



# User Guide

PLEASE READ & SAVE THESE ORIGINAL INSTRUCTIONS

# Image Spot<sup>®</sup> HO



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*Information and specifications in this document are subject to change without notice.  
Rosco assumes no responsibility or liability for any errors or inaccuracies that may appear in this manual.*

## INTRODUCTION

Congratulations on your purchase of a Rosco Image Spot HO projector, designed to provide crystal-clear imaging. Image Spot HO is quick and easy to set up. Please refer to your Image Spot box label for the specifications of your Image Spot variant, such as the dimming method, IP rating, and more.

To ensure efficient and safe operation, please take a few moments to read this manual completely.

## IMPORTANT SAFEGUARDS

The symbols below are used throughout this manual to identify important safety information. Heed all warnings and safety information.



**Warning, Danger or Caution**  
Risk of Personal Injury



**Risk of Electric Shock**  
Risk of severe electric shock



## PREVENTING ELECTRIC SHOCK

This machine uses mains electrical power at 100-305VAC nominal. When directly contacted, such voltages are hazardous to human life. Follow all local electrical codes and take precautions when using this product.

This product is designed to operate from three-wire power systems, where one of the wires is a safety ground. DO NOT disconnect the safety ground, or use extension cords or adapter plugs to connect this machine to a two-wire system. Operation without a safety ground may result in hazardous electrical shock.

Use only extension cords that are of appropriate length and are rated for Image Spot's specified voltage and current. If an extension cord shows signs of wear or gets warm to the touch, discontinue its use and obtain a cord with a higher current rating. Improper extension cords are hazardous and may result in poor performance due to excessive voltage drop.

Disconnect unit from power source before servicing and when not in use.



## MAINTAINING SAFE OPERATION

Do not look directly into the Image Spot projector. Prolonged exposure to the light beam can cause damage to eyesight.

Use only Rosco spare parts and accessories so as to not void the product warranty.

The surface temperature of the Image Spot HO can approach 184°F (84°C) during operation. Keep minimum 4 inches (10cm) distance away from flammable materials / objects. Contact with the fixture during, or immediately following, operation may result in burns.

Allow the unit to cool before attempting to service.

Rosco Image Spot HO must only be serviced by a qualified technician.

Rosco Image Spot HO is not certified for use in hazardous locations.

Rosco Image Spot HO is designed for operation within the range of -13° to 104°F (-25° to +40°C).

Ensure Rosco Image Spot HO is stored within the range of -4° to 140°F (-20° to +60°C).

## UNPACKING

Carefully remove the unit from the box.

Do not attempt to operate Rosco Image Spot HO projector if there are any signs of physical damage. In case of damage, contact your local Rosco dealer.

Your Rosco Image Spot HO projector requires that an Image Spot focusing lens tube (purchased separately) be inserted into the opening on the front of the unit prior to operation.

Four lens options are available, providing Very Narrow, Narrow, Medium and Wide beam angles. The size of the image or the beam angle can be adjusted by replacing the lens tube with an alternate size:

Item No. 296000010009	Very Narrow 10°
Item No. 296000010019	Narrow 19°
Item No. 296000010025	Medium 25°
Item No. 296000010030	Wide 30°

# INSTALLING LENS TUBE

Slip the two provided O-rings onto the grooves on the back end of the lens tube. Gently insert the end of the lens tube with O-rings into the opening on the front of the projector.



Please note, if there is any resistance or pressure when installing the lens, you may need to remove the gobo cassette to allow air to flow out of the fixture.

## GOBO PROJECTION

Prior to operating the Image Spot HO projector insert an Image Spot gobo and/or Permacolor dichroic glass filter into the gobo cassette located on the underside of the fixture. Check to ensure the gobos are free of dust, fingerprints and other residue prior to inserting the cassette into the accessory slot. Up to two Rosco gobos or Permacolor dichroic glass filters can be stacked in the gobo cassette. For sharpest gobo imaging, place any filters in the gobo cassette first, then any gobos on top. Gobos with logos or other oriented graphics must be inserted upside down and backwards for proper projection. Be sure to tighten the thumb screws on the gobo cassette after re-inserting to maintain protection from dust and moisture. A flat tipped screw driver should be used for additional torque\* to tighten the thumb screws. For optimum image quality, use Rosco Image Spot gobos, which feature custom bezels that fit securely inside the Image Spot gobo cassette.



*Gobo cassette*

***To best prevent ingress of dirt and moisture, orient the Image Spot projector with the gobo cassette on the underside of the unit and only replace the lens assembly and gobo cassette when the unit is cooled and fully dry.***

\*Recommended to be tightened to 4N•m min. or hand tighten plus an additional quarter turn with screwdriver.



## DICHROIC COLOR FILTERS

Rosco Permacolor dichroic filters are available to provide fully customizable, long-term color options for your Image Spot HO. For optimal performance and installation, specify Image Spot Permacolor Filters that feature custom bezels to fit securely inside the Image Spot gobo cassette.

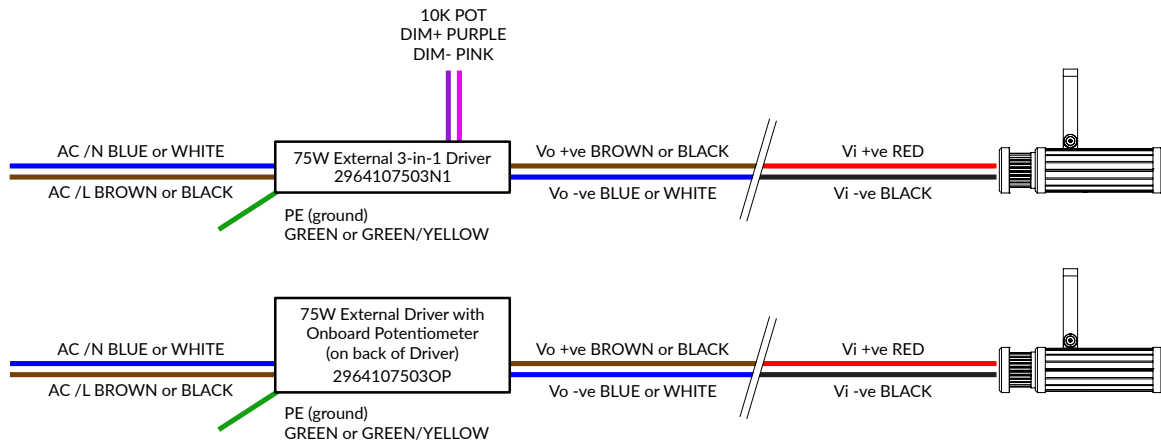
Install the Image Spot Permacolor Filter into the gobo cassette. The gobo cassette is deep enough to accept both an Image Spot Gobo and an Image Spot Permacolor Filter. It is recommended that the Permacolor Filter be installed on the “lamp-side” of the two. When properly installed, the order should be lamp -> Image Spot Permacolor Filter -> Image Spot Gobo -> Lens Tube.



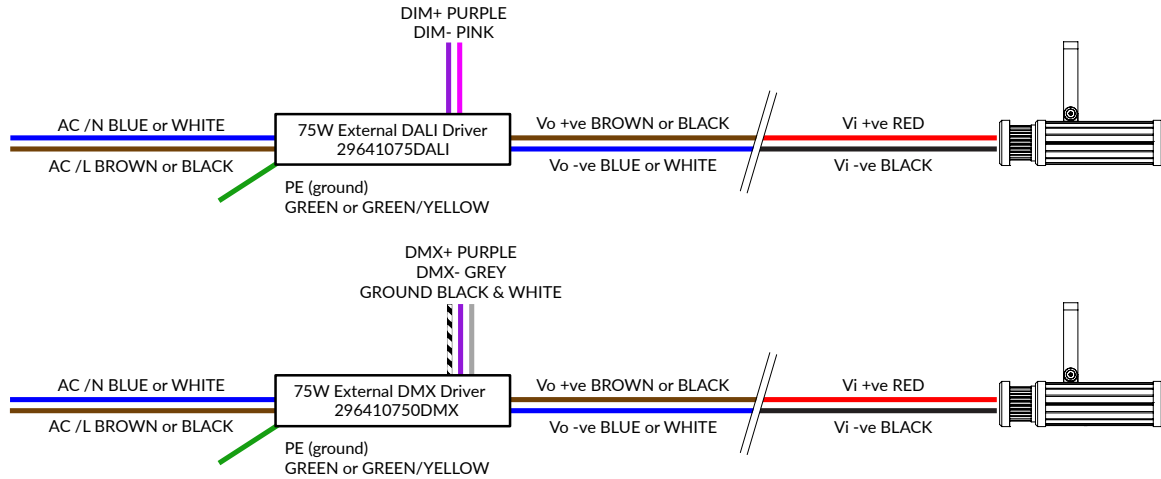
# WIRING

Your IP rated Rosco Image Spot HO projector will arrive with an unterminated hybrid power cord attached to the unit. Wiring to a Rosco-supplied driver and the driver to line voltage should be performed by a qualified electrician and is the responsibility of the installer or end user.

Connect the AC Mains power supply, Control signal leads (0-10VDC, DALI, or DMX) and lead wires from the Image Spot HO projector to the selected driver as follows:



# WIRING



Note: the suggested current is 1400mA, any variation may result in under performance or a shortened LED life cycle, and may void warranty.

Ensure the correct power connections have been made to the Image Spot HO projector. The fixture will immediately illuminate upon receiving power and a valid control signal.

## MOUNTING

The Image Spot HO projector can be installed in the desired location via the 5/8" center hole in the yoke. Adjust pan as required. Adjust and fix the tilt of the projector via the threaded (1) hex screw using the included hex key or (2) optional knurled thumb knob (included with the Image Spot HO Welcome Pack) on the side of the yoke.



## FOCUSING

Adjust the coarse focus of the unit by moving the lens tube inward/outward from the projector. The fine focus can be adjusted by rotating the lens tube clockwise or counter-clockwise.

Due to the ultra-clear optics of the Image Spot HO projector, it is advised to keep the optic path clean of dust and debris. Use a non-abrasive micro-fiber cloth with Rosco Lens Cleaner to clean the Image Spot lenses and any glass gobos or Permacolor dichroic glass filters you may have installed.

## DIFFUSION FILTERS

An optional Image Spot OPTI-FLECS™ Filter Pack is available and features three pre-cut, 43mm round diffusion filters that soften Image Spot's beam for spot lighting purposes. The OPTI-FLECS Filter Pack includes:

- Retaining Ring
- Soft Diffusion – 43mm dia.
- Smoothing Frost – 43mm dia.
- Double Powder Frost – 43mm dia.



To install OPTI-FLECS filters into the Image Spot: insert the 43mm disc into the front end of the lens tube and then secure the filter into place using the Retaining Ring.

## MAINTAINING WATERPROOFING

The Image Spot HO is an IP65 rated fixture, but it must be installed and serviced properly to maintain its waterproofing. Here is a summary of procedures to follow for long lasting outdoor operation:

- Do not install the unit without a lens tube. It is required for protecting and sealing the front opening from ingress.
- Allow unit to cool completely before removing gobo cassette or lens tube. This will prevent cool humid air from rushing into the hot internal cavity when exposed to the pressure and temperature difference.
- Install lens tube a minimum of 2 complete rotations or 5/8inch (16mm) past the O-rings to ensure the lens and front opening are water tight.
- Install fixture with the gobo cassette slot screws tightened and facing downward to protect from direct exposure to elements and dust.

# DIMMING CONTROLS

## 3-in-1 External Driver

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
  - 0 ~ 10VDC, or 10V PWM signal, or 10K resistance
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100  $\mu$ A (typ.)
- Do not connect DIM- to Vo-

## DALI External Driver

- Apply DALI signal between DA+ and DA-.
- See wiring guide on page 10 for installation.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

## DMX External Driver - RDM Compatible

- Apply DMX signal between DMX+ and DMX-
- DMX control requires that a DMX address be established for each projector. Address via RDM or through Smartphone App\*
- A single channel is required for output intensity control via DMX.

\*Please refer to the [DMX programming guide](#) for addressing your DMX Image Spot HO

## Onboard Potentiometer External Driver

- Manual intensity adjustment can be made with screwdriver

Note: The lowest dimming output is ~8% and increases linearly (1V=10%, 2V=20%, 3V=30%, etc.)

## DIMMING CONTROLS - Continued

### External Driver Warnings

1. Electrical Shock Hazard: Always consult a qualified technician for any issues.
2. Weather Protection: Install the external driver indoors or ensure they are sheltered from rain when placed outdoors to prevent irreparable damage.
3. Installation Location: Avoid installing LED power supplies in areas with high ambient temperatures (above 80°C) or near fire sources.
4. Output Limits: Ensure the output current does not exceed 1400mA and wattage does not exceed 75.6W as described in the product documentation.
5. Grounding: If the unit is equipped with an FG (frame ground) terminal, ensure it is properly connected to the PE (protective earth).



## ACCESSORIES

<b>Item Number</b>	<b>Description</b>
296000010009	Image Spot Very Narrow Angle Lens Optic / 10°
296000010019	Image Spot Narrow Angle Lens Optic / 19°
296000010025	Image Spot Medium Angle Lens Optic / 25°
296000010030	Image Spot Wide Angle Lens Optic / 30°
296000010013	Image Spot OPTI-FLECS Filter Pack with Retaining Ring
296000010012	Image Spot Safety Cable, 3-ft (1m)
296000005101	Rosco Pole Mount Accessory - Black
296000005102	Rosco Pole Mount Accessory - White
296000005104	Rosco Wall Mount Accessory - Black

# ORDERING GOBOS & PERMACOLOR FILTERS

Gobos and Permacolor Dichroic Filters for the Image Spot HO projector can be easily ordered through any Rosco dealer. Visit [www.rosco.com](http://www.rosco.com) to locate the dealer nearest you and provide them with the information below.

## Standard Gobos

XXXXX-SPOT                      Image Spot Standard Gobo, XXXXX = the five digit standard gobo number

## Custom Gobos

2507210ISPOT                      Image Spot Custom Steel Gobo  
260CUSBWOSPO                      Image Spot Custom B&W Glass Gobo  
260CUS1COSPO                      Image Spot Custom One-Color Glass Gobo  
260CUS2COSPO                      Image Spot Custom Two-Color Glass Gobo  
260CUSMCOSPO                      Image Spot Custom Multi-Color Glass Gobo

## Permacolor Dichroic Filters

1203-XXXX-SPOT                      Image Spot Permacolor Dichroic Glass Filter for Gobo Slot, XXXX – four digit color number

For assistance ordering or specifying gobos or Permacolor filters for the Image Spot, please contact our Gobo Customer Service Centers:

Americas	Toll Free in the US: 866-228-2256	<a href="mailto:customgobo@rosco.com">customgobo@rosco.com</a>
	Outside of the US: 512-388-5299	<a href="mailto:customgobo@rosco.com">customgobo@rosco.com</a>
EMEA	UK: +44 (0)20 8659 2300	<a href="mailto:salesadmin@rosco.com">salesadmin@rosco.com</a>
	Spain: (34) 918 473 9000	<a href="mailto:salesadmin@rosco.com">salesadmin@rosco.com</a>

# TECHNICAL SPECIFICATIONS

## Power

Input Voltage:  
Minimum: 39VDC (from external driver)  
Maximum Power  
Consumption: 75W

**Data Control:** DMX, 0-10V or DALI via external driver  
In and Thru, hybrid IP65 power &  
data cable

## Physical Characteristics

Dimensions: 8.9 in. x 4.8 in. x 6.8 in.  
(including yoke) (228 mm x 123 mm x 172.5 mm)  
Weight: 4.4 lbs. (2kg)

## LED

LED Options: 3000K/96 CRI/600lm  
5500K/80 CRI/800lm  
LM-79-08: 70,000 hours @ 25°C

## Gobo Specifications

Rosco Image Spot Gobo with  
custom carrier

## Working Environment

Ambient Temp.: Working temperature:  
-13° to 104°F (-25° to +40°C)  
Humidity: 20 ~ 90% RH non-condensing

**Approvals:**

Conforms to UL STD # 62368-1 & # 60950-22  
Certified to CSA STDS C22.2 # 62368-1 & # 60950-22



**Ratings:**

IP65 Outdoor Use in Wet Environments

**Environmental:**

Disposal of Old Electrical & Electronic Equipment



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste.

## 3-YEAR LIMITED WARRANTY

Rosco Laboratories warrants to the first retail purchaser that this Product will be free from defects in workmanship and material for a period of three years from the date of original purchase.

For warranty service you must be able to provide proof of purchase. Should this Product prove defective during the warranty period, please contact your local Rosco office for Return Authorization. No warranty service will be performed without Return Authorization.

At Rosco's sole discretion, covered Products will be repaired or replaced with new or refurbished equipment or a model of like kind and quality. Exchanged or replaced parts and Products assume the remaining warranty period of the original product covered by this limited warranty. You are responsible for securely packaging the defective Product and returning it to Rosco as per the instructions of the Return Authorization. Within North America, Rosco will ship the repaired or replaced Product to you freight prepaid. Shipments to other locations will be made freight collect.

This warranty is non-transferable and does not extend beyond the first retail purchase of the Product.

This warranty does not cover damage to the Rosco Product caused by parts not manufactured, distributed or certified by Rosco.

Rosco is not obligated to provide warranty service should the Product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as flood, fire and lightning, improper electrical current or unauthorized service repairs other than those by a Rosco Authorized Servicer.

If a claimed defect cannot be identified or reproduced, you will be held responsible for the costs incurred. Unless otherwise stipulated by state law, all warranties expressed or implied are limited to the three (3) year period of this warranty.

THE WARRANTY AND REMEDY PROVIDED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE. EXCEPT AS PROVIDED IN THIS WRITTEN WARRANTY AND UNLESS EXCLUSIONS ARE SPECIFICALLY FORBIDDEN BY STATE LAW, NEITHER ROSCO NOR ITS AFFILIATES WILL BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, INCLUDING DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING INJURY TO PERSONS OR PROPERTY, RESULTING FROM THE USE OR INABILITY TO USE THE ROSCO PRODUCT, WHETHER RESULTING FROM BREACH OF WARRANTY OR ANY OTHER LEGAL THEORY.



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