

FS-150SCI



User Instructions

Elation Professionals

4295 Charter Street Los Angeles Ca. 90058 www.elationlighting.com

FS-150SCI™ Unpacking

Every FS-150SCI™ has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all equipment necessary to operate the unit has arrived intact. In case damage has been found or parts are missing, please contact our toll free customer support number for further instructions.

FS-150SCI™ Introduction

Introduction: Thank you for purchasing the Elation® FS-150SCI.™ To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. The FS-150SCI™ is a high powered follow spot with automated controls for the iris and color changer. The unit is fully DMX compatible and can be controlled via an universal DMX controlled or by the built in controller on the rear of the unit.

Customer Support: Elation® provides a toll free customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (800) 322-6337 Fax: (323) 582-3108

E-mail: support@elationlighting.com

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact your nearest Elation® dealer.

DISCHARGE LAMP WARNING!

This fixture is fitted with a discharge lamp which is highly susceptible to damage if improperly handled. Never touch lamp with your bare fingers as the oil from your hands will shorten lamp life. Also, never move the fixture until the lamp has had ample time to cool. Remember, lamps are not covered under warranty conditions.

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FS-150SCI™ Introduction

SAFETY PRECAUTIONS:

- Do not spill water or other liquids in to or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Please route your power cord out of the way of foot traffic.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the top cover under any conditions. There are no user serviceable parts inside.
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged in any way.
- Never operate this unit when it's cover is removed.
- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.

FEATURES:

- · Seven vibrant colors plus white.
- Long life (9000 hours) SC-150 discharge lamp.
- Variable speed shutter.
- Micro-stepping motors for smooth color transitions.
- Built in controller Run up to 16 heads with the built-in controller.
- Master/Slave configuration
- DMX-512 protocol capable
- · Full Focusing.
- Fully automated IRIS.
- · Fan cooled.
- Uses 3 DMX Channels.

FS-150SCI™ Set Up

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your Elation_® FS-150SCI.™ The Elation_® FS-150SCI™ is available in a 115v and 230v version. Because line voltage may vary from venue to venue, be sure to plug your unit into a matching wall outlet before attempting to operate.

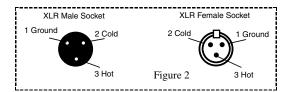
Data Cable (DMX Cable) Requirements (For DMX Operation Only and Master-Slave): The FS-150SCI can be controlled via DMX-512 protocol. The Elation_® FS-150SCI[™] is a three channel DMX unit. The DMX address is set on the front panel of the FS-150SCI.

Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). If you are making your own cables, be sure to use standard two conductor shielded cable (This cable may be purchased at almost all pro sound and lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and can not be split.



Figure 1

Notice: Be sure to follow figure three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.



XLR Pin Configuration
Pin 1 = Shield
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)



Figure 3

FS-150SCI™ Set Up

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 90-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator will decrease the possibilities of erratic behavior.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture.

Figure 4

Linking: Your fixture comes with a built-in controller This controller may be used to control up to 16 units when daisy-chained together in a master-slave configuration. Any unit can function as either a "Master Unit" or a "Slave Unit." Link the units together using standard DMX cable.

FS-150SCI™ DMX Addressing

DMX stands for Digital Multiplex. This is a universal binary language used as a form of communication between intelligent fixtures. Each dip switch represents a binary value.

Dip Switch 1 address equals 1

Dip Switch 2 address equals 2

Dip Switch 3 address equals 4

Dip Switch 4 address equals 8

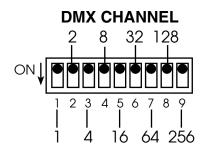
Dip Switch 5 address equals 16

Dip Switch 6 address equals 32

Dip Switch 7 address equals 64

Dip Switch 8 address equals 128

Dip Switch 9 address equals 256



FS-150SCI™ Controls and Functions



- 1. IRIS OPEN Holding this button will open the IRIS.
- 2. IRIS CLOSE Holding this button down will close the IRIS
- 3. ON Pressing this button will open the shutter.
- STROBE These buttons will strobe the Shutter in four different speeds.
- 5. **BLACKOUT** This button will close the lamp shutter.
- 6. POWER SWITCH This button turn on the main power.
- 7. **UV** This button will select UV filter option.
- 8. GREEN This button will select the green color filter
- 9. MAGENTA This button will select the magenta color filter.
- 10. BLUE This button will select the blue color filter.
- 11. ORANGE This button will select the orange color filter.
- 12. RED This button will select the red color filter.
- 13. WHITE This button will deselect all color filters.
- 14. YELLOW This button is used to select the yellow color filter.
- **15. FUSE/POWER SUPPLY** Use the supplied IEC power cable to connect the unit to a power circuit. A 5 amp fuse is housed here.

FS-150SCI™ Operation



Stand Alone: Use this function when you will be using the FS-150SCI as a stand alone spot light. In this function you use the built in controller to control all functions of the FS-150SCI.

- A. With the supplied two foot DMX jumper, connect the built in controller to the unit. Connect one end of the cable to the female XLR out jack on the controller and the other end to the male XLR in jack located on the lower front end of the unit.
- B. Locate the dip switches on the front of the unit. Set dip switch one to the on position and be sure dip switches 2-9 are all set to the off position.
- C. Plug the unit in and turn the power on.
- D. Use the built-in controller to select different colors and to control the various features. The remote functions will be explained on page 7.

FS-150SCI™ Operation

Master / Slave Operation: This function will allow you to link up to 16 units together. In this mode, the units will all react to the commands sent by the "Master Unit's" built-in controller.

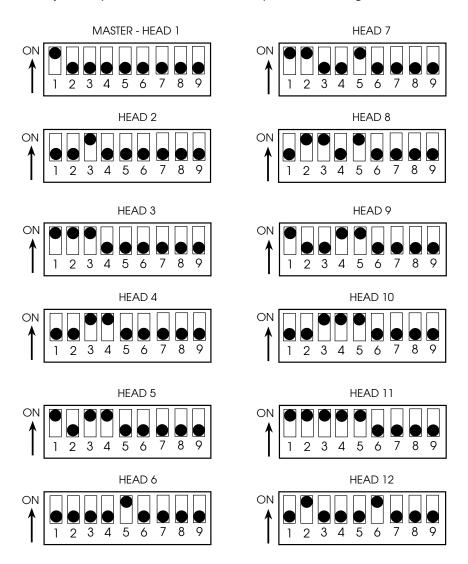
- A. Use XLR cables to daisy chain the fixtures together. Remembering the female XLR is the output, and the male XLR is the input. For longer cable runs we suggest using a terminator.
- B. With the supplied two foot DMX jumper, connect the built in controller to the first unit in the chain. Connect one end of the cable to the female XLR out jack on the controller and the other end to the male XLR in jack located on the lower front end of the unit.
- B. Locate the dip switches on the front of the unit. Set dip switch one to the on position and be sure dip switches 2-9 are all set to the off position.
- C. Plug the units in and flip all the power switches to the on position.
- D. Use the "Master-Unit's" built-in controller to select the different colors and to control the various features. The remote functions will be explained on page 7.

Universal DMX Control: This function allows you to use a universal DMX controller such as the Elation_® Show Designer.™ The use of a DMX controller will allow you to customize the use of fixtures allowing you independent control of the color wheel, shutter (allowing you to strobe and blackout), and iris. This will allow you to create your own programs.

- A. The FS-150SCI™ is a three channel DMX fixture.
- B. When using a DMX controller and setting up for DMX operation, please see page 9 for DMX address settings.
- C. For help running in DMX mode consult the manual that comes with your DMX controller.

FS-150SCI™ Dip Switch Settings

This chart list the DMX dip switch setting for the first 12 units. This chart is set as a guide only. For dip switch setting beyond the twelfth unit or for units not starting at DMX channel one, please follow standard binary DMX protocol for the correct dip switch settings.



FS-150SCI™ DMX Traits

This chart below details the DMX traits of the FS-150SCI. The unit uses three DMX channels; channel one is controls color, channel two is controls the shutter, and channel three controls the IRIS.

CHANNEL 1 COLOR		CHANNEL 2 SHUTTER		•	CHANNEL 3 IRIS	
224-255	Purple	215-255	Open		255	Out
192-223	Pink		= 10 fps			= 100%
160-191	Orange					
128-159	Yellow	43-214	Strobe		147	= 50%
96-127	Green					
64-95	Blue					
35-P3	Red		= 1 fps			= 5%
00-31	White	00-42	Closed		00	In

FS-150SCI™ Lamp Replacement

Caution! Never open the unit while in use. Always disconnect the main power before attempting to replace the lamp. Remember to always replace with the exact same type lamp and fuse, unless otherwise instructed by an authorized Elation® service technician.

- 1. Be sure to follow the proper procedures when handling discharge lamps.
- 2. Remove the thumb screw on the rear of the unit that secures the control unit to the chassis.
- 3. Pull down the control unit to expose the lamp socket assembly.
- 4. Unscrew the three screws that hold the lamp socket assembly in place and remove the socket assembly.
- 5. Remove and replace the lamp.
- 6. Reassemble.

FS-150SCI™ Cleaning

Due to fog residue, smoke, and dust, cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

- 1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
- 2. Use a brush to wipe down the fan grill and remove as much built up as possible.
- 3. Clean the external optics with glass cleaner and a soft cloth every 20 days.
- 4. Clean the internal optics with glass cleaner and a soft cloth every 30-60 days.
- 5. Always be sure to dry all parts completely before plugging the unit in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

FS-150SCI™ Warranty Card

The FS-150SCI™ carries a two year limited warranty. We recommend you fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a R.A. Number. If the unit is under warranty, you must provide a proof of purchase invoice. A R.A. Number may be obtained by contacting Elation_® customer support.

FS-150SCI™ Trouble Shooting

Listed below are a few common problems the user may encounter, followed by possible solutions.

No light from the unit;

- 1. Check if the 'Power On' (red) LED is lit and the fan is running. If not, there is no main supply.
- 2. Check the fuse.
- 3. Check if lamp is lit. The user should be able to see some light escape through the fan. If power is present but the lamp is not lit, lamp may need to be replaced.
- 4. Be sure the main power is pushed in all the way on the rear of the unit as well as the power outlet
- 5. Be sure the power switch is in the on position.

The fan is on but there is not light output;

- 1. Be sure to give lamp ample time to warm up.
- 2. Open the socket assemble and be sure the lamp is properly installed.

Unit not responding to DMX;

- 1. Be sure your dip switch settings are correct.
- 2. Check that the DMX cables are connected properly and are wired correctly (pin 3 is 'hot'; on some other DMX devices pin 2 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.
- If DMX connectors are fairly short, ordinary microphone cables may be used. For longer runs, this may cause data transmission problems (which will show up as random or incorrect movements) for best result, use proper balanced data transmission cable.

If problems are not resolved; Contact your Elation Professionals® dealer for service.

FS-150SCI™ Warranty

2-YEAR LIMITED WARRANTY

- A. Elation Professionals® hereby warrants, to the original purchaser, Elation Professionals® products to be free of manufacturing defects in material and workmanship for a period of two years (730 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, send the product only to the Elation Professionals® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professionals® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professionals® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Elation Professionals® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professionals® factory unless prior written authorization was issued to purchaser by Elation Professionals®; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, Elation Professionals® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professionals® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professionals®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.
- E. Elation Professionals® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professionals® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professionals® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.
- G. This warranty is the only written warranty applicable to Elation Professionals® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

FS-150SCI™ Notes

Technical Specifications:

Model: FS-150SCI™

Lamp: SC150 120v/150w Discharge **Voltage:** 110v~120v / 50Hz ~ 60Hz

Dimensions: 10"H x 11"W x 17"L

Colors 7 plus White

Weight: 27 Lbs. Fuse: 5 Amp

Improvements and changes in specifications and design to this manual and the unit may be made at any time without any prior notice written or otherwise.

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