The Lowel Rifa eX is a professional lighting instrument. Read these instructions and lamp manufacturer's warnings carefully before operating.

- Do not pull power cable to open fixture.
- Always operate with diffuser safety panel in place.
- Not for household use, use only for photographic lighting (film, video, imaging) purposes.
- When setting Rifa eX up always orient it with Warning Label on top.
- Do not leave Rifa eX unattended.
- Always unplug unit and allow it to cool before lamping, changing lampheads, storing.
- Do not use near flammable materials. Handle reflector with care.
- Do not use more than one lamp at a time.
- Never touch hot parts.
- Do not pull power cable while fixture is damp.
- Do not fold Diffuser when storing.
- Remove only to exchange for accessory lampheads.
- Always orient it with Warning Label for voltage being used.
- Make certain that lamp head socket accepts this base.
- Do not exceed maximum wattage for unit.
- Make certain to attach Safety Cables.
- When mounting light overhead use Safety Cables.
- Always unplug unit and allow it to cool before lamping, changing lampheads, storing.
- Always use S afety Cables.
- It is not necessary to remove supplied Standard Lamphed when storing or transporting Rifa eX. Remove only to exchange for accessory lampheads.

Avoid placing unit too close to faces, delicate objects or ventilation.

Different lamp base, Rifa-44EX supplied standard supplied lamphead.

Use extra caution while installing & removing lamps, contacts may be stiff at first.

Lamp Code Volts Watts *K Avg Life FC(lux)5' FC(lux)10'
LC-44EX – Maximum 300w
JCV14.5-50W 12/14 50 3200 100 hr 7 (80) 2 (22)
GDC 12 100 3200 100 hr 8 (81) 2 (22)
GCB 30 200 3200 100 hr 20 (220) 5 (58)
FSL 120 250 3200 100 hr 39 (418) 10 (111)
CP96* 120 300 3400 250 hr 49 (532) 14 (147)
GLF/P44 230 250 3200 100 hr 35 (381) 9 (102)
CP97* 230 300 3200 75 hr 54 (582) 15 (159)

Different lamp base, Rifa-44EX supplied standard lamphead socket accepts this base.

NOTE: Above lamps are for Standard lampheads as supplied with models of Rifa eX System and pre-2007 models of Rifa-lite. See instructions for Accessory Lampheads or www.lowel.com for information on use and different lamp options.
Lowel Rifa® eXchange® Instructions

Setting up Rifa eX

Warning: Do not pull power cable to open light. Doing so may damage the cable & fixture. Make sure fixture is unplugged before setup.

- Remove the Rifa eX unit from its sleeve and mount and lock on suitable stand.
- Release tilt lock handle, tilt light to horizontal, relock tilt handle, release the Velcro strap around the folded assembly.
- Reaffix the strap to itself.
- Loosen thumb screw located on back end of fixture.
- While holding the assembly base push the socket/lamp cage assembly (avoid touching lamp) inward until the assembly “click-locks” into position.
- Tighten thumbscrew clockwise to lock fixture open.

For increased balance, use Rifa Balance Bar accessory.

Attach diffuser panel by placing it over the front of the light inserting the corner pins of the reflector frame through the grommets of the diffuser, securing it with Velcro strips located around the reflector.

Never use more than one diffuser at a time.

Always operate Rifa-lite with diffuser panel in place.

Attach 16” extending (switched) power cord to captive cable IEC connector.

Unplug light and allow to cool for at least five minutes before disassembly.

- Detach Soft Egg Crate (if used) and front diffuser. To prevent damage to the diffuser, wrap material around tube and place in pocket of light storage sleeve.
- Secure egg crate to the body of the Rifa with Velcro strips located around the edge of the reflector housing.
- Remove lamps and head before collapsing. Place supplied protective caps on head & post.

For Rifa eX 88 only

Uses screw-thread Edison base lamps. Designed for maximum output from Rifa eX 88, especially when used with the 80w lamp. Use with Rifa Balance Bar for improved balance on stand.

eXchange™ System Accessory Lampheads

(See eXchange System Lamphead Instructions Sheet for more information)

Lowel Rifa eX uses quick-swapping accessory lampheads of the eXchange System, to increase versatility in lamps & output. It is not necessary to remove supplied Standard Lamphead when storing or transporting Rifa eX.

- To remove standard (supplied) lamphead, make sure fixture is unplugged & cool to touch. With diffuser removed, fixture open, on stand, hold rear fixture stem, and push in & twist lamphead to release.
- Use same method to install accessory head, taking note of proper bayonet pin / cutout alignment.

FLO-X1

For all Rifa eX models

This accessory lamphead is designed to take screw-thread Edison base (normal household socket) daylight fluorescent lamps. It will also allow use of low wattage incandescent lamps (27W or less)

 Wattage / Voltage

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 - 300W</td>
<td>120V</td>
</tr>
<tr>
<td>235 - 300W</td>
<td>240V</td>
</tr>
<tr>
<td>50 - 100W</td>
<td>12V</td>
</tr>
<tr>
<td>200W</td>
<td>30V</td>
</tr>
</tbody>
</table>

FLO-X3

For all Rifa eX models

This accessory lamphead is designed to take screw-thread Edison base (normal household socket) daylight fluorescent lamps, switched separately.

 Wattage / Voltage

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>27W or 80W @ 120/240V, 65W @ 120V</td>
<td>Rifa eX 88</td>
</tr>
<tr>
<td>27W at 120/240V or 65W at 120V</td>
<td>Rifa eX 66</td>
</tr>
<tr>
<td>27W at 120/240V</td>
<td>Rifa eX 65</td>
</tr>
<tr>
<td>27W at 120/240V</td>
<td>Rifa eX 44</td>
</tr>
</tbody>
</table>

FLO-X5

For Rifa eX 88 only

Uses screw-thread Edison base lamps. Designed for maximum output from Rifa eX 88, especially when used with the 80w lamp. Use with Rifa Balance Bar for improved balance on stand.

 Wattage / Voltage

<table>
<thead>
<tr>
<th>Wattage</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>27W or 80W @ 120/240V, 65W @ 120V</td>
<td>Rifa eX 88</td>
</tr>
<tr>
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<td>Rifa eX 66</td>
</tr>
<tr>
<td>27W @ 120/240V</td>
<td>Rifa eX 65</td>
</tr>
<tr>
<td>27W @ 120/240V</td>
<td>Rifa eX 44</td>
</tr>
</tbody>
</table>

Attaching Soft Egg Crates

Soft Fabric Egg Crates are a valuable accessory for controlling the approximately 60° beam angle of Rifa, which can cause unintended light spill in other areas of your shot. They can also help prevent a moving subject from becoming overlit as they approach the light. Egg Crates are available in 3 different dispersion angles (30, 40 & 50 degree) for each model of Rifa. Egg Crates will lower output of Rifa eX.

- 1 Unfold Egg Crate accessory. With the diffuser already attached, place the Soft Egg Crate over the front of the light, inserting the corner pins of the reflector frame into the metal tube sockets located in the egg crate corners.
- 2Secure the egg crate to the body of the Rifa with Velcro strips located around the edge of the reflector housing.

Packing & Storing Rifa eX

Unplug light and allow to cool for at least five minutes before disassembly.

- Hold stand mounting bracket, loosen thumbscrew on mounting arm assembly and push shaft forward until frame has collapsed.
- Smooth reflector material, and secure with Velcro strap, tilt light down, remove unit from light stand and place in sleeve.

Fifa eX Beam Angles with Soft Egg Crates

(Beam Angle = Point at which intensity drops to 50% of maximum)

- Rifa alone - 75°
- Rifa with 50° Egg Crate
- Rifa with 40° Egg Crate
- Rifa with 30° Egg Crate
The Rifa eX is a dedicated soft light, with quick set-up and beautiful output. With a little practice, good results are easy to achieve.

First, a brief overview...
Soft light is soft because the size of its source is large when compared to the size of the subject being lit. In a fixture such as a Pro-light, its source is small when compared to the subject being lit. In a fixture such as a Pro-light, the physical size of the source is much smaller. This makes the light very directional and as a result, the shadows it throws are sharper. A clear sunny day will result in sharper shadows because of the smaller (harder) source.

Hard light is hard because the size of its source is small when compared to the subject being lit. In a fixture such as a Pro-light, the physical size of the source is much smaller. This makes the light very directional and as a result, the shadows it throws are sharper. A clear sunny day will result in sharper shadows because of the smaller (harder) source.

Distance from source to object becomes a factor in sharpness as well. The further away from the subject the source is, the smaller the source appears to be & therefore the harder its shadows.

Rifa eX Models
There are 4 models of Rifa, with front diffusers in sizes of

- 16 x 16" (Rifa 44-EX)
- 21 x 21" (Rifa 55-EX)
- 25 x 25" (Rifa 66-EX)
- 32 x 32" (Rifa 88-EX)

So logically, at same distance, the 88 will be softest of all because its source (the lit diffuser) is the largest.

Rifa eX 55, 66, & 88 all use the same standard lamphead & socket. While you should never use higher wattage lamps than the maximum recommended for each model, you can use lower wattage lamps in the larger models for increased softness at the same wattage / output.

For example, using the 500 watt EHC lamp in the Rifa eX 55 at a distance of 5 feet will give you 72 foot candles of light with the amount of softness from a 24 square inch source, yet using the same 500 watt EHC lamp in the Rifa 88 from a distance of 5 feet, will give you the approx. the same 72 foot candles of light; yet a greater amount of softness because its now coming from a larger 32 square inch source.

The TH-X200 Accessory Lamphead can quickly swap to allow greater use of lower wattage lamps in larger sized Rifa’s, to reduce output while retaining softness. It is the supplied standard lamphead for Rifa eX 44

Positioning the Rifa
Soft light falls off in output strength much more quickly than a hard source of identical wattage, because the soft source is so much larger in size (light is dispersed in a wider direction). As a result, soft sources, like Rifa are designed to be used fairly close to the subject. This can create problems of light spill on the areas behind the subject. The first step in minimizing background spill is to move the subject away from walls, by 6 feet or so if possible. This will allow a light placed on a stand higher than the subject to fall off towards the floor, before hitting the wall.

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Using Fabric Egg Crates
Another situation that can arise as a result of using soft sources close to the subject is fluctuation in exposure level that can occur if the subject moves back & forth in relation to the light source. With the subject being so close, its effect can be noticeable in the camera. An easy solution to this, which can also help reduce the light spill described previously, is to add an accessory fabric egg crate to the front of the light. Soft fabric egg crates are available in different degrees of dispersion, so where the Rifa’s have an output that will cast light in almost 180 degrees (with the strongest portion of the output being in the center 70-75 degrees), the egg crates will trim this to either 30, 40 or 50 degrees, depending on the model of egg crate used. They do a great job of preventing the subject from “burning up” if they happen to get too close to the light source for your exposure.

Mixing with daylight
For setups when you are shooting in a room that also has windows, where the desire is to mix the output of the Rifa with daylight, there are 2 options.

First, using Accessory eXchange Lampheads, you have the option of removing the supplied tungsten-halogen lamphead and swapping to one of several heads that take screw-threaded daylight fluorescent lamps. Use only professional photography lamps, such as our ‘On-Color’ 80w, not hardware store specials. They may be “daylight” but their low Color Rendering Index will mean poor color rendition across the light spectrum. See eXchange System Lamphead Instructions Sheet or lowel.com for more information.

Learning to Light Better...

Lowel Rifa® eXchange® Instructions

Basic Starter Setups using Rifa eX

Setup 1
1 Rifa, 1 Tota-light
To light an interview subject with the Rifa eX alone, You can place the light at a 45° angle, 2-3 feet higher than the subject, with the light tilted down towards the subject. From there, you can arc the angle of the Rifa-lite out in either direction from 6:00 (at camera - this will give the most even lighting) to either 3:00 or 9:00, depending on how much dramatic contrast & fall off you want in your shot. Place the broad throw Tota so it lights the background without spilling onto the subject.

Setup Keys: A Rifa eX with 250 - 500W lamp B Pro-light with 100 - 250W lamp C Tota-light with 300 - 500W lamp

Lowel Rifa® eXchange® Instructions

An Introduction to Rifa eX for the New Pro

The second option involves using some level of daylight color correction gel. The goal is to match the warmer 3200k tungsten lamp in the Rifa, with the cooler daylight color (5000-6500k). Because daylight can vary in color, depending on whether its direct sun, overcast clouds, blue sky or any combination of the above, you will need to choose either 1/4, 1/2 or full day blue to most closely match the Rifa to the daylight in the room. Rifa Day Blue Gels are custom cut to fit the Rifa’s. They are sized to cover the front diffuser with enough excess to allow them to be clipped to the velcro pockets on the side of the light. You can use clothespins, Lowel Gel-jaws, or any small spring loaded clip.

These are just some starting suggestions.
For an in-depth understanding of the creative decisions involved in the art of lighting, we suggest a visit to Lowel’s EDU section at lowel.com. You will find an in-depth lesson on using the eXchange lampheads of Rifa eX.
### Light Controls

#### Replacement Diffusers

For better light control. Each Egg Crate attaches quickly and afterwards folds up to be stored in its own small light-weight bag.

**30° x 30° Egg Crate**
- Code: LC-44EC/30
- Weight: 6 oz (170 g)

**40° x 40° Egg Crate**
- Code: LC-44EC/40
- Weight: 9 oz (256 g)

**50° x 50° Egg Crate**
- Code: LC-44EC/50
- Weight: 11 oz (311 g)

#### Soft Egg Crates

For better light control. Each Egg Crate attaches quickly and afterwards folds up to be stored in its own small light-weight bag.

**30° x 30° Soft Egg Crate**
- Code: LC-88EC/30
- Weight: 0.5 lb (228 g)

**50° x 50° Soft Egg Crate**
- Code: LC-88EC/50
- Weight: 1 lb (448 g)

### Rifa Daylight Gel Sets

For connecting Rifas to mix with varying strengths of daylight, they attach to Rifa’s velcro pockets with clothespins.

Each set contains 3 sheets:
- Day Blue
- 1/2 Blue
- 1/4 Blue

**For LC-44EX**
- Code: LC-44D
- Size: 23 x 16" (58.4 x 40.6 cm)

**For LC-55EX**
- Code: LC-55D
- Size: 29 x 22" (73.7 x 56 cm)

**For LC-66EX**
- Code: LC-66D
- Size: 33 x 26" (84 x 66 cm)

**For LC-88EX**
- Code: LC-88D
- Size: 39 x 32" (99 x 81.3 cm)

### Mounts

#### Uni TO Stand

**Code: UN-55**
- Weight: 2.6 lbs (1.2 kg)
- Size: 21.5" (55.2 cm) folded
- Maximum height: 7" (2.2 cm)

**Base diameter:** 46" New stand, based on design combination of Uni-stand & Omni-stand. More stable than Uni-stand, more compact than Omni-stand. For Rifa 44.

#### KS Jr. Stand

**Code: DT-33**
- Size:
  - Maximum height: 7" (2.3 m)
  - Collapsed length: 2.3" (65 cm)

**Weight:** 3.5 lbs (1.6 kg)

#### KS Stand

**Code: KS**
- Size:
  - Maximum height: 9" (2.4 m)
  - Collapsed length: 3" (91 cm)

**Weight:** 4 lbs (1.8 kg)

#### Tota-clamp

**Code: T1-30**
- Weight: 4 oz (113 g)
- Clamps onto pipes, shelves, etc. up to 1 1/8" (2.8 cm) thick.

**50° x 50° Egg Crate**
- Code: LC-88EC/50

**Balance Bar**

**Code: LC-30**
- Size: 12.5" (31.8 cm)
- Weight: 6 lb (0.5 oz (184 g))

This Rifa Balance Bar is an extension arm accessory that mounts between the Rifa-lite and its stand fitting. When installed, it can shift the Rifa’s center of gravity to allow better stand balance. It can facilitate angling and tilting of the light when necessary, such as on a boom arm, without the need to overtighten stand fitting knob. Install Balance Bar as shown.

### Rifa Light Diffusers

#### Stable Light Diffusers

- **For Rifa 44, 55, 66.**

#### Diffusers

- **For Rifa 55EX**
- **For Rifa 66EX**
- **For Rifa 88EX**

#### Code: LC-55D
- Size: 25 x 25" (66 x 66 cm)

#### Code: LC-66D
- Size: 29 x 22" (73.7 x 56 cm)

#### Code: LC-88D
- Size: 32 x 32" (81.3 x 81.3 cm)

#### Code: LC-88EC/50
- Size: 90° x 90° Soft Egg Crate

#### Code: LC-66EC/30
- Size: 30° x 30° Egg Crate

#### Code: LC-55EC/30
- Size: 20° x 20° Egg Crate

#### Code: LC-44EC/30
- Size: 10° x 10° Egg Crate

### Replacement Accessories

#### Uni TO Stand

- **Code: UN-55**
- **Code: UN-55D**

#### Tota-clamp

- **Code: T1-30**

#### Ejector

- **Code: T1-808**
- **Code: T1-80**

#### 16’ Switched AC Cable

- **Weight:** 13 oz (369 g)
- **Code:** T1-808

#### 10’ Unswitched Cable

- **Weight:** 1.1 lbs (5 kg)
- **Code:** T1-808

#### 16” (4 m) Eurocord

- **Weight:** 13 oz (369 g)
- **Code:** T1-801

#### 10” (2.5 m) T/O UK Cord

- **Weight:** 13 oz (369 g)
- **Code:** T1-802

#### 5” Omni 30v Cable

- **Weight:** 2 oz (57 g)
- **Code:** T1-802

#### Lighter/Car Adaptor Cable

- **Weight:** 4 oz (113 g)
- **Code:** T1-802

#### Safety Cable (3)

- **Weight:** 2 oz (57 g)
- **Code:** CM-50

#### Problems, info, repairs, etc.

Lowel equipment and kits are sold through authorized Lowel Dealers and, in some countries, Authorized Lowel Distributors. Repairs, problems, suggestions, and requests for brochures, instructions, parts lists may be handled by your authorized Lowel Dealer (Distributor) or directly with Lowel. Electrical repairs should be made only by Lowel or a qualified electrician. Rifa-lite®, Rifa®, and eXchange® are registered trademarks of Lowel-Light Manufacturing, Inc. U.S. Patent No. 4594645, ver. 6.7 © Lowel-Light Mfg., Inc. 2010

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