Electrical Specifications

Voltage: 110-130V, 50-60Hz, 0.8A, 80W (US-Version)
Ambient Operating Temp. : -13 to 104°F (-25 to 40°C)
Ballast type: Magnetic, not dimmable

Mechanical Specifications

Fixture Body: 7.5in x 5.5in x 17.7in (190mm x 140mm x 450mm)
Total Length: 22in (560mm)
Yoke Base: 6.4in x 7.8in (163 x 198mm)
Yoke Height: 7.5in (190mm) (from base to center)
Total Height: 10in (254mm) (from base to top)

Weight: ES-150: 18lbs (8.2kg), ES-250: 22lbs (10kg)

Gobo Types and Dimensions

Metal or Glass Gobos and Dichroic filters

Fits regular M-size gobos (OD66mm x ID48mm)

Outer Diameter (OD): 66mm (2.6 in)
Max. Image Diameter (ID): 50mm (1.9 in)
Max Thickness: 4mm (0.16 in)

Optical

Lens Options: Standard 19 degree (included), optional lenses in development

Typ. Projection Size = Projection Distance / 3
(for example, at a distance of 12 ft. the resulting image size is 4 ft.)

Typical Range
The range varies greatly with the application and ambient light situation

ES-150:
6 to 42 ft in bright environments
up to 88 ft in dim environments
up to 140 ft in dark environments

ES-250:
9 to 64 ft in bright environments
up to 112 ft in dim environments
up to 200 ft in dark environments

ECO Spot™ 150/250 User Manual

Thank you for choosing an ECO Spot™ Gobo projector. This unit is equipped with a fan cooled discharge light bulb. Please read this manual before installing or operating this fixture, follow the safety precautions listed below and observe all warnings.

Package Contents

- ✓ Projector with power cord and integrated gobo holder and rotator
- ✓ Light Bulb

Safety Information

- This product is not for household use, it presents risks of severe injury or death due to fire and burn hazards, electric shock, lamp explosion and falls.
- Place your fixture at a suitable place with good air flow.
- Keep flammable materials away from the fixture.
- Minimum distance to flammable material = 1 ft (0.3m).
- Minimum distance to illuminated surface = 3.3 ft (1.0m).
- Provide a minimum clearance of 4 in (10cm) around air vents.
- Use only genuine spare parts for part replacement.
- Do not look directly into the lamp; it can result in eye damage.
- Don't touch the hot surface during operation, use gloves if necessary.
- Always unplug the unit from the power mains before any service is done.
- Allow 20 minutes to cool down before servicing the unit.
- Replace Lamps only with the same type other lamps may cause damage.
- Light fixtures should be installed and maintained only by qualified personnel with experience in lighting equipment and general electrical experience.
- Disconnect the fixture from AC power before handling it.
- Always ground (earth) the fixture electrically.
- Use only a power source that complies with local building and electrical codes and has both, overload and ground-fault protection.
- Do not use the fixture if the power cable or power plug is in any way damaged, defective or wet, or if they show signs of overheating.

Handling Instructions

- Before the initial start-up, please unpack and carefully check for damage caused during transportation.
- Place your fixture at a suitable place with good air flow.
- Make sure there are no flammable materials close to the lamp.
- After turning off the lamp, it will take 5-10 minutes to restart.
- Depending on the ambient temperature, the lamp may need up to 60 sec. to start.
- When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.
- Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.

Warranty

One Year from Date of Purchase

Contact

Globus New Media LLC
Tel 1-888-987-1112 or 1-408-416-4444
Fax 1-408-416-4445
www.globusnewmedia.com

Focusing

- Power up the projector by pressing the switch next to the power cable in the back.
- Turn on the gobo rotator with the other switch in the back and turn it off when the gobo projects in the desired position (optional).
- Focus the projection by twisting the lens in and out until the image is well focused. When used for the first time, the lens will often need to be twisted many rotations to reach the focusing point. This can take a few minutes.

Gobo Rotator

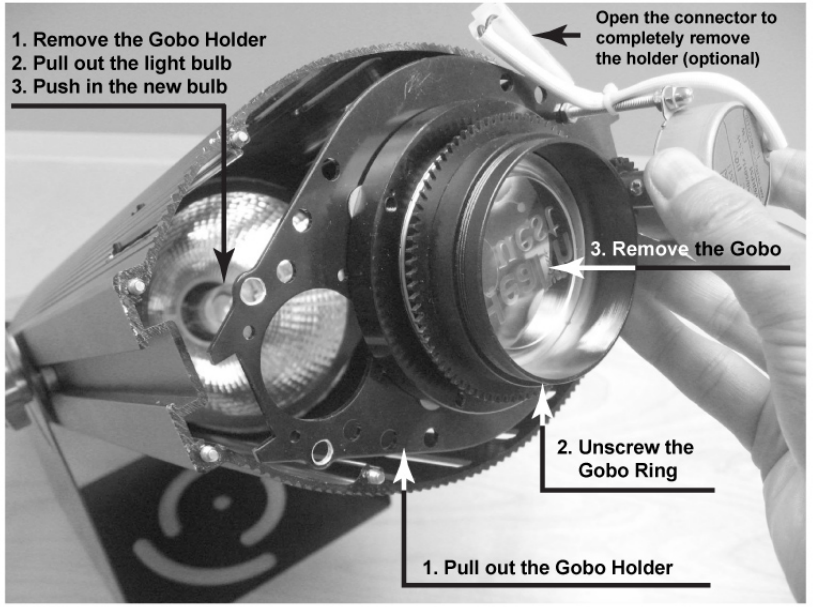
- Turn on and off the gobo rotator with the switch on the back plate.
- Turn on/off repeatedly to switch the rotating direction.
- There are no controls for rotating speed.

Gobo Replacement (see illustration below)

Unplug the power cord and let the projector cool down for 20min. Use caution, the housing and light bulb may still be hot.

- Unscrew the thumbscrews to remove the front cover with the projection lens.
- The gobo rotator with the gobo holder is now exposed.
- Carefully pull out the gobo holder.
- Unscrew the large ring that sits in front of the gobo.
- The old gobo is now accessible, carefully remove and replace it.
- Screw back in the large ring, so that it just touches the gobo, don't tighten it, otherwise it will be hard to remove it later.
- Replace the front cover.
- Power on the projector and refocus the image by screwing the projection lens in or out.

Light Bulb replacement **Gobo Replacement**



Lamp Replacement

- Unplug the power cord and let the projector cool down for 20min. Use caution, the housing and light bulb may still be hot.
- Unscrew the thumbscrews to remove the front cover with the projection lens.
- The gobo rotator with the gobo holder is now exposed.
- Carefully pull out the gobo holder.
- The lamp is now exposed. Remove it by gently pulling it out of the socket. Reverse this procedure for the new lamp. Do not touch the glass of the lamp with your fingers.
- Replace the gobo rotator and the front cover.

Recommended Replacement Lamps:

ES-150

Osram HCI-T 150/943 NDL PB
Base: G12
Color temperature: 4,200 Kelvin
Color Rendering Index CRI: 96
Luminous Flux 14,500lm
Average Bulb Life: 12,000h

ES-250

Philips MSD 250/2 30H
Base: GY9.5
Color temperature: 8,000 Kelvin
Color Rendering Index CRI: 80
Luminous Flux 18,000lm
Average Bulb Life: 3,000h