



Operation Manual

Controller for LED Illumination




VLC-12V10-1


To use this LED controller with optimum performance and safety, please read this manual thoroughly before starting operation. Keep this manual for the whole product lifetime.

The following warning symbols are used in this manual. Be sure to fully understand the contents.

 WARNING	A warning denotes a hazard that can cause severe injury or death.
 CAUTION	A caution denotes a hazard that can cause injury or damage of equipment.

1. Safety regulations

 WARNING	
	Do not open the chassis to avoid electric shock. High-voltage parts are inside.
	Use only VAL LED lighting unit. If you use with other lighting unit, over current may cause a fire or heat.

 CAUTION	
USE the extension or remote cables 3m maximum to prevent power drop by voltage reduction or malfunction by noise.	
Do not look at the LED directly. If you see the LED long time, your eyes may be damaged.	
Cleaning : Use wet cloth twisted well.	
Dispose the product conforming to the law in the region where the product is used.	

2. General Description

VLC-12V10-1 is a controller for VAL LED lighting unit (10W max. *).

It can be used with input voltage range with DC12V/1A. Remote control is also available.


3. Confirming package contents

Item	Q' ty
Main unit	1
Output connector	1
This instruction manual	1

4. Operation

(1) Connections

Connect cable to terminal block by figure.


 CAUTION	Please be careful about polar character. Use output signal cable size AWG min.24 - max.20. Use flat head screwdriver. (Recommended width size 0.4x2.0mm) Do not use screwdriver with excessive force.
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(2) Manual control

Light intensity is adjustable manually where the control volume on the front panel.

Turn the volume anticlockwise, it becomes darker. Turn the volume clockwise, it becomes brighter.

5. External Signal Connector

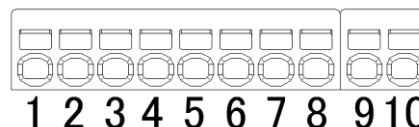
 Caution	Use output signal cable of 3m or shorter. Do not apply too high current and voltage. Do not use external connector except SELV circuit with reinforced insulation or a circuit with double insulation.
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Pin assignment of Terminal block

No.	Identification
1	DC 12V IN
2	DC 0V IN
3	LED ON DC 0V IN / OFF DC12~24V IN
4	LED ON/OFF DC0V IN

No.	Identification
5	MANU/EXT.DC12~24V IN
6	MANU/EXT.DC0V IN
7	EXT.DC 0~5V IN
8	EXT.DC 0V IN

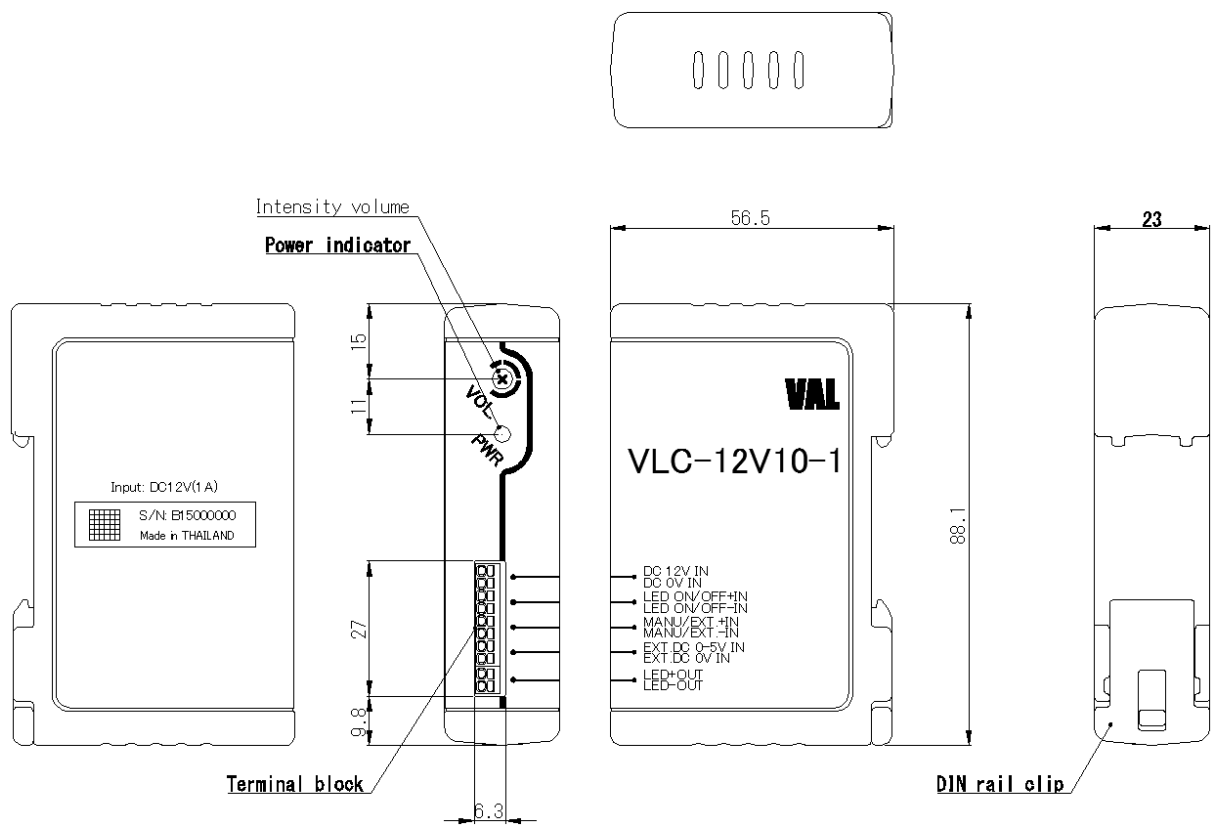
No.	Identification
9	LED+OUT
10	LED-OUT



6. Specification

Model	VLC-12V10-1
Input Voltage	DC12V 1A
Output	1ch/Max. 10W
Intensity Control	Control manually by volume
	Remote control by external analog input (DC 0 to 5V)
ON/OFF Control	Signal (12-24V): OFF / (0V): ON
MANU./EXT. Control	Signal (12-24V): External / (0V): Manual
Intensity Control	PWM (19.6KHz)
Operating Environment	Temperature: 0 to 40°C / Humidity: 20~85% RH without condensation
Storage Temperature/ Humidity	-15 to 40°C / 20 to 85% RH without condensation
Cooling Method	Air-cooling
Dimensions	W56.5mm x D23mm x H88.1mm
Weight	Approx. 40g

7. Dimensions and Functions



8. Warranty

- Duration of warranty**
The duration of the product warranty shall be one year from the day of product delivery.
- Extent of warranty**
If a fault or defect attributable under normal use during the warranty period, VS Technology (Thailand) Co., Ltd. will in good faith ship a replacement or repair the defective part of the product free of charge.
 - Faults or damage that occur due to conditions, environments, handling, or usage other than those described in the Instruction Manual and specifications.
 - Faults or damage that occur due to modification of structure, performance, specifications, etc., by customers after the day of product delivery.
 - Faults or damage that occur due to use of the product other than for its designed purpose.
 - Faults or damage that occur due to natural or human causes such as saltwater air damage, gas damage, earthquakes, floods, fire, lighting or armed conflicts.
- Disclaimer**
VS Technology (Thailand) Co., Ltd. shall not be responsible for any appendant damaged for example business interests cost or abort of business.

«Note»

- If there are any unclear points or if you have any questions, please feel free to inquire VS Technology (Thailand) Co., Ltd.
- For repair or after sales service, please contact any VS Technology (Thailand) Co., Ltd. office or the sales representative where you have purchased the unit.
- Please provide us with the following information when requesting service.
 - Model Name
 - Serial No.:
 - Date of purchase: . . .
 - State of trouble: Please provide detailed information
 - Your name, address, telephone number, email-address