ECO Spot™ LED A10 User Manual

Thank you for choosing an ECO Spot™ Gobo projector.

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

Package Contents

- ✓ Projector with integrated Projection Lens
- ✓ Test Gobo mounted
- ✓ Spare Gobo Retaining Ring
- ✓ User Manual

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 = 1ft (0.3m).
- Do not look directly into the lamp; it can result in eye damage.
- Disconnect the fixture from AC power before handling it.
- 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.
- Light fixtures should be installed and maintained only by qualified personnel with experience in lighting equipment and general electrical experience.
- Follow all local building and electrical codes and apply both, overload and ground-fault protection.

Handling Instructions

- Before the initial start-up, please unpack and carefully check for damage caused during transportation.
- 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. Keep your receipt for reference and contact your dealer in case of warranty issues.

Focusing

- Power up the projector.
- Focus the projection by twisting the lens in the front of the Lens Barrel 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.
- To adjust the rotational gobo position, twist the complete Lens Barrel. You may have to re-adjust the focus.

Mounting Bases

The projector is available with different mounting bases:

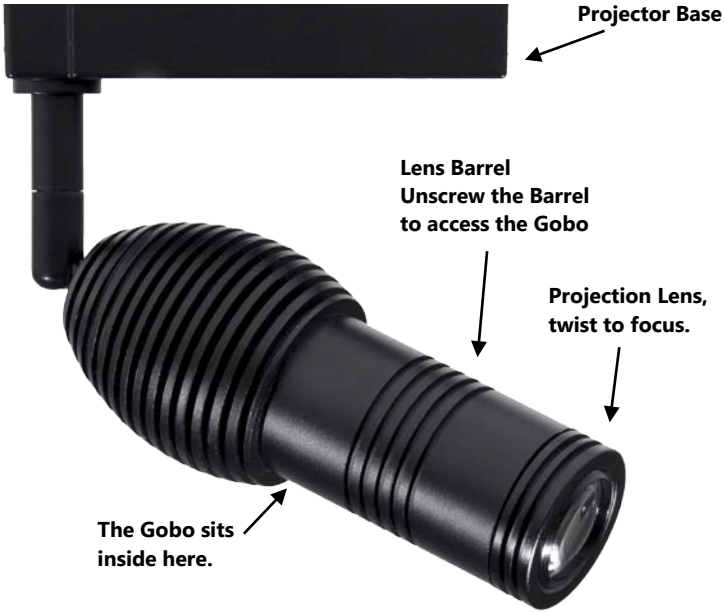
- **Rectangular Wall Base** that can be used to place the projector onto a desk, attach to a wall or ceiling.
- **Track Base** for Halo and compatible systems.
- **Round Wall Base** (special order)

These bases are order options and cannot be interchanged in the field.

Gobo Placement *(see illustrations below)*

The Projector uses D-Size gobos or E-Size gobos with adapter ring included with projector, (*see Specifications for Gobo Dimensions).* See the illustration below

- If the projector is on, turn it off.
- Even though this is a LED projector, the gobo can get hot, please wait a few minutes for the gobo to cool down if the projector was on.
- Unscrew the Lens Barrel.
- The gobo sits inside the Lens Barrel. 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.
- Replace the Lens Barrel but don't screw it in tightly.
- Turn on the projector and adjust the rotational gobo position by twisting the Lens Barrel.
- Focus the image by twisting the front lens in or out.



Line Voltage

110 - 240/277V, 50 - 60Hz, 14W

Ambient Operating Temperature

-13 to 104°F (-25 to 40°C)

Dimensions / Weight

Fixture Body: 9" x 3" (23 cm x 7.6 cm)

Weight 13lbs (6kg)

Gobo Dimensions D-Size

Metal or Glass Gobos and Dichroic filters

The projector takes D-Size gobos:

Outer Diameter (OD): 53mm

Image Diameter (ID): 25mm

Max Thickness: 4mm

Larger ID up to 38mm is possible for pattern projection and some loss in focusing quality, for optimal focus stay within 24mm image size. An adapter for the smaller **E-Size gobos** is available.

LED Lamp

- Extremely high light density for ultra-efficient projection.
- Power: 10W
- Bulb life 50,000h
- Color Temperature 6,000k, +/- 500k
- Rated Luminous flux: 850lm
- Effective luminous flux: 580lm

Lens Options

The projector comes with a standard projection lens.

Medium-Narrow f=70mm 28°

Other lenses available as build options on request.

ECO Spot™ Photometrics — ECO Spot is a Trademark of Globus New Media LLC dba Gobosource

Model / Gobo Size	Color Temp.	Lens	Beam Mult.	Effective lm	CD	Value	PROJECTION DISTANCE IN FEET (ft)												
							3	6	9	12	15	20	24	30	36	42	64	88	112	136	200	300
ES-A10 D-Size	5000k +/- 500	70mm (28°)	0.46	574	3,456	Size (ft)	1.4	2.8	4.1	5.5	6.9	9.2	11	14	17							
						Brightn.(fc)	384	96	43	24	15	9	6	4	3							

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How to Read the Illumination Values

Foot Candles (ft)	For a quick overview, the illumination values in the tables are color coded. There are many factors that determine the visibility of a projection, such as ambient light, color and reflectiveness of the projection surface, competing light, gobo colors, projector color temperature, and other factors. Therefore our recommendations should only be used as guidelines and we cannot guarantee a successful application. If you are unsure, please call us to discuss.
Projection Size Calculation	For the resulting Projection Size at any given Distance, Multiply the number in the "Beam Mult." column with your Projection Distance. **Projection Size = Distance x Beam Mult.** For the Distance needed to achieve a desired Projection Size, Divide the Projection size by the Beam Multiplier. **Distance = Projection Size / Beam Mult.**
300+	Extreme brightness for extremely bright environments, i.e. bright areas, additionally flooded with daylight, such as Lobby-, Retail-, Trade Show-, Environment. Outdoors (shady, no direct sunlight).
150-300	Very high brightness for very bright environments, such as light flooded Office-, Lobby-, Retail-, Trade Show-, Environment. Color gobos project in vibrant colors. Outdoors well visible at night with vibrant colors.
45-150	The most common brightness bracket for bright environments, such as Office, Lobby, Retail, Tradeshow. Outdoors extremely bright at night. Color gobos project well.
15-45	Sufficient brightness for environments, such as Bars, Clubs, and intimate Restaurants, Theaters, and dimmed Conference rooms. Outdoors well visible at night. Color gobos should preferably be used with lighter colors and the projection surface should be light and somewhat reflective.
15-2	Only advisable for dark environments and subtle projection of light colored artwork, preferably on light, reflective projection surface. If all conditions are met, the max. listed image distance/size can be doubled in most cases.

Metric Conversions: For Meters multiply feet by .3048. For Lux multiply footcandles by 10.76