

LC-2000
Director™
Lighting Controller

USER MANUAL



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BEFORE YOU BEGIN

What is included

- 1 x Director Controller (LC-2000)
- 1 x Director Relay Pack (LCR-2005)
- 1 x 9-pin cable (SF-EXCB)
- Warranty Card & Manual

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC Power

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement. Check the

fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Figure 1 - AC Voltage Switch



Warning!

Verify that the power select switch on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.

Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance?



- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature is Ta: 40°. Do not operate fixture at temperatures higher than this.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to lamp while it is on.

Caution!

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET.

INTRODUCTION

The Director™ does the job of two (8-channel) effects lighting controllers in one slim package. This controller-relay system has two separate (4-channel) chase zones which the user can modify. Each zone can be switched from audio-activation to any of the two preset timed chases with speed adjustment rotary knobs. In addition, each 16 individual channel can be overridden and set to permanently on or always off without affecting the overall chase. You can daisy chain up to 2 runs of three relay packs and the controller does not require an external power source (see page 6 illustration).

Features

- two (8-channel) effects lighting control panels in one
- control of two relay packs at the same time
- package includes one relay pack (additional relay packs sold separately)
- daisy chain up to 6 relay packs (3 packs per output)
- 16 independently selectable channels (2 relay packs required)
- 16 latch buttons with on/off chase override switch
- LED indicators for each channel
- two user modifiable (4-channel) zones
- audio-activation
- internal microphone
- line level audio input (RCA)
- audio sensitivity rotary knob for both zones
- timed chase (1sec to 10min) for both zones
- blackout button
- integrated fog controller
- integrated strobe controller with speed knob
- 19" rack mountable devices

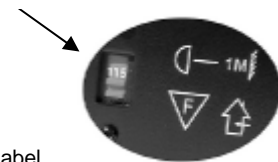
Power

The relay packs are equipped with switch-selectable AC power setting.

Warning!

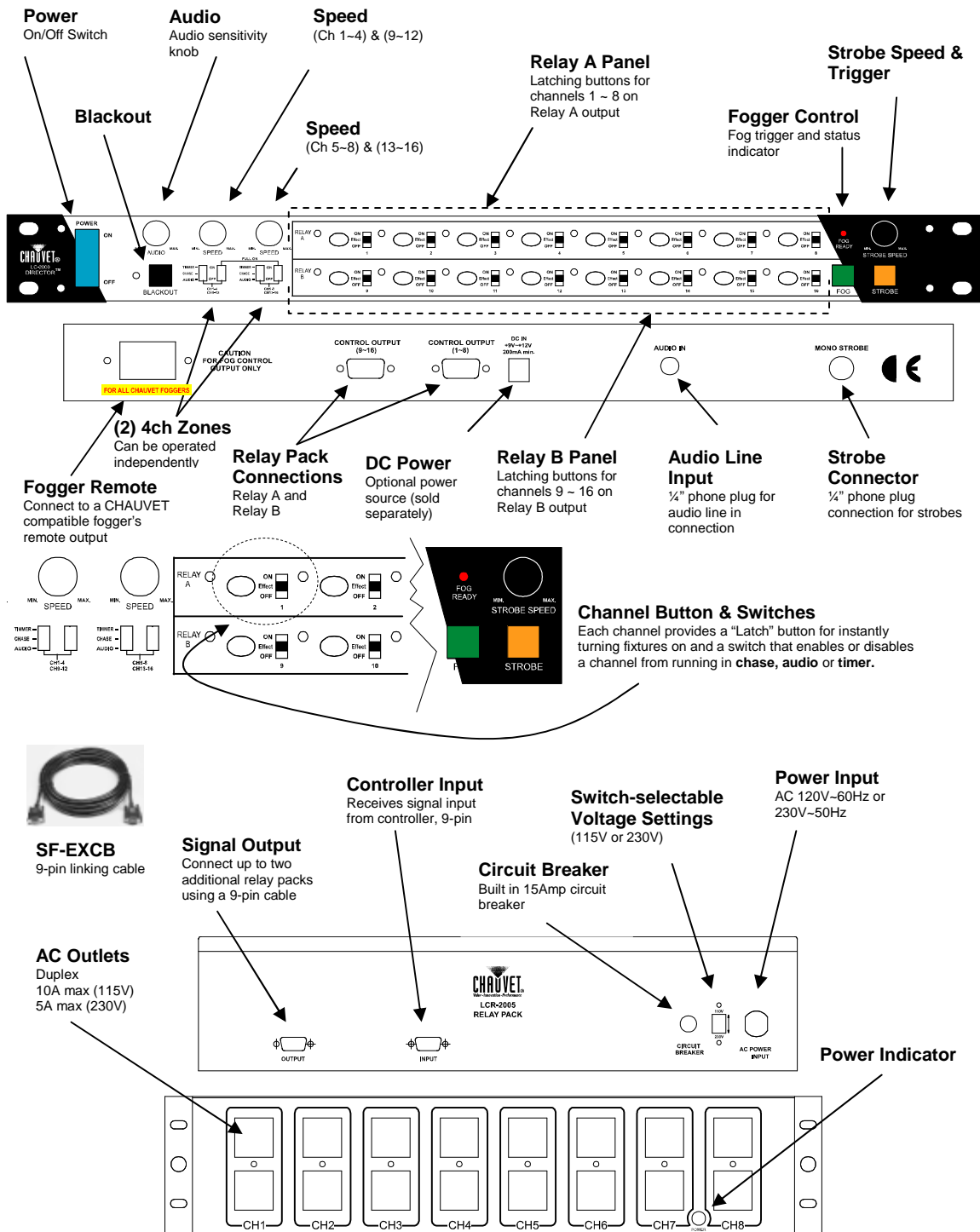
Verify that the power select switch on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.

Slide switch up or down depending on your line voltage.



- To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart.
- A fixture's listed current rating is its average current draw under normal conditions.
- All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.
- Before applying power to a fixture, check that the source voltage matches the fixture's requirement.
- All fixtures must be connected to circuits with a suitable Earth Ground.

Product Overview



OPERATING INSTRUCTIONS

Setup

Action

- 1) Using the 9-pin cable (SF-EXCB) provided, connect from the **Control Output** of the controller to the **INPUT** on the relay pack.
- 2) Plug the relay pack to an AC outlet.
- 3) Optional: Continue daisy chain up 3 relay packs total for each controller 9-pin outputs.
- 4) Connect desired lighting to the AC outlets on the relay packs. There are two outlets for every channel. Both outlets are powered at the same time.

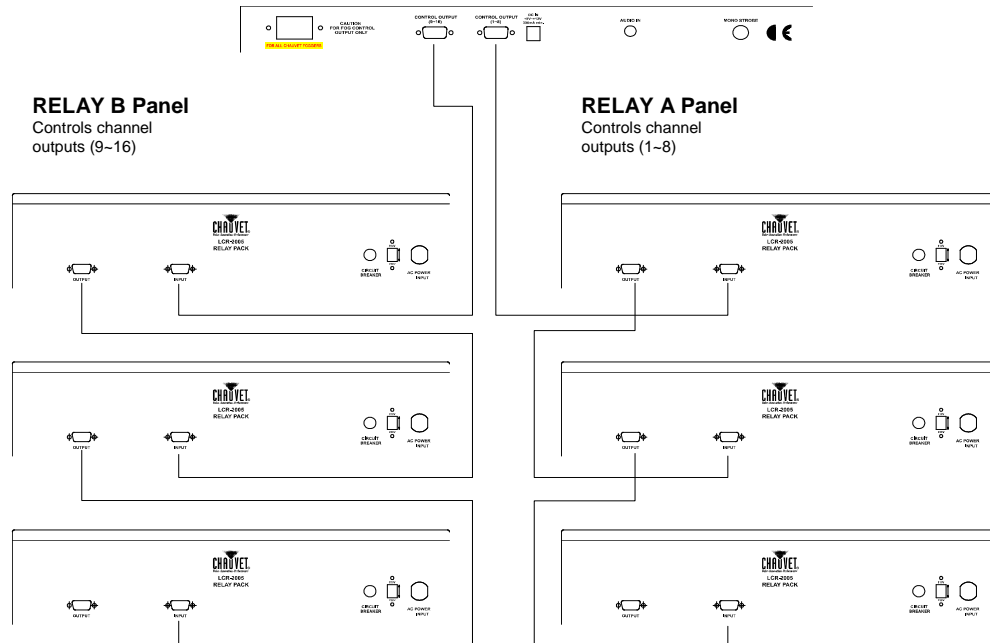
Notes

There are two outputs on the controller, (1~8) is for Relay A and (9~16) for Relay B.

Two additional relay packs can be daisy chained on each controller output for a total of 6 relay packs.

Important! It is recommended that each relay pack gets powered by independent circuits to avoid tripping breakers.

Do not exceed a maximum load of 15 Amps for 115V and an individual channel load of 10 Amps.



Controller Overview

MANUAL OPERATIONS

There are **16 buttons** on the Director™. Each button represents an AC duplex outlet on the relay pack. You can activate an individual channel by pressing the button once. The LED will turn on and the lighting fixture connected to that output will light. You can turn fixtures on using this method regardless of whether a chase is currently running. Turning a fixture on using this method will override the affected channel in the chase.

In addition to the button there is an **On/Off Switch**. This switch allows you to disable an individual channel from turning on during the operation of a chase. However, the latch button will still override and turn on the channel.

The **blackout** button temporarily disables all outputs on the relay pack causing all lighting fixtures to turn off. The blackout button can be activated at any time. Blackout button is reset when the power is turned off.

RUNNING IN CHASE

The Director™ is equipped with one standard chase that runs on two (4-channel) zones. Each zone can be set with three modifiable parameters that affect the running state.

CHASE PARAMETERS

TIMER: Built in timer can be adjusted from a 10 minutes per step to 1 second per step at max setting.

CHASE: A faster timer that can be adjusted from 1 second per step to 1/10th of a second per step at max. **(Recommended for non-inductive loads such as pinspots and parcans which have no motors internally.)**

AUDIO: When the switch is set to Audio, the sound will trigger the step in the chase.

EXTRAS

The Director™ comes with a simple **FOG** button and a **FOG READY** status indicator. Simply connect from the remote fogger output on the controller into a compatible CHAUVET fogger. The fogger status indicator will light once the fogger has warmed up and is ready to produce fog.

The **STROBE** button and **STROBE SPEED** rotary knob provide control of CHAUVET compatible **mono** strobes. Connect a ¼" jack mono cable from the controller to the first strobe and daisy chain up to 6 strobes. The **STROBE SPEED** rotary knob affects the speed of the strobe in flashes per second.

APPENDIX

Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components.

Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

General Troubleshooting

Symptom	Solution(s)	Applies to			
		Lights	Foggers & Snow	Controllers	Dimmers & Chaser
Auto shut off	Check fan thermal switch reset	✓			
Beam is very dim or not bright	Clean optical system or replace lamp Check 220/110v switch for proper setting	✓			
Breaker/Fuse keeps blowing	Check total load placed on device				✓
Chase is too slow	Check users manual for speed adjustment	✓		✓	✓
Device has no power	Check for power on Mains. Check device's fuse. (internal and/or external)	✓		✓	✓
Fixture is not responding	Check DMX Dip switch settings for correct addressing Check DMX cables Check polarity switch settings	✓			
Fixture is on but there is no movement to the audio	Make sure you have the correct audio mode on the control switches. If audio provided via ¼" jack, make sure a live audio signal exists Adjust sound sensitivity knob	✓		✓	✓
Lamps cuts off sporadically	Possible bad lamp or fixture is overheating. Lamp may be at end of its life.	✓			
Light will not come on after power failure	Some discharge lamps require a cooling off period before the electronics in the fixture can kick start it again, wait 5 to 10 minutes before powering up	✓			
Loss of signal	Use only DMX cables Install terminator Note: Keep DMX cables separated from power cables or black lights.	✓	✓	✓	✓
Moves slow	Check 220/110v switch for proper setting	✓			
No flash	Re-install bulb, may have shifted in shipping	✓			
No laser output	Bounce mirror motor may have shifted during shipping, readjust	✓			
No light output	Check slip ring & brushes for contact Install bulb Call service technician	✓			
Relay will not work	Check reset switch Check cable connections				✓
Remote does not work	Make sure connector is firmly connected to device	✓	✓		
Stand alone mode	All CHAUVET lighting fixtures featuring stand-alone functions do not require additional settings, simply power the fixture and it will automatically enter into this mode	✓			

Technical Specifications

LC-2000

Length.....	101.6 mm (4 in)
Width.....	482.6 mm (19 in)
Height.....	44.45 mm (1.75 in)
Weight.....	3.81 Kg (8.4 lbs)
Power.....	provided by LC-2005 (Relay Pack)
Power (optional).....	DC 9V-12V 200mA min

LC-2005

Length.....	107.95 mm (4.25 in)
Width.....	482.6 mm (19 in)
Height.....	107.95 mm (4.25 in)
Weight.....	2.49 Kg (5.5 lbs)
Switch-selectable power settings.....	115V 60 Hz or 230V 50 Hz
European version.....	240V 50 Hz
AC input.....	3-prong IEC 60320 power cord attached
Fuse Protection.....	Circuit Breaker (15 Amps)

CONTROL

Audio input.....	RCA connector
Strobe remote output.....	¼" mono phone plug (TRS) Tip Ring Sleeve
Fogger remote output.....	CHAUVET compatible using IEC 60320 C-14 connector

ORDERING INFORMATION

Director™.....	LC-2000
Director™ Relay Pack.....	LCR-2005
9-pin cable.....	SF-EXCB
Fuse 15A.....	P170FUSE015