Lens Kit Installation Guide

This guide will instruct owners and installers of gobo projectors through the process of installing and configuring projectors.

Summary

For long-distance projection, 90 W and higher power projectors are generally recommended. However, in specific circumstances with moderate to dim ambient light conditions, lower power projectors are suitable and efficient for long-distance projection with the use of an ultra-narrow lens.

The ultra-narrow lenses (f=210 mm 13º and f=220 mm 12º) are normally only compatible with M-size projectors such as the B90, B150 and B300 and require an adapter for E-size PCE projectors. GoboSource sells M-size to E-size PCE projector adapters, as well as a kit with both a lens and adapter.

Included Parts

Each adapter kit includes a standard M-size lens tube, an E-size thread adapter, a M-size lens lock ring and a silicone O-ring. The adapter barrel may be pre-assembled depending on size and space allocated in the standard projector package, as well as the quantity of projectors ordered. If a lens kit is ordered, the lens may also be installed in the adapter.

Picture 1: Lens kit parts

Assembly Instructions

Depending on the size and quantity of shipped product, ordered lens adapters arrive in different states of preassembly. The following instructions assume that the lens adapter has arrived with no pre-assembly. These directions are identical for C20PCE, C40PCE and C60PCE units, utilizing only a different thread adapter for the C20PCE.

Instructions	Photo example
1. Secure the E-size thread adapter into the wide end of the M-size lens tube. This adapter fits the standard threads for a E-size projector.	
2. Screw the lock ring onto the ultra-wide lens, up to the end of the threading.	
3. Roll the silicon O-ring up to seat below the lock ring on the ultra-wide lens threads.	
4. Screw the ultra-wide lens into the M-size lens barrel, opposite to the thread adapter inserted in Step 1.	
5. Tighten the lens tube clockwise and lock-ring counter-clockwise to compress the O-ring, ensuring lens assembly is watertight. **Lens assembly is complete.**	

Before attaching the completed lens assembly, any necessary gobo interchanges in the projector should be done. Most projectors will come installed with a generic measuring grid gobo, and any stock or custom gobos will be included in separate packing materials. Ensure that the desired gobo has been inserted with the opaque black or gray coating facing away from the light source. Facing the projector, the gobo design should appear mirrored across the vertical plane. (See fig. 1)

Figure 1: Proper Gobo Orientation