

Supplemental User Manual for ECO Spot™ -CE and -CER Gobo Changers

Description

This manual covers the gobo changer functionality of ECO Spot projectors equipped with a gobo changer. It covers all models with the product number ending in -CR for (interior) and -CER (exterior) gobo changer models.

Please also refer to the regular product manual for general information.

Changer Controls: The changers have the controls for Gobo changing functions located on the backplate.

Exterior Versions: The controls for exterior projector models are protected with a removable glass cover.

Number of Gobos: The changers have four gobo slots.

Changer Memory: The changer configuration remains in memory even when the projector has been turned off or after a power loss.

Wireless remote Control:

The projector comes with a wireless remote controller with a range of 50ft or more in most environments. The remote control is practical when the projector is out of reach, for simple setup, or manual override of the running changer program.

If you use the changer in manual mode or have all gobos slots occupied and just need a simple timer function, the remote control may be all you need to setup your projector without having to use the control pad described below.

Functions:

- **Mode:** Switch between manual, remote control or automatic mode (programmed through the keypad).
- **Manually** advance gobos back or forth.
- Set a general change **time interval** between 5s and 120s
- Set the **changer sequence** clockwise (CW) or counter-clockwise (CCW)



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Control Pad Functions

Cycle through the different modes with the **UP** and **DOWN** buttons.

Select a value with the **SELECT** button.

Change the value with the **UP** or **DOWN** button, the value will be applied immediately.

To go back, press the **BACK** button.



Mode	Display	Range	Function
DMX Address	Address	001– 512	Set DMX Address (ignore, unless a DMX controller is connected)
Gobo Setup	Set Gobo 1 - 4	Off 1 – 255	Set Gobo show time from 1 to 255s Set to Off to skip the Gobo slot
Direct Select Gobo	Gobo Number	1 – 4	Select Gobo to show instantly. In MAN mode: Stay at selected slot In AUTO mode: Skip to slot but timer keeps switching
Changer Mode	Play Mode	MAN AUTO RMT	MAN: Manual Mode, advance gobos per Direct Gobo Select on back panel. AUTO: Gobo timer is active RMT: Control Gobo selection with remote control
Changer Direction	Play Dir	Left - Right	Select changer direction: 1,2,3,4,1... or 1,4,3,2,1...
Changer Speed	Play Speed	1 – 10	Set rotation speed (not timer) from 01: very slow to 10: very fast (recommended).
Display Brightness	Black DIM	1 – 10	1: very dim, 10: max. brightness
Backlight On time	Black Delay	5 – 30	Set backlight on time between 5 and 30 seconds

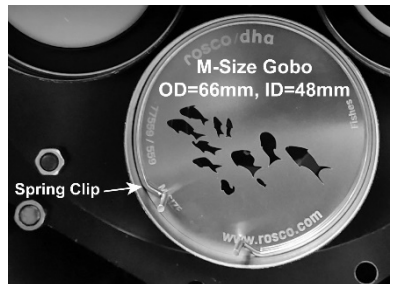
Gobo Size and Types

Depending on the projector model, the changer takes either E-Size or M-Size Glass or Metal Gobos and Dichroic filters. For consistent focus, we recommend using gobos of the same type in all slots. See the chapter "Focus adjustment for mixing various Gobo Types" below if you need to mix different gobo types.

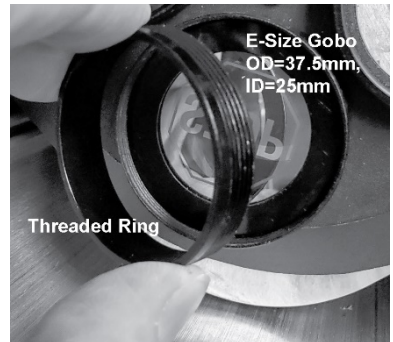
Placing gobos:

Unscrew the thumbscrews to remove the front cover with the projection lens attached.

M-Size gobos are held in with a retaining ring (spring clip), unclip the retaining ring and place the gobo inside.



E-Size gobos are retained with a threaded ring, unscrew it, place the gobo inside and screw the ring back in. **Tighten it only lightly or it may be hard to unscrew later.** If it's hard to unscrew, it helps to grab it in only one spot instead of the two opposite sides.



If you have a glass gobo, place the more reflective side towards the light bulb. Always make sure the gobo sits evenly all the way back inside the retaining ring. Temporarily replace the front cover and check if the image projects in the correct position. Remove the front plate again and make adjustments if needed.

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Focus adjustment for mixing various Gobo Types

If you mix thin gobos such as metal gobos with thicker glass gobos, some of the gobos may be out of focus because the focal plane is not even. In such cases try placing one or two spacer rings in front of the thinner gobo and remove the spacer from the thicker gobo slot to make it come out further. Contact us if you need spacer rings.



Gobo Dimensions

This changer takes **M-Size or E-Size** Metal or Glass Gobos and Dichroic Filters

M-Size:

Outer Diameter (OD): 66mm

Max. Image Diameter (ID): 48mm

Max Thickness: 4mm

E-Size:

Outer Diameter (OD): 37.5mm

Max. Image Diameter (ID): 25mm

Max Thickness: 4mm

Gobo Slots

Gobo Slots: The changers have four (4) gobo Slots, unoccupied slots can be skipped.

Interval time: Predefined between 5, 10, 20, 40, 90, 120 seconds. Custom intervals can be individually programmed per slot through the control board.

Controls

Through Remote Control

Programmable through control board. The number of active gobo slots is selectable from one to four gobos. Slots can be skipped.

Control Board Position

Interior Fixtures:

On back plate

Exterior Fixtures:

On back plate behind a removable glass cover