

# SkyScan™ 4000

## Snapshot

<b>OK on Dimmer</b>	⊘
<b>For Use in Dry Outdoor Location</b>	✓
<b>For Use in Wet Outdoor Location</b>	⊘
<b>Sound Activated</b>	⊘
<b>DMX512</b>	⊘
<b>Master/Slave</b>	⊘
<b>115V/230V Switch</b>	⊘
<b>Replaceable Fuse</b>	✓
<b>Duty Cycle</b>	⊘

## USER MANUAL



*Value - Innovation - Performance*  
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# 1. BEFORE YOU BEGIN

## What is included

- Ø 1 x SkyScan™ 4000
- Ø 1 x Power connector (no cable)
- Ø 1 x Warranty Card
- Ø 1 x User 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

## 230V ONLY!

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. 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.

### Wiring diagram

The fixture includes an IP-44 wire terminator. This is designed to use the wire configuration shown below.

**Note:** this unit does not ship with a wire terminator installed or in the package. You will need to supply your own power cable and terminator when installing/setting up this fixture. **This should only be done by a qualified technician! You must use the proper cable when connecting this fixture. Use the minimum recommended cable of 10AWG-3 conductor insulated wiring. This will allow for proper grounding connection.**

Connector Wire  
Diagram



## Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance of this product.

- 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 the decal or rear panel of the fixture.
- This product is intended for dry locations 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 20in (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 (Ta) is 104°F (40°C). Do not operate fixture at temperatures higher than this.
- In the event of a 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.
- Never connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source 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 at: 954-929-1115.***

# 2. INTRODUCTION

## Features

- Professional 4000W search light
- Motorized pan: 120° / manual tilt: 40°
- Quad power switches control lamp's intensity (1k, 2k, 3k, or 4k)
- Silent, hot-restrike ignition
- Variable mechanical zoom
- Ingress Protection: IP33

## Product Overview



# 3. SETUP

## Lamp

The lamp for this fixture arrives installed at the factory. Do not touch the envelope (glass area) of the bulb with bare hands. If this happens, clean the lamp with alcohol and wipe it with a lint free cloth before installation.

**Warning!** *When replacing the lamp, please wait 15 minutes after powering down to allow the unit to cool! Always disconnect from main power prior to lamp replacement.*

## Lamp Installation

*Note: the lamp is installed from the back (rear) of the fixture.*

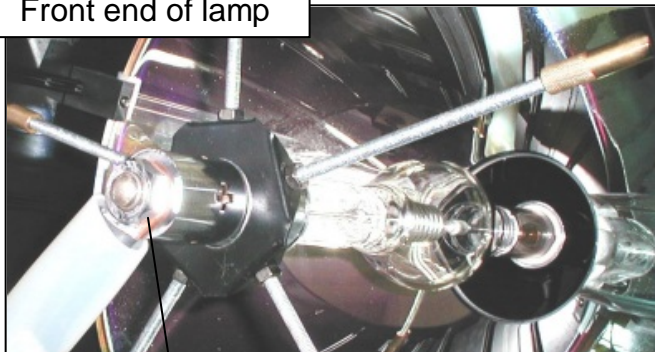
- 1) Be sure to remove power to the fixture before replacing the lamp.
- 2) Using a Phillips #2 screwdriver, remove the back cover of the fixture. Be careful of the wires for the fan, as this is attached to the back cover and is easy to damage when removing the panel.
- 3) Then, remove the front cover with a Phillips #2 screwdriver. Although the lamp is installed through the back of the fixture, you will need to gain access to the front of the fixture to detach the front end of the lamp. This is done with a crescent wrench.
- 4) Remove the lamp by loosening and detaching both ends of the lamp. Then, pull the old lamp out through the back of the fixture.
- 5) Then, install the new lamp the same way the old lamp was removed, but in reverse.
- 6) Close the front & rear cover before connecting power to the fixture.

**Note: be careful not to touch the envelope of the lamp! Always use an alcohol wipe to clean the lamp after installation to remove any residue and oil from the envelope!**

Back end of lamp



Front end of lamp



This is the nut to remove the lamp

This is the nut to remove the lamp

# WARNING!

*Note: please be sure to adhere to the following instructions and cautions before installing/servicing this lamp.*

## Mechanical installation

Because of their high luminance, UV radiation and internal pressure in both the hot and cold state, Xenon lamps may only be operated in enclosed lamp casings specially constructed for the purpose. Always use the safety covers supplied when handling Xenon lamps. When handling the lamps without their safety boxes, always wear safety goggles, a face mask and gauntlets with wrist protectors. Lamps with standard or Suprasil quartz emit intense UV radiation and produce ozone in the surrounding air.

### **Certain precautions must therefore be observed when handling these lamps:**

- All Xenon lamps are supplied in a safety cover. This protects users from possible spontaneous or induced bursting of the lamp. You should handle lamps only with safety cover. Store this safety cover for use during the removal of the lamp at the end of its service life.

**You should wear leather gloves covering the arteries and veins of your wrists and protective goggles or complete face protection covering the arteries and veins of your neck, such as a transparent plastic mask.**

## Lamp Storage

Lamps may only be stored if suspended freely from their bases inside their safety covers. Leaving them to roll around unprotected on a desk or shelf can result in micro cracks in the surface of the quartz glass, and burst lamps later on.

- If the lamp is inadvertently operated inside its safety cover, the sleeve will melt within a few seconds and the lamp will be unusable.
- When removing lamps, the reverse procedure must be followed: first put the safety cover or some protection around the lamp, then remove the lamp.

## Electrical connection

Care must be taken to ensure that the lamp is connected with correct polarity; the positive pole of the rectifier must be connected to the base marked "+", the negative pole to the base marked "-". Incorrect polarity results in total lamp failure within a few seconds.

## Cleaning the lamps

Xenon lamps may only be held by the base. If the quartz bulb or the shafts should ever be inadvertently touched with bare fingers (which should never happen, because unprotected lamps should only be handled with leather gloves), the fingerprints must be removed immediately. A lint-free cloth moistened with spirit is best for this, after which the lamp should be rubbed dry, taking care not to scratch the quartz glass surface. Damage to the quartz may cause the lamp to break during later operation. If fingerprints are not removed they burn into the quartz glass surface where they act as a seed for ever-expanding recrystallization of the quartz. This causes the quartz to lose its strength and increases the risk of bursting.



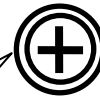
Disconnect the power cord before replacing a fuse and always replace with the same type fuse.



## Fuse Replacement

With a Phillips #2 screwdriver, unscrew the fuse holder from its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Screw the fuse holder back in its place and reconnect power.

**Note: there are 4 fuses in this fixture, each located by the corresponding lamp power switches**



FUSE

The fuse is located inside this compartment. Remove using a Phillips #2 screwdriver.

## Mounting

### ORIENTATION

This fixture may only be mounted in a standing, vertical position, provided there is adequate room for ventilation and movement.

**Note: this fixture *MUST* be positioned in an upright position to allow proper cooling, ventilation, and IP rating!**

### RIGGING

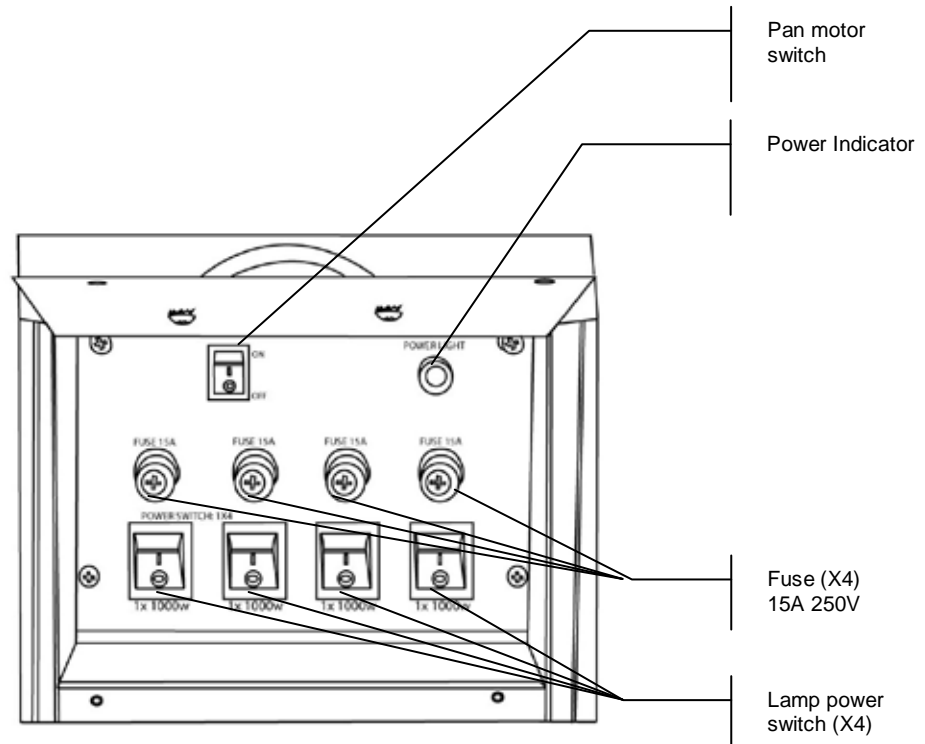
It is important never to obstruct the fan or vents pathway. Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

- When selecting installation location, take into consideration lamp replacement access and routine maintenance.
- ***For use in dry locations only!***



# 4. OPERATING INSTRUCTIONS

## Operation



### TO TURN THE POWER TO THE LAMP ON

- 1) Using the 4 lamp power switches, select one at a time, in combination, until you reach the desired light output.
- 2) Please wait 30 seconds between activating each additional lamp switch.

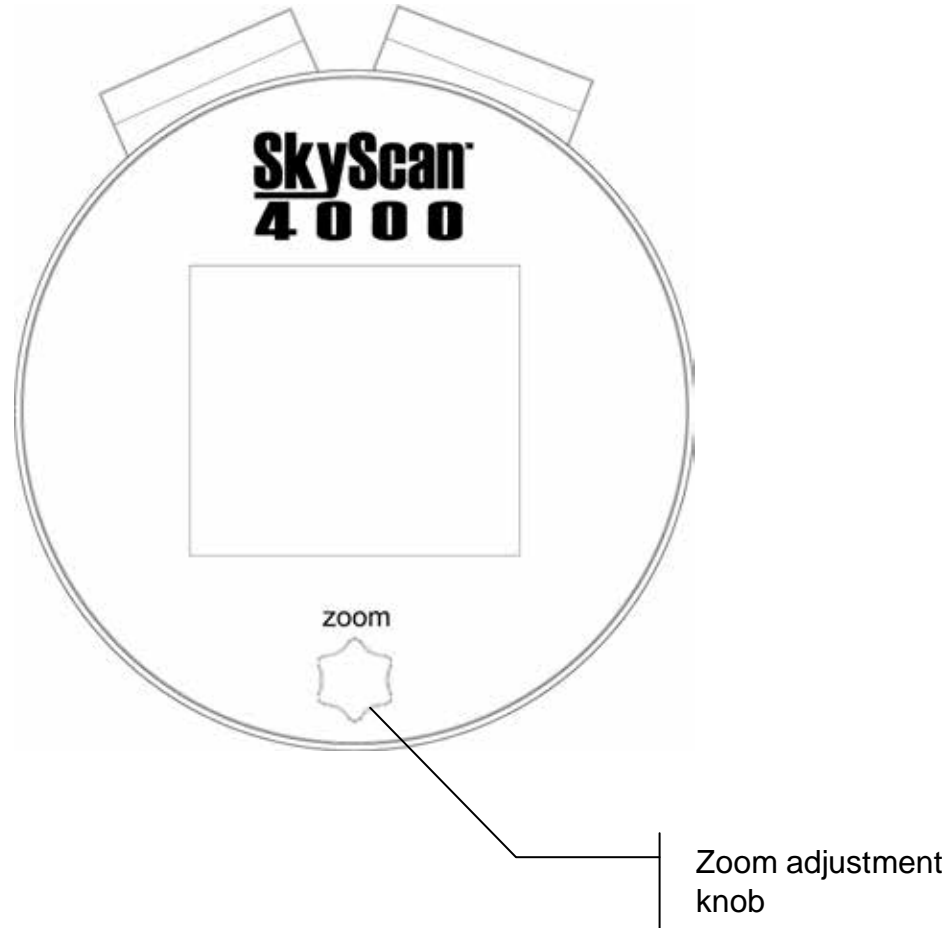
### TO ACTIVATE THE PAN ROTATION

- 1) Locate the pan motor switch.
- 2) Switch it to the "ON" position to enable bi-directional rotation.
- 3) To disable bi-directional rotation, switch this to the "OFF" position.

***Note: the pan cannot be manually adjusted.***

## TO ADJUST THE ZOOM OF THE FIXTURE

- 1) Locate the “ZOOM” adjustment of the fixture, highlighted in the diagram below.
- 2) Turn the adjustment knob clockwise to increase the beam angle.
- 3) Turn the adjustment knob counter-clockwise to decrease the beam angle.



# General Troubleshooting

Symptom	Solution(s)	Applies to			
		Lights	Foggers & Snow	Controllers	Dimmers & Chaser
Auto shut off	Check fan thermal switch reset	ü			
Beam is very dim or not bright	Clean optical system or replace lamp	ü			
Breaker/Fuse keeps blowing	Check total load placed on device				ü
Chase is too slow	Check users manual for speed adjustment	ü		ü	ü
Device has no power	Check for power on Mains. Check device's fuse. (internal and/or external)	ü		ü	ü
Fixture is not responding	Check DMX Dip switch settings for correct addressing Check DMX cables Check polarity switch settings	ü			
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	ü		ü	ü
Lamps cuts off sporadically	Possible bad lamp or fixture is overheating. Lamp may be at end of its life.	ü			
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	ü			
Loss of signal	Use only DMX cables Install terminator Note: Keep DMX cables separated from power cables or black lights.	ü	ü	ü	ü
Moves slow	Check 220/110v switch for proper setting	ü			
No flash	Re-install bulb, may have shifted in shipping	ü			
No laser output	Bounce mirror motor may have shifted during shipping, readjust	ü			
No light output	Check slip ring & brushes for contact Install bulb Call service technician	ü			
Relay will not work	Check reset switch Check cable connections				ü
Remote does not work	Make sure connector is firmly connected to device	ü	ü		
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	ü			

**If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support at the location on the next page.**

## Contact Us

### World Wide

**General Information** CHAUVET  
5200 NW 108th Avenue  
Sunrise, FL 33351  
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fax: 954.929.5560  
toll free: 800.762.1084

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Sunrise, FL 33351  
voice: 954.929.1115 **(Press 4)**  
fax: 954.929.5560 **(Attention: Service)**

**World Wide Web** [www.chauvetlighting.com](http://www.chauvetlighting.com)

# 5. APPENDIX

## General 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. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

## 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 (RMA #). Products returned without a RMA # will be refused. Call CHAUVET and request RMA # 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.

**Note: If you are given an RMA #, please include the following information on a piece of paper inside the box:**

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) The RMA #
- 5) A brief description of the symptoms

## 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.

# Technical Specifications

## WEIGHT & DIMENSIONS

Length ..... 27 in (686 mm)  
Width ..... 27 in (686 mm)  
Height ..... 43.5 in (1,105 mm)  
Weight ..... 174 lbs (79 kg)

## POWER

AC Power ..... 230V 50Hz  
Fuse ..... 15A 250V (4X)  
Power Consumption & current (1K) ..... 853W (5.3A) max 0.83 PF at 230V  
Power Consumption & current (2K) ..... 1481W (13.7A) max 0.63 PF at 230V  
Power Consumption & current (3K) ..... 2.300W (21.6A) max 0.68 PF at 230V  
Power Consumption & current (4K) ..... 3,200W (26.4A) max 0.73 PF at 230V  
Inrush Power ..... (1.2A ~ 26.4A) at 230V

## LIGHT SOURCE

Lamp ..... XQ4000 4000W 6000°K 500hrs

## PHOTO OPTIC

Luminance @ 27m ..... (490,000 lux)  
Beam Angle ..... 1°~15°

## RANGE

Pan (motorized) ..... 120°  
Tilt (manual) ..... 40°

## THERMAL

Maximum ambient temperature ..... 104°F (40°C)

## ORDERING INFORMATION

SkyScan™ 4000 ..... SKYSCAN4000

## WARRANTY INFORMATION

Warranty ..... 1-year limited warranty