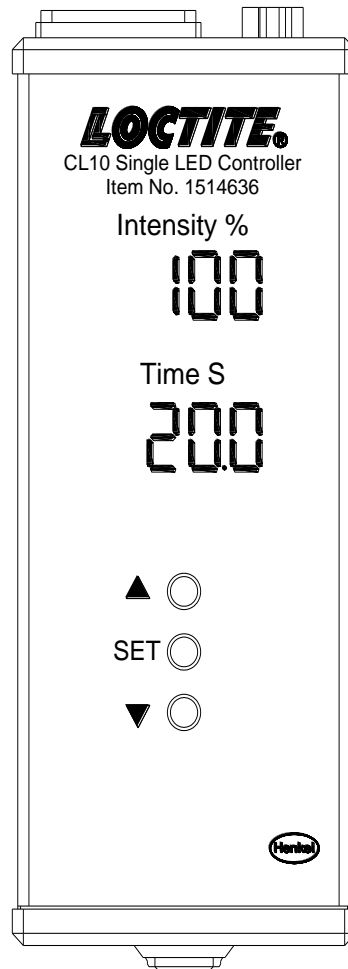




EQUIPMENT Operation Manual



Loctite[®] CL10 Single LED Controller
Item # 1514636

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1 Caution

Info:

Warning instructions in this manual and on labels are classified and described below.



WARNING: This means that possible death or serious injury to the operator may result if these instructions are ignored and the equipment handled incorrectly.



Forbidden: This symbol means that the instruction describes prohibited item or action.



ELECTRICAL EQUIPMENT
This symbol means that possible serious injury by high voltage.



Heating: This symbol means possible serious injury by high temperatures.



Info



Ultraviolet radiation warning: This symbol means that possible serious injury by Ultraviolet radiation.

1.1 Safety Instruction



Make sure to read these “safety Instructions” carefully before starting to use the equipment and observe them during operation. Please familiarize yourself with warning instructions and labels.



Forbidden

- Disassembly and modification is prohibited.
- Discontinue use if power cable is frayed or damaged.
- Should an abnormal condition occur such as smoking, abnormal smell or noise, turn off the power immediately and disconnect the power cable from the AC outlet.

When internal inspection or repair is needed, contact the selling agent or Henkel.



Warning

- Disassembly and modification is prohibited.
- Make sure that the power voltage in use complies with specifications.
- Disconnect the power supply after finishing work.
- Please hold power plug when unplugging the power cable.
- Do not allow liquid to enter the equipment.
- Disconnect the power supply before cleaning the equipment. Do not use an organic solvent to clean the cabinet.
- In case of an abnormal condition, stop using the equipment immediately.

1.2 Out of Box Inspection

Open Loctite® CL10 Single LED Controller package carefully and check if any components were damaged during shipment. Please inform carrier if damage has occurred. Any claims for shipping damage must be made to the carrier and inform supplier immediately.

1.3 Items Supplied

1514636	Loctite® CL10 Single LED Controller	x1
97201	Foot Switch	x1
	Power Cord (Asian)	x1
983680	Power Cord (U.S.)	x1

2 Overview

Loctite® CL10 Single LED Controller is a UV light source that emits a spot of light at a wavelength of 365 or 405nm for use in adhesive Light Cure bonding applications.

Advantage:

1. Over 20,000 working hours.
2. No IR emission resulting in low temperature curing. Will not damage parts due to heat emission.
3. Up to 90% energy savings, compared with mercury arc lamps.
4. Small, LED head for hand held or fixed fixture applications.
5. Foot switch actuated or PLC remote control.
6. Timed mode or manual cycling.
7. Low maintenance cost.

3 Technical Data

Type	LOCTITE ® CL10 Single LED Controller	
MODE	Timer	Intensity:0~100%,Timer:0.1~999.9s
	Manual	Intensity (0~100%),Timer: Manual Control
Power Supply	AC 100~240V 50/60Hz	
Power Consumption	15W	
Cooling Method	Natural Cooling	
Temperature Range	Operating:+5~40℃,Storage: -15~+65℃	
Weight	0.6Kg	
Wavelength	365nm, 405nm	

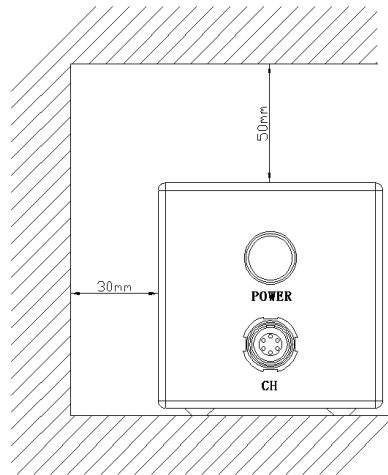
4 Installation



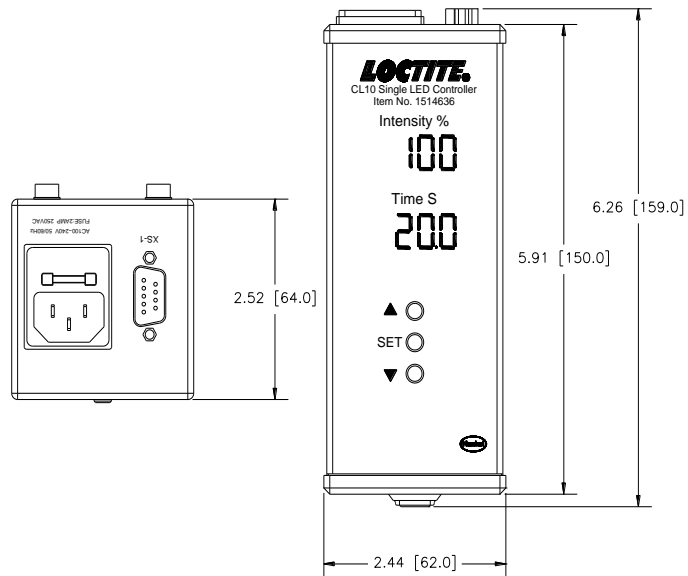
Please check the unit for any mechanical defects. If there is any shipping damage do not install or use the equipment and immediately contact the shipping company and supplier.

4.1 Capacity

Min .space required for the equipment



4.2 Dimension

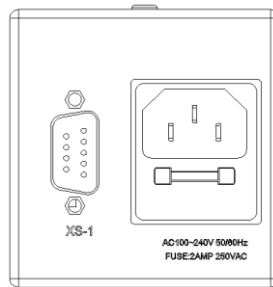


4.3 Caution

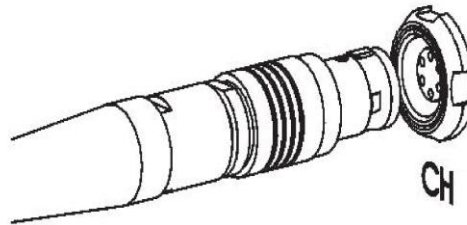
- To prevent heat damage, set the unit horizontally on a level surface. Failure to position the unit properly may cause damage.
- Avoid placing next to high voltage equipment or next to a heat source.
- Make sure nothing is placed on the power cable.

4.4 Installation Flow

1. Place the controller horizontally on a level surface.
2. Connect power cable to controller using supplied power cable.

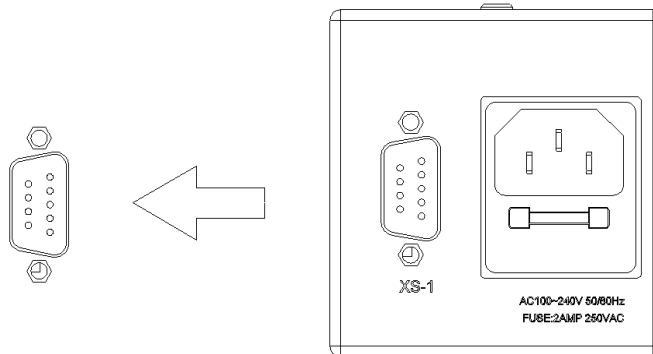


3. There is one LED head connector labeled <CH> under the power button, connect LED head to <CH>.



Caution: Depress power switch to turn on the LED head, press again to turn off. When using a PLC or extension cable, 0V means the LED head is working.

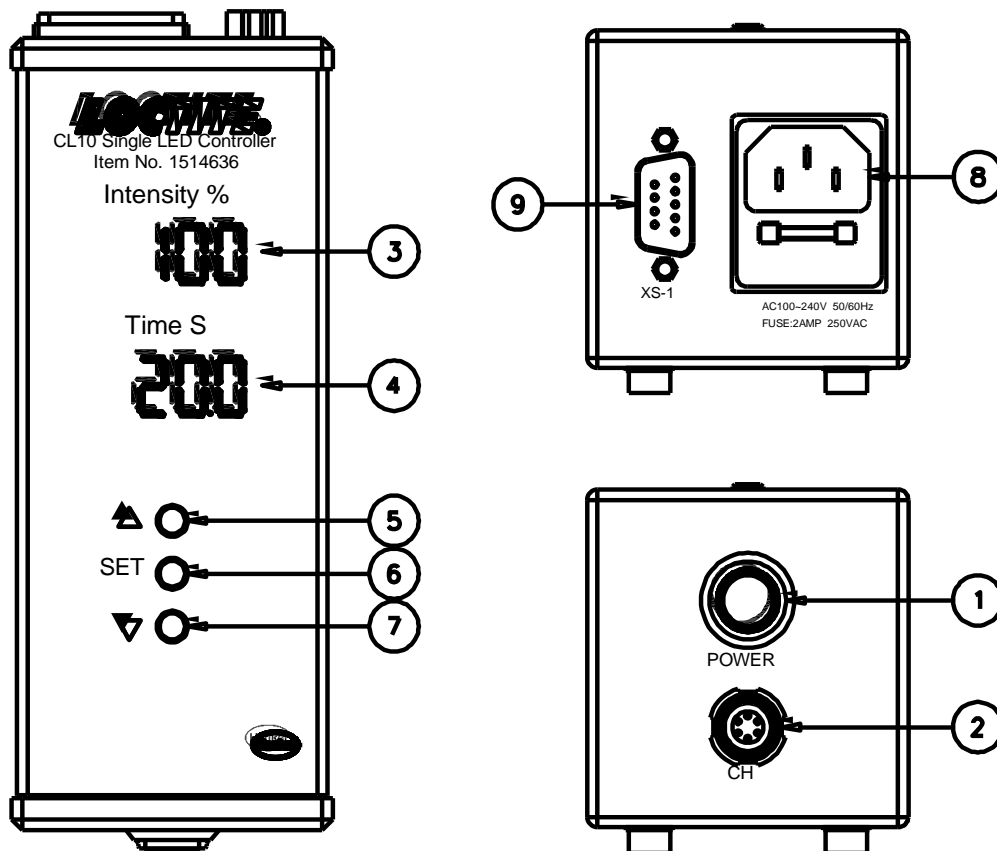
4. Connect foot switch or PLC (optional) to connector labeled <XS-1>



5 Controller button and Operating

5.1 Component name and function

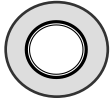
1. Power Switch: Power On/Off
2. LED head connector
3. Intensity display: Intensity setting data and information will be shown here, easy to read and edit.
4. Time display: Time setting data and information will be shown here, easy to read and edit.
5. Up arrow button
6. SET Button: Confirm or enter menu.
7. Down arrow button
8. Power cable connector
9. Control port: LED head control signal input.



5.2 Button and Display Instruction

5.2.1 Button Instruction

Power



Power Switch: Power On/Off.



Arrow buttons: Edit settings



SET Button: Confirm or enter menu.

5.2.2 Display instruction

Intensity %

Intensity data information

Time S

Time data information

5.3 Operating

5.3.1 Startup



Warning



- Please place this equipment in a stable space.
- Avoid placing next to high voltage machinery.
- Please do not block ventilation holes.
- Do not expose to flammable gas.
- Do not use in high temperatures or extreme cold.
- To avoid electric shock, disconnect equipment from electrical supply before servicing.
-



Caution

- To avoid button damage, do not press buttons with high force.
- Prevent metallic foreign matter from entering the LED head connector, may cause short, damage and fire.
- Don't connect any non LED head cable to connector; it may cause errors and damage.

5.3.2 Starting Controller

After finishing installation, plug in power cable, then press . The red LED light inside the  button will turn on when the unit is powered.

5.3.3 Working Mode

If the LED head is plugged in, the controller will automatically enter Working Mode.










Caution









All settings should be adjusted in working mode!

5.4 Parameter Setting

5.4.1 Intensity Setting

1. Enter working mode.
2. Press and hold up button   to set intensity. (Intensity data will flash when up button is released).
3. Press up button   or down button   to adjust intensity.
4. Press  twice to confirm and save.

5.4.2 Time Setting

1. Enter working mode.
2. Press and hold down button   to edit time. (Time data will be flashing).
3. Press up button   or down button   to change intensity value.
4. Press  to confirm and move to next unit.
5. Press  twice to confirm and save when finished with last unit's setting.

5.5 Working mode setting

In Working Mode, you can switch Manual/Timer mode by holding **SET** button. In Timed Mode, the set time will be displayed. In manual mode, "oFF" will be displayed under Time S.

5.6 Working Temperature

Press **SET** once while in working mode to show the temperature of the LED.



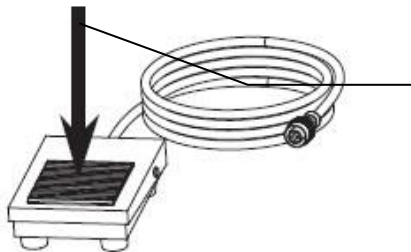
Caution

- When both Intensity and Time data are flashing, pressing either arrow button will allow either the intensity or time to be changed depending on which arrow is pressed.
- Foot switch will only function in working mode.
- Controller will enter working mode automatically if the unit is left idle in setting mode for 60 seconds.

5.7 LED Head Unit and Foot Switch

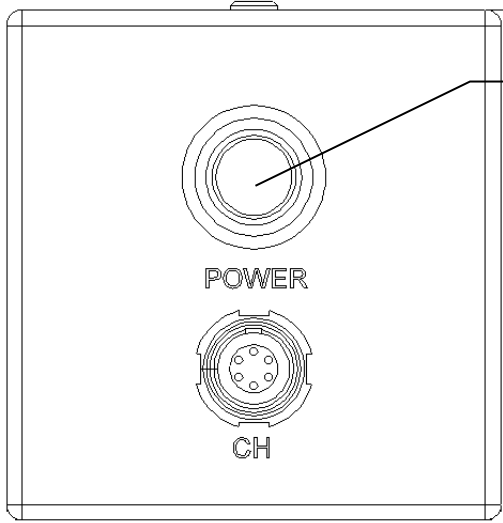


- Please measure and define working distance properly before using LED head.
- Don't touch the LED tip while in use. High temperature may cause injury.

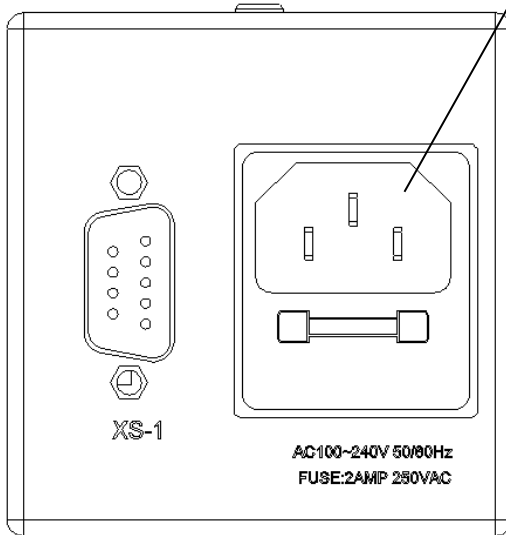


● Press foot switch, LED head will work at set parameters.

6 Shutdown



Step 1: Press Power button to turn off controller, red indicator will turn off at same time.



Step 2: Disconnect power cable.

7 Troubleshooting

Error	Cause/Demonstration	Action
1. Display not on when turning on power button	Please check if power cable is plugged in properly.	Plug in power cable properly.
	Please check the fuse	Fuse type: 2AMP, 250VAC
2. Cannot set parameter	Please check if LED head is in working status.	Exit working status, enter settings.
	LED head is not plugged in properly	Plug in LED properly
3. LED head working abnormally.	Please check if equipment is working in your required mode.	Go to parameters and set mode as you want.
4. No UV output when clicking foot switch.	Controller is not in working mode	Make sure controller is in working mode.
5. LED head cannot connect with channel's connector.	Please check alignment of the groove on the main unit and red point on the LED head.	Please check item 3, chapter 4.4
6. Time that is shown on LCD has timed out, but the LED head is still working.	Please check if controller is in manual mode.	Set to Time mode.
7. LED head cannot reach setting intensity when working.	Please check the working distance.	Set the working distance properly.

8 Replacement Parts

Name		Loctite® Item No.
Controller	CL10 Single LED Controller	1514636
	CL10 LED Head, 365nm, 6mm, w/2.7m cable	1538499
	CL10 LED Head, 405nm, 6mm, w/2.7m cable	1746633
Spare Parts		
Lens	CL10 Lens for 365nm, 6mm LED Head	1538496
Lens	CL10 Lens for 405nm, 6mm LED Head	1750074
Foot Switch	Foot Switch Assembly	97201
Optional Accessories		
	EQ PM20 UV VIS Radiometer (item # 2436352)	1265282
	EQ PM20 UV AB Radiometer (item # 2436353)	1390323
	Tip Locator for CL10 LED Spot Cure Heads	1403402

9 WARRANTY

Henkel expressly warrants that all products referred to in this Instruction Manual for Loctite® CL10 Single LED Controller (hereafter called “Products”) shall be free from defects in materials and workmanship. Liability for Henkel shall be limited, as its option, to replacing those Products which are shown to be defective in either materials or workmanship or to credit the purchaser the amount of the purchase price thereof (plus freight and insurance charges paid therefore by the user). The purchaser’s sole and exclusive remedy for breach of warranty shall be such replacement or credit.

A claim of defect in materials or workmanship in any Products shall be allowed only when it is submitted in writing within one month after discovery of the defect or after the time the defect should reasonably have been discovered and in any event, within (12) months after the delivery of the Products to the purchaser. This warranty does not apply to perishable items, such as (indicate items: fuses, filters, lights, etc.). No such claim shall be allowed in respect of products which have been neglected or improperly stored, transported, handled, installed, connected, operated, used or maintained. In the event of unauthorized modification of the Products including, where products, parts or attachments for use in connection with the Products are available from Henkel, the use of products, parts or attachments which are not manufactured by Henkel, no claim shall be allowed.

No Products shall be returned to Henkel for any reason without prior written approval from Henkel. Products shall be returned freight prepaid, in accordance with instructions from Henkel.

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