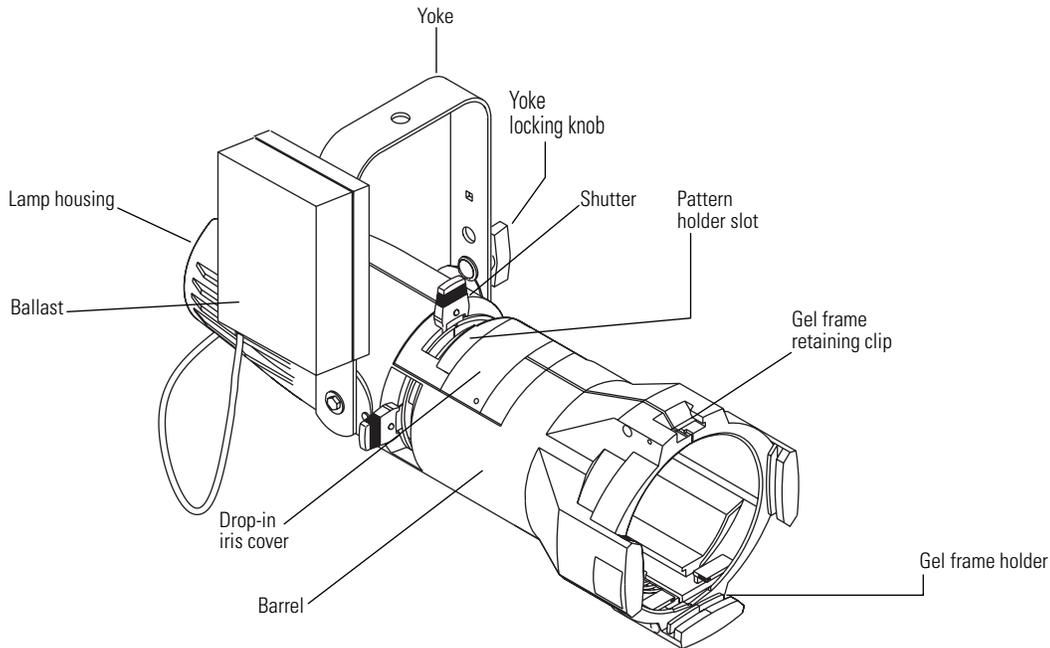


# Source Four™ HID jr and Source Four™ HID jr Zoom UL/cUL User Guide



## Lamp type and general information:

Do not use lamps other than the following lamp type in Source Four HID jr/Zoom fixtures. **Use of lamps other than specified below will void UL/cUL safety compliance and your warranty.**

- Source Four HID jr/Zoom is suitable for damp locations
- Yoke Can be canopy mounted
- No recessed mounting

**Caution!** Source Four HID jr/Zoom is **NOT** dimmable. Dimming will damage the ballast and void warranty.

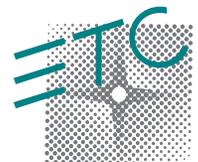
Lamp Type	Manufacturing Codes	Watts	Base	Bulb	LCL	Ave. Hrs.	Initial lumens	Color temp
Ceramic Metal Halide	CDM-T 150W/830	150	G12	T6	56mm	9000	14000	3000°K
	CDM-T 150W/942	150	G12	T6	56mm	9000	12700	4000°K
	MD150T6/U/G12/830	150	G12	T6	56mm	9000	14000	3000°K
	MBI150/T/30	150	G12	T7	57mm	6000	11500	3000°K
	MBI150/T/40	150	G12	T7	57mm	6000	11250	4000°K

Table 1: HID lamp reference

## Ballast information

**Caution!** The Source Four HID jr/Zoom **cannot** be dimmed.

- Acceptable voltage is 120V (+/- 10%) 50/60HZ only
- Operating current of 1.5 Amps
- Inrush current of <14 Amps
- Room ambient temperature should not exceed 104°F (40°C)
- Lamp ignition voltage is 4.5Kv, non-hot restrike
- Ballast case temperature should not exceed 167°F (75°C)
- The ballast is attached to the Source Four HID jr/Zoom by two screws, non-removable



## Installing or replacing the lamp

The lamp must be installed before you use the fixture.

**Note:** Verify that the lamp you intend to install is correct.

Replace the lamp if it becomes damaged or thermally deformed.

**WARNING!** Let lamp cool before replacing.

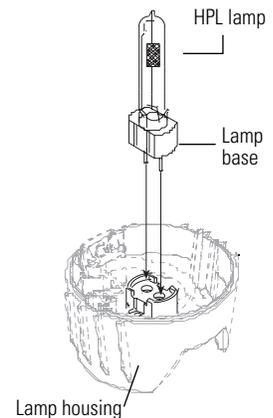
1. Disconnect power to the Source Four HID jr/Zoom before installing the lamp.
2. Loosen the knurled bolt on the back of the lamp housing and pull the housing straight out.
3. Holding the lamp by the base, remove the lamp from its box.

**Note:** To avoid premature lamp failure, do not touch the lamp glass. If you do touch the lamp, clean it carefully with rubbing alcohol and a clean, lint-free cloth before operation.

4. Insert lamp base into socket assembly as show in **Figure 1**.
5. Push down on the lamp base until the lamp seats firmly.

**Caution!** Improperly installed lamps cause premature lamp failure and socket problems.

6. Reinstall the lamp housing by aligning the bolt hole and tightening the knurled bolt.

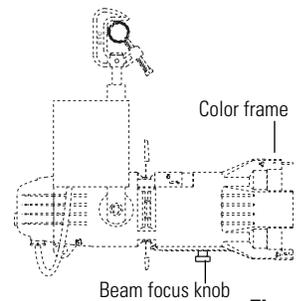


**Figure 1**

## Focusing the beam

On a fixed field angle Source Four jr/Zoom, with a 26°, 36° or 50° lens, adjust the lens position to focus the edge of the beam. On a Source Four HID jr Zoom, adjust the position of both lenses to set the beam's spread and to focus the edge of the beam. The Zoom lenses give you a range from 25° to 50°.

1. Loosen the beam focus knob(s) on the underside of the barrel. See **Figure 2**.
2. Slide the lens(es) forward or backward to achieve the desired beam edge.
3. Once the fixture is focused, tighten the beam focus knob(s).



**Figure 2**

## Shaping the beam

You may shape the beam with the shutters, a pattern, or an optional drop-in iris (ETC part #7062A1011). See **Figure 3**.

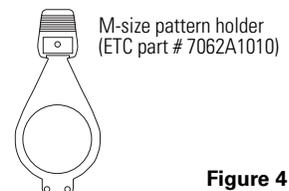
### Pattern projection

The pattern holder slot is on the top side of the barrel, immediately in front of the shutters. It accommodates the M-size pattern holder shown in **Figure 4**. The M-size pattern holder's handle should bend away from the shutter handle at a 30° angle. If your pattern holder's handle is straight, you may bend it far enough to not interfere with the action of the shutter handle.

Use an optional donut (ETC part #7060A1037) in the accessory holder to enhance pattern projection.



**Figure 3**



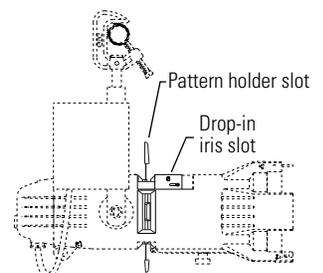
**Figure 4**

### Drop-in iris slot

The drop-in iris slot is on the top side of the front barrel, immediately in front of the pattern holder slot. See **Figure 5**. When it is not in use, a small sheet metal cover secured with two crosshead screws prevents light leakage and retains the iris assembly. To install an iris, follow these steps.

**Caution!** Be certain the fixture is not hot before installing the iris.

1. Use a Phillips screwdriver to loosen the screws on the drop-in iris slot cover. Do not remove the screws.
2. Slide the cover completely forward, exposing the slot.
3. Insert the iris. The flat side must be toward the shutters and the iris handle should extend out of slot.
4. Slide the slot cover back toward the shutters until it meets the iris handle. Leave enough space to move the iris handle. Tighten the screws.



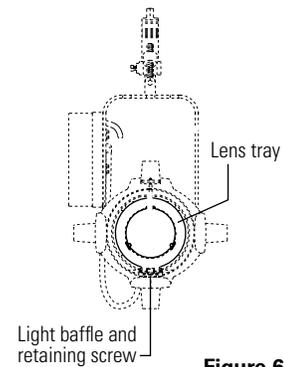
**Figure 5**

## Switching lens assemblies

Follow these steps to replace a fixed field angle lens with Zoom lenses.

1. Loosen the screw at the front of the light baffle. See **Figure 6**.
2. Pull the light baffle out of the barrel.
3. Remove the beam focus knob from the bottom of the barrel and slide the lens assembly from the barrel.
4. Slide the Zoom lens rear assembly into the barrel and install its beam focus knob.
5. Slide the Zoom lens front assembly into the barrel and install its beam focus knob.
6. Slide the light baffle back into place.
7. Replace and tighten the screw at the front of the light baffle.

**Note:** Reverse this procedure to replace Zoom lenses with a standard lens.



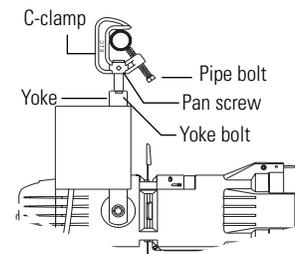
**Figure 6**

## C-clamp mounting instructions (C-clamp not included)

The C-clamp attaches the fixture to the mounting pipe and allows you to adjust the position of the fixture once it is mounted (**Figure 7**).

1. Tightly fast the C-clamp to the yoke with the provided yoke bolt and lock washer.
2. Insert and tighten the Pan screw.

**Note:** A Canopy mounting option is also available.



**Figure 7**

## Adjusting the C-clamp

The C-clamp attaches the fixture to the mounting pipe and allows you to adjust the position of the fixture once it is mounted.

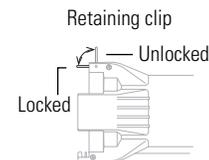
1. Place the C-clamp on mounting pipe, then tighten the pipe bolt to secure it.
2. Loosen the C-clamp pan screw and rotate the yoke to the desired position.
3. Tighten the pan screw to lock the fixture into position.

## Color frame retaining clip

The color frame holder is equipped with a spring-loaded retaining clip that prevents color frames and accessories from falling out of the holder.

**Caution!** Always hang Source Four HID jr/Zoom with the color frame retaining clip in the locked position.

1. Release the retaining clip by pushing it sideways. The retaining clip will pop open.
2. Insert the color frame.
3. Press the retaining clip down until it locks into position.



**Figure 8**

## Cleaning lenses

**Caution!** Change lenses if they become visibly damaged to the extent that their effectiveness is impaired, for example, by cracks or deep scratches.

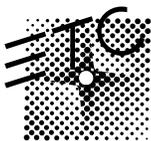
1. Remove the lens assembly. See "Switching lens assemblies" on page 3.
2. Remove safety screen.
3. Dampen a clean, lint-free cloth with vinegar or household ammonia. You may also use water, but it will leave spots which you may remove by polishing the lens gently with a clean, dry cloth.

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**WARNING!** Never use glass and window cleaner or any abrasive material to clean lenses. Glass and window cleaners will stain the lens surface. Abrasive materials (such as steel wool) will damage lenses.

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4. Starting from the center, gently wipe the lens.
5. Replace safety screen.
6. Replace the lens assembly.



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Specifications subject to change. Source Four™ HID jr and Source Four™ HID jr Zoom are protected by US patent number 5,446,637.

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