

# ECO Spot™ LED C20PCE User Manual

Thank you for choosing an ECO Spot™ Gobo projector. This manual covers the ECO Spot C20PCE.

Please read this manual before installing or operating this fixture, follow the safety precautions listed below and observe all warnings.



## Package Contents

- ✓ Projector with driver and power cord, lens
- ✓ Test Welcome Gobo
- ✓ Gobo Holder
- ✓ Allen key for yoke adjustment

## Safety Information

- 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).
- 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.
- Always unplug the unit from the power mains before any service is done.
- Light fixtures should be installed and maintained only by qualified personnel with experience in lighting equipment and general electrical experience.

## Electrical Safety

- Disconnect the fixture from AC power before handling the fixture.
- 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.

## Warranty

One Year from Date of Purchase. Keep your receipt for reference and contact your dealer in case of warranty issues.

### 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.
- 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.

### Projection Lenses

The projector accommodates interchangeable projection lenses to allow optimizing the projection size and resulting brightness at varying distances. The narrower the lens, the smaller and brighter the image will be at a given distance.

### Focusing

- Power up the projector by pressing the power switch in the back.
- 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 outwards many rotations to reach the focusing point.
- Re-adjust the focus if necessary.

### Gobo Rotator

This Model does not have Gobo rotation.

### Dimming

This Model doesn't support dimming or brightness adjustment.

### Yoke

- The projector is mainly designed for wall and ceiling mounting but in many cases, it can also be placed on a table or shelf.
- The yoke allows projector movement in one direction:  
**Up/down.**

**Gobo Placement** (see *Specifications* for Gobo Dimensions)

The projector uses E-Size gobos. See the Specifications for exact dimensions.

- Unscrew the thumbscrew and screw into gobo holder to remove.
- Push the two pins of the gobo retaining ring together and pull out the retaining ring. Carefully remove the old gobo and replace it with the new gobo.
- If you have a glass gobo, place the more reflective side towards the light bulb.
- Replace the retaining ring and make sure it evenly pushes the gobo all the way back.
- Place the gobo holder in the slot and unscrew the thumb screw to lock it. Screw the thumb screw into thread in front of gobo holder so it is not lost. Adjust the focus by screwing the projection lens in or out until you reach a focal point, then fine tuning focus can be down with single turns to achieve full focus.

**Power Supply**

100-240/277V, 50-60Hz, 25W

**Dimensions / Weight**

- Base:** 2.75" x 3"
- Total Length:** 8 - 10" - depends on lens
- Total Height:** 5.5" (incl. yoke)
- Weight:** 2.4lbs

The projection lens adds 0.5 to 2in (12 to 50mm) to the length.

**Gobo Dimensions**

Metal or Glass Gobos and Dichroic filters with up to 3.3mm thickness. Film Gobo Life - 2 - 5 days.

**Standard gobo size (E-Size):**

**Outer Diameter (OD):** 37.5mm

**Image Diameter (ID):** 27mm (max 32mm)

The recommended gobo image diameter for best focusing is up to 25mm. An image diameter of up to 32mm is possible with some yellowing and focusing weakness in the outer projection area.

**LED Lamp**

- Power: 20W
- Rated luminous flux: 1,800lm
- Effective luminous flux: 1,000lm
- Rated Bulb life 30,000h
- Color Temperature 7,000k, +/-500k

**Lens Options**

The projector can be equipped with standard ECO Spot projection lenses.

A larger focal length (f) makes a smaller projection angle and therefore a smaller but brighter image. Currently these lenses are available:

- Wide f=56mm, 25°
- Semi-Narrow f=100mm, 15°

**Ambient Operating Temperature**

-22 to 122°F (-30 to 50°C)