

ROSCO

DMX IRIS



**Operations
Manual**

DMX IRIS OPERATIONS MANUAL

Introduction to your DMX Iris

Features

- 10mm – 75mm aperture range
- 24 leaf mechanism for smooth-edged, truly round aperture projections
- No external PSU required
- 100-240 v compatible for use around the world
- Unique friction lock holds unit securely in iris slot of luminaire
- Manual control knob allows use without power or DMX



In the Box

- (1) Rosco DMX Iris unit
- (1) NEMA/IEC power cord with u-ground type connector
- (1) Operations manual

Set-Up and Installation

Power Requirements

The Rosco DMX Iris is equipped with an internal, auto-sensing power supply. It will automatically adjust and accept power input from 100 volts to 240 volts at a frequency range of 50 – 60 hz.

Connect the included IEC power cord by firmly pushing it into the recessed socket on the DMX Iris. (Figure 1) When using the DMX Iris in regions using

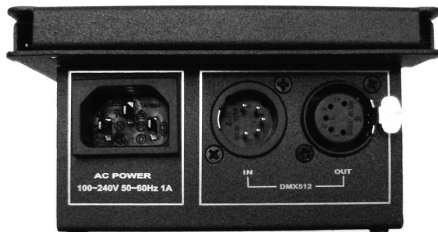


Figure 1
Power & DMX Connections

connectors other than a u-ground type, simply replace the connector or substitute the included IEC cable for one with the appropriate connector type. Make sure to use an IEC cable with at least 18 gauge conductors.

Plug the connected power cord into a suitable non-dim or mains power supply. Do not connect the DMX Iris to a dimmer circuit unless the dimmer has been preset into a non-dim mode. The green LED indicator light will illuminate when power is present. (Figure 2)

Immediately after receiving power, the DMX Iris Unit will go through a homing cycle. For approximately 10 seconds. It will revert to its open or closed position, determined by the Normal Switch.

Pressing the Test Button will cycle the DMX Iris closed and back to open -- or open and back to closed if the Normal Switch is in the CLOSE position.

DMX Control

If you are using the DMX Iris with DMX control, you will need to connect a 5-pin DMX cable to the unit. It is equipped with (2) DMX ports, input and out (pass-through). (Figure 1) The DMX Iris may require an external DMX terminator if used at the end of your DMX chain.

The green LED indicator light will illuminate when a DMX Signal is present. (Figure 2)

Setting the DMX Address

The DMX Iris uses one channel of DMX. Use the three rotary pots to set the desired DMX address, for example 2-0-1 = DMX Address 201. The small arrow on each rotary switch indicates the setting. (Figure 2)



Figure 2
DMX Addressing

Installing the DMX Iris in your luminaire

The DMX Iris has been designed to fit into most modern ellipsoidal luminaires. With its thin body design and customized toolings, the list

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of compatible fixtures includes ETC Source Four, ETC Source Four Zoom, Selecon Pacific, Altman Shakespeare, Strand SL, Leviton Leo and many others.

The Rosco DMX Iris is equipped with a unique safety feature, the Friction Lock. Located on the left side of the DMX Iris is the Lock Slider. (Figure 3) Depressing this plunger will extend a knurled cylinder which presses against the insides of the accessory iris slot, securely holding the DMX Iris in place. To install the DMX Iris into your luminaire it is necessary that the Lock Slider be in the UP position, with the lock disengaged.

Insert the DMX Iris into the iris slot of your luminaire with the motor box extending towards the front, the lens end, of the light. It may be necessary to angle the yoke of the luminaire back to allow access into the accessory iris slot. **Note that on certain luminaires, the sliding cover of the iris slot may have to be removed to allow the DMX Iris to fit properly.** Make sure that the DMX Iris is seated all the way down into the luminaire. This is important to insure that the light path is not blocked. If you project an oblong or cut off beam pattern, wiggle and reseat the Iris all the way down.

To engage the Friction Lock, press down on the Lock Slider until it stops. (Figure 3) The unit will be held securely into the accessory iris slot. The Friction Lock is only intended to prevent accidental movement of the DMX Iris within the accessory slot. It is highly recommended that you install a safety cable to prevent the DMX Iris from falling out of the fixture and possibly causing harm.

Caution: Make sure to route the power cord and DMX cables to avoid the extremely hot back end of the luminaire. Failing to do so could result in melting cords, signal failure or fire!



Figure 3
Friction Lock

Operation and Control

DMX Operation

Changing the level of the assigned DMX channel will cause the iris mechanism to open or close. With your Rosco DMX Iris you can define how the unit responds to DMX control signals. A slider switch is positioned to the right of the rotary DMX address pots. This “Normal Switch” allows you to toggle the default behavior of the DMX Iris. (Figure 2) With the switch in the OPEN position, the DMX Iris will default to a full open aperture. As the level of the DMX channel increases, the aperture will iris down and when the level reaches 100% the aperture will be at its smallest 10mm opening. With the switch in the CLOSE position, the DMX Iris will default to its smallest opening. Then as the level of the DMX channel increases, the aperture will iris up and when the level reaches 100% the aperture will be at its largest 75mm opening

Manual Operation

The Rosco DMX Iris can also be used as a manually adjustable iris in situations where live control of the aperture size is not required. With no power applied to the DMX Iris, turn the manual knob on the back of the DMX Iris until the desired aperture size is achieved. (Figure 4) If power is present, the manual knob cannot be used.

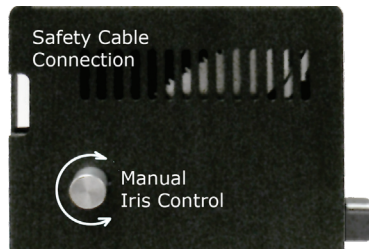


Figure 4
Manual Control & Safety Cable Connection

Precautions

- Use only properly rated IEC power cord (18AWG 3C SJT) and connect only to compatible voltage supplies (100-240v 50-60hz)
- Always use a safety cable to insure the DMX Iris cannot fall out of the fixture.
- Do not allow power cords or DMX cables to come in contact with the body of the luminaire or the rear lamp cap.
- Do not connect DMX Iris to a dimming circuit.
- Keep fingers clear of moving iris mechanism.
- The metal case of the DMX Iris may get very hot after continuous use in a luminaire. Use caution to avoid burns when handling units that have been in running luminaires.

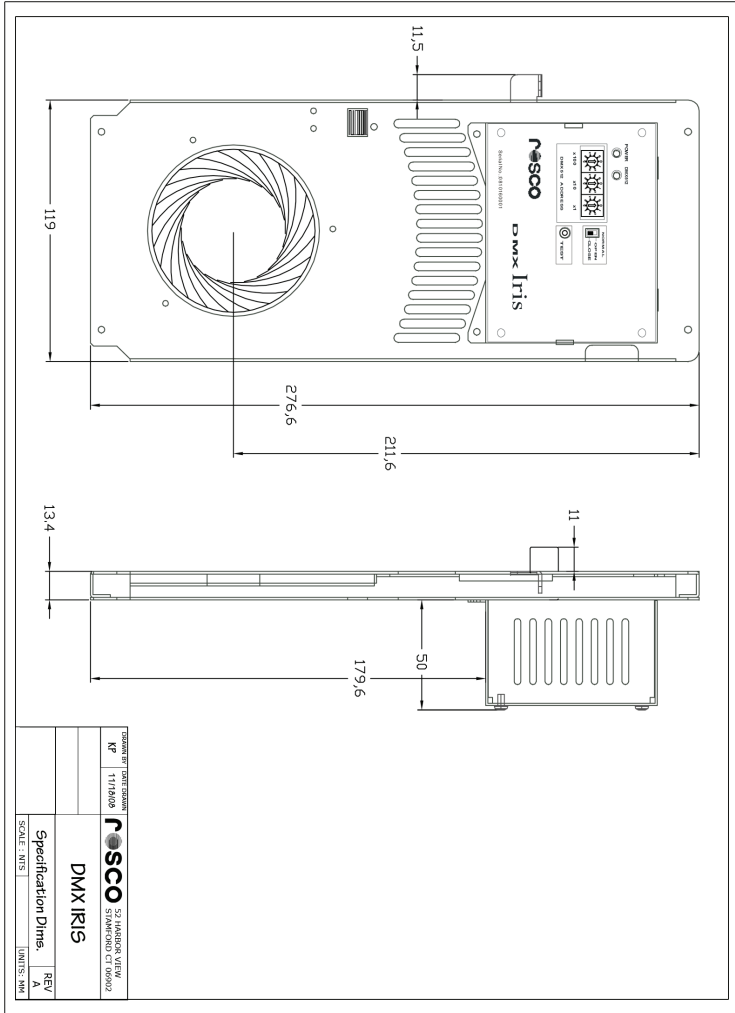
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Troubleshooting

1. The DMX Iris will not fit into the Iris Slot.
 - Make sure the Friction Lock is in the up (disengaged) position and that the lock itself is not extending outside the metal case.
 - The iris slot cover of the luminaire may need to be removed to allow complete access to the slot. Fully remove the two screws holding the cover and lift off. Set aside so that the cover can be reinstalled at a later date.
 - Installing the DMX Iris into the Selecon Pacific Coolight requires that the guide channel in the side cut of the DMX Iris align with the rear guide track in the Pacific's iris slot.
2. The projected aperture appears out of round or cut off.
 - The DMX Iris is not properly seated in the luminaire. Remove Iris unit and reinsert making sure that the unit is seated all the way down in the light.
3. The manual control knob won't turn.
 - Make sure the DMX Iris is unplugged and no power is getting to the unit. The manual knob will not operate when power is present.
4. Irregular or failed DMX Control
 - Check that the DMX Address is set properly.
 - Check that proper DMX signal is present (is the DMX indicator light illuminated?)
 - If the DMX Iris is at the end of the DMX chain, connect a proper DMX terminator to the OUT port of the DMX Iris.

Specifications

Power	Input 100 -240 v 50-60 hz, < 500 mA power draw
Cord	18AWG 3C SJT, IEC/NEMA Connector
Motor	24v 1.8° Stepper Type
Aperture	10mm - 75mm
Mechanism	24 leaf iris, bonded stainless steel
Temp	450° C at iris leaves



Made in Taiwan

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WWW.ROSCO.COM

Rosco Laboratories, Inc.

52 Harbor View Ave., Stamford, CT 06902
(203) 708-8900 FAX(203) 708-8919

1265 Los Angeles St., Glendale, CA 91204
(818) 543-6700 FAX (818) 662-9470

Rosco Laboratories, Ltd.

1241 Denison St. #44, Markham, Ontario, Canada L3R 4B4
(905) 475-1400 FAX (905) 475-3351

Roscolab, Ltd.

Blanchard Works, Kangley Bridge Rd.,
Sydenham, London SE26 5AQ England
(20) 8659-2300 FAX (20) 8659-3153

Rosco Iberica SA

C/Oro,76 Polígono Industrial Sur
28770 Colmenar Viejo, Madrid. Espana
(34) 918 473 900 FAX (34) 918 463 634

Rosco do Brasil Ltda.

Rua Antonio De Barros, 827, São Paulo
SP Brasil CEP 03401-000
(11) 218-2865 FAX (11) 218-0193

Rosco Australia Pty Ltd.

PO Box 873, Artarmon,
NSW, 1570
42 Sawyer Lane, Artarmon,
NSW, 2064, Australia
(02) 9906-6262 FAX (02) 9906-3430