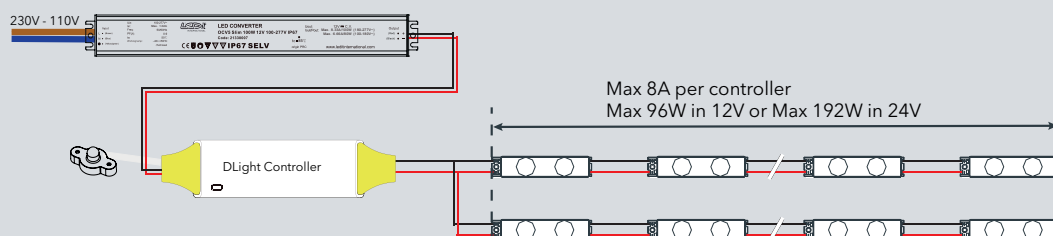


## WIRING CONCEPT

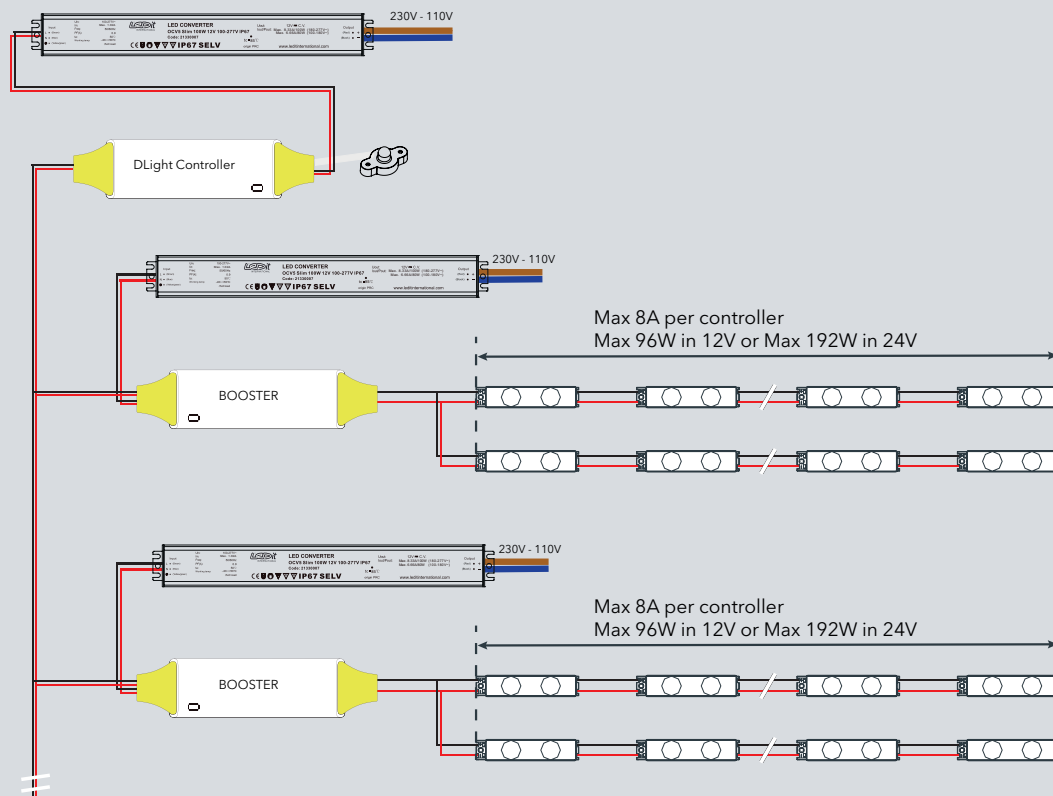


## WIRING CONCEPT

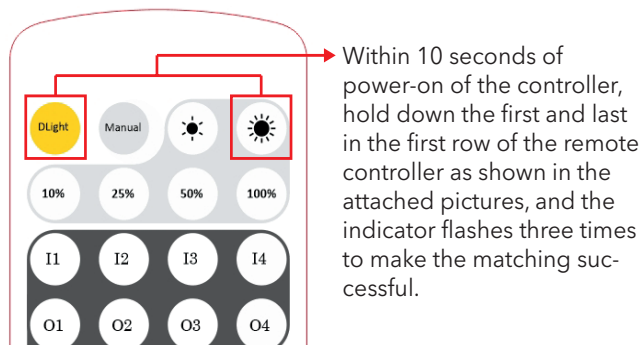
For SYSTEMS < 96W/12V or < 192W/24V



For SYSTEMS > 96W/12V or > 192W/24V



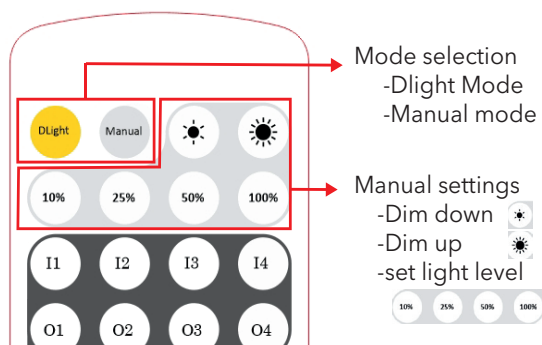
## PAIRING METHOD



## UNPAIRING METHOD

That is, any remote controller can be paired once to remove other remote controllers.

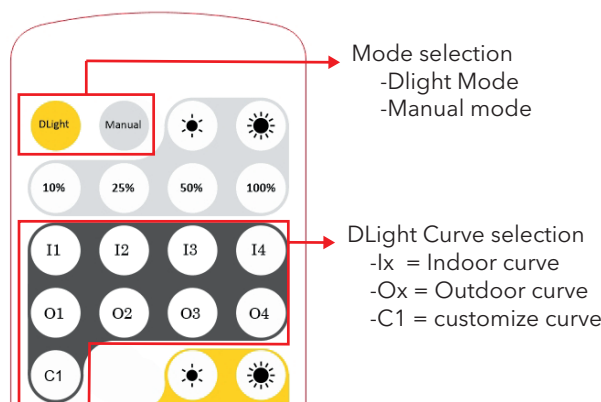
## MANUAL MODE



Manual mode allows you to set the light level of your choice and adjust the brightness of the sign to the surrounding light environment.

It gives you the flexibility to be brighter than other signs nearby, and also to dim it easily if required by new emerging regulations or neighbours are not happy with the light produce by the sign.

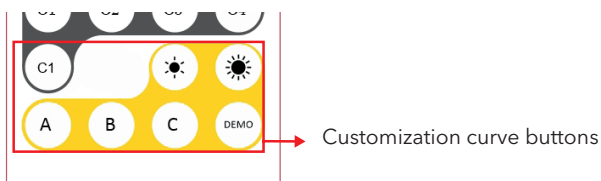
## DLIGHT MODE



We preset 6 different curves into the controller. You can select these curves by pushing the button I1 to O4. To see how are these curves, please see page 5.

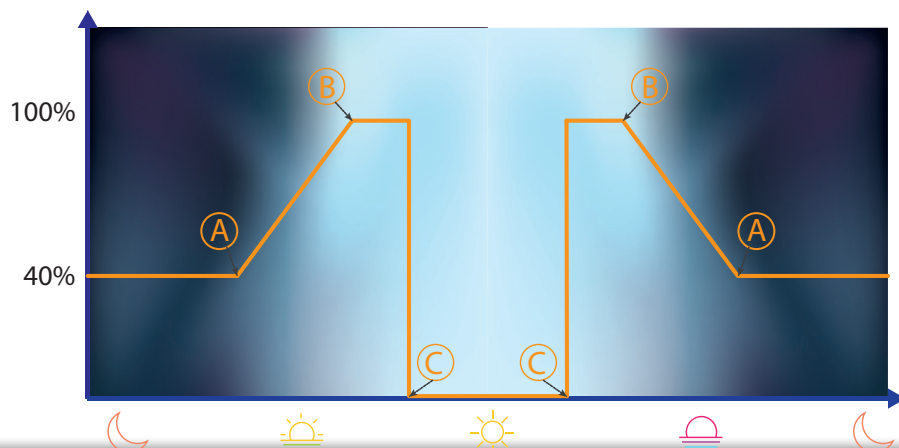
C1 is the customized curve that could be set as you wish.

## CUSTOMIZATION MODE



This part is to customize the curve C1. Each point A, B and C can be set at different values and at different daylight levels.

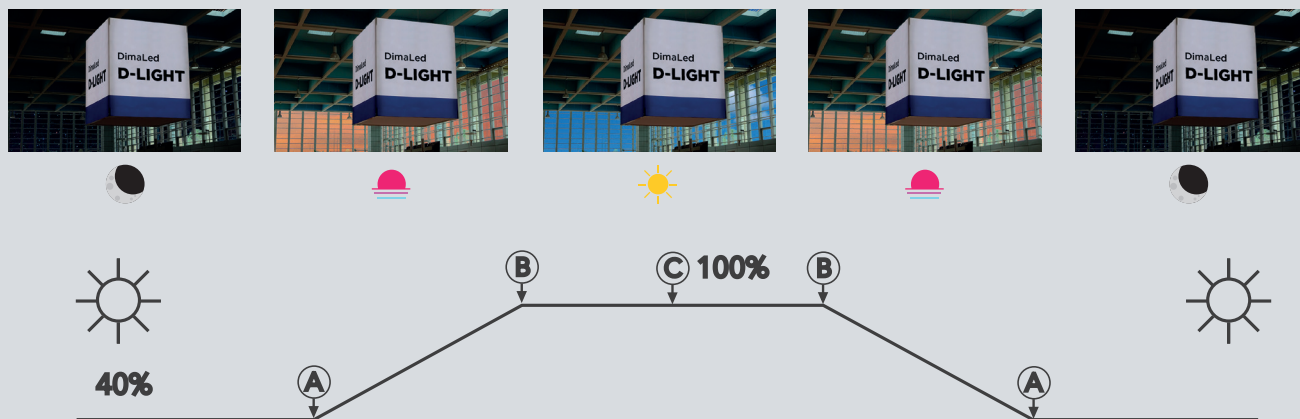
The following curve can be customized easily, see page 6.



## DLIGHT MODE WITH PRESETS

By pushing the Dlight button and lx or Ox, you select a preset curve already installed in the controller.  
Below the details of these curves.

### INDOOR CURVE



### OUTDOOR CURVE



### INDOOR CURVE PRE-SETTINGS

	Points	% Brightness	Sensor luxes
<b>I1</b>	<b>A</b>	80%	100 lux
	<b>B</b>	100%	900 lux
	<b>C</b>	100%	2500 lux
<b>I2</b>	<b>A</b>	60%	100 lux
	<b>B</b>	100%	900 lux
	<b>C</b>	100%	2500 lux
<b>I3</b>	<b>A</b>	40%	100 lux
	<b>B</b>	100%	900 lux
	<b>C</b>	100%	2500 lux
<b>I4</b>	<b>A</b>	20%	100 lux
	<b>B</b>	100%	900 lux
	<b>C</b>	100%	2500 lux

### OUTDOOR CURVE PRE-SETTINGS

	Points	% Brightness	Sensor luxes
<b>O1</b>	<b>A</b>	80%	100 lux
	<b>B</b>	100%	900 lux
	<b>C</b>	0%	2500 lux
<b>O2</b>	<b>A</b>	60%	100 lux
	<b>B</b>	100%	900 lux
	<b>C</b>	0%	2500 lux
<b>O3</b>	<b>A</b>	40%	100 lux
	<b>B</b>	100%	900 lux
	<b>C</b>	0%	2500 lux
<b>O4</b>	<b>A</b>	20%	100 lux
	<b>B</b>	100%	900 lux
	<b>C</b>	0%	2500 lux

## CUSTOMIZATION PROCEDURE WITH REMOTE

As explained before A, B and C points can be set up as you want.  
The following procedure will explain how to proceed.

1 - Push DLight



2 - Push C1



3 - Push A  
to set point A.



4 - LED will flash 4 times.

5 - Set up the LED light  
LEVEL you want with :



6 - Push A button to save value  
of LED light level and the lux level  
measured by the sensor at this time.

7 - LED will flash 2 times when  
value will be saved in the DLight.

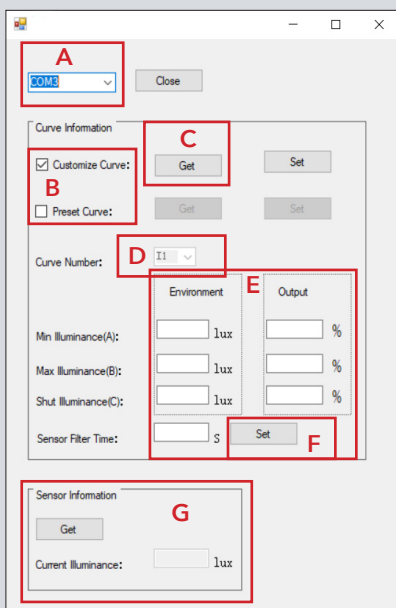
8-Restart complete procedure from the  
beginning to set B and C points.  
Just push B and C buttons  
instead of A in step 3.

*For OUTDOOR curve, it will be best to define this point at  
a period when the daylight is at the maximum to be sure to  
set the best value.*

*For INDOOR curve, it will be best to define these points  
when the daylight is at the minimum to be sure to catch  
the standard light level of the installation place (airport  
terminal).*

## CUSTOMIZATION PROCEDURE WITH USB SOFTWARE

As explained Before A, B and C points can be set up as you want.  
The following procedure will explains how to proceed:



1-Connect the Computer with the USB accessory to the control  
(without the sensor)

2- Start the software

3-Select the communication port (button "A")

4-You can set the Customize or the Preset curve by selecting the  
option (button "B"), then you can read the setting which are in the  
controller by pressing on button "Get" (button "C")

5-Select the curve number you want set (button "D")

6- Define the light level and the sensor light level  
(follow the rules:  $A < B \leq C$  lux) (button "E")

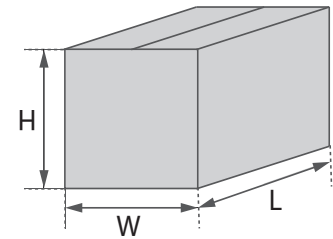
7- Save the value in the controller (button "F")

8- If you want to know the Lux level measured by the sensor,  
please connect the computer with the USB accessory to the sensor  
(without the controller)  
click on "Get" (Button "G") , and the lux value will appear.



## PACKAGING

	Type	SIZE - Lx- WxH (cm)	SIZE - Lx- WxH (ft)	Weight (Kg)	Weight (Lb)	Nb of Pcs / box
CARTON	DIMALED DLIGHT Controller with sensor	54x29x28	1,8x0,95x0,9	8,0	17,6	100
	DIMALED DLIGHT Remote	32x22x25	1,0x0,7x0,8	4,2	9,2	100



## CAUTION

Controller is a "Built-in component", designed to be used in Indoors or Outdoors applications.  
Mounting position of the Master has no impact on the sign because the antenna is multi-directional.  
Max distance between the Master and the Slaves:

-10 mtrs in open areas

Do not install the master or slaves inside earth metal electric box because it would affect the signal quality.  
After installation, please test that all slaves receive well the signal from master. If not receiving well the signal, install a Repeater half distance between master and slave. Do not install 2 repeaters close together because this could only cause interferences.

The signal between Slave and LED is a 12 or 24 PWM signal. Please make sure that:

- Distance of cable is as short as possible (avoid voltage drop)
- Wiring cables are kept separate: 230V, 12 or 24V power supply, and PWM (you can use plastic cable ducts to keep cables separate)
- Do not twist cables together as it would cause interferences
- Shielded cable can be used for PWM signal