



Irideon™ FPZ

User Manual

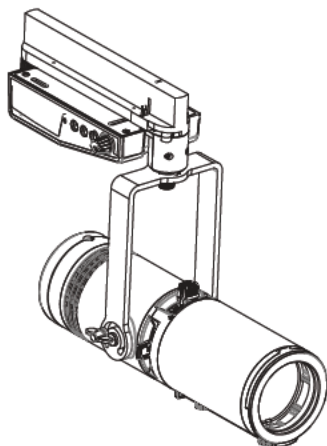
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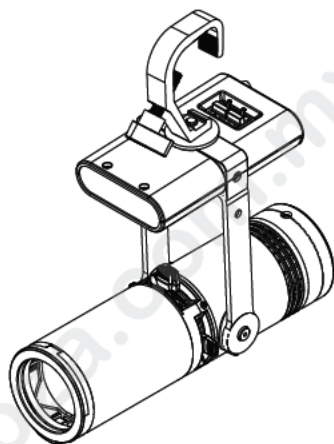
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Introduction

The Irideon FPZ takes the beauty and punch of the Source Four Mini beam and puts it into a fixture designed to work in any architectural environment. The Irideon FPZ has two available mounting options: track-mount and portable, which includes a miniature C-clamp.



Track-mount



Portable



WARNING: Please note the following safety warnings before use:

- Do not mount the fixture on or near combustible surfaces.
- Do not operate the fixture without a lens installed, or with a scratch or cracked lens. Damaged lenses must be replaced.
- Use in dry locations only, where humidity does not exceed 90 percent (non-condensing). These fixtures are not intended for outdoor use.



WARNING: Use the track version with ceiling-mounted track only.



WARNING: To reduce the risk of fire and electric shock, use the track-mount version only with the DataTrack™ (EUTRAC®) track system.

**AVERTIR:**

Pour éviter le risque d'incendie ou de choc électrique avec le modèle adaptateur pour rail, utiliser uniquement avec une alimentation par rail DataTrack (EUTRAC).

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

IMPORTANT SAFETY INSTRUCTIONS

WARNING - To reduce the risk of FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS:

- 1) Keep lamp away from materials that may burn.
- 2) External temperature after 5 minutes of full-brightness operation 34°C (93°F).
- 3) External temperature when steady state is achieved 54°C (129°F).

SAVE THESE INSTRUCTIONS

Specifications

Physical

- Die-cast aluminum construction (A380 grade)
 - Fine-texture, high-temperature powder-coated paint
 - Steel yoke with 0.406" diameter mounting hole
 - Rotating shutter assembly $\pm 175^\circ$
 - E-size gobo pattern holder (included) 37.5 mm with a 25.4 mm image area
 - Track-mount fixture:
 - Compatible and ETL-listed for DataTrack (EUTRAC) brand track
 - DataTrack color matching track adapter included
 - Portable fixture:
 - C-clamp mount (included)
 - Optional accessory for Unistrut® mounting (order separately, part number 7191K1000)
 - IP20 rated
 - Zoom range to suit a variety of throw distances
 - Tool-free tilt and beam adjustment
 - High-impact resistant, thermally insulated knobs and shutter handles
 - Captive accessory slot for pattern holder (included)
 - Locking, stainless steel, full hard shutters in a tri-plane assembly, 0.40 mm (A301 grade)
 - Magnetically held integrated media holder for 3" diameter color media or diffusion or 1.75 mm thickness dichroic glass
-

Electrical

- Power at full intensity: 20W (typical), 24W (maximum)
 - Input voltage options:
 - 100–240V, 50/60Hz
 - Requires power from a non dimmable source
 - Inrush (first half-cycle)
 - 120V: 11A
 - 240V: 24A
 - Portable fixture: 3 ft power cable hard-wired to fixture with mains connector options of NEMA 5-15P, Schuko, or UK
-

LEDs

- Cree LED source
 - Irideon FPZ 3000K: 80+ CRI
 - Irideon FPZ 3000K Gallery: 90+ CRI
 - Irideon FPZ 4000K: 80+ CRI
 - Irideon PZ 5000K: 80+ CRI
 - Long-life LED: 35,000 hours L70 lumen maintenance
-

Optical

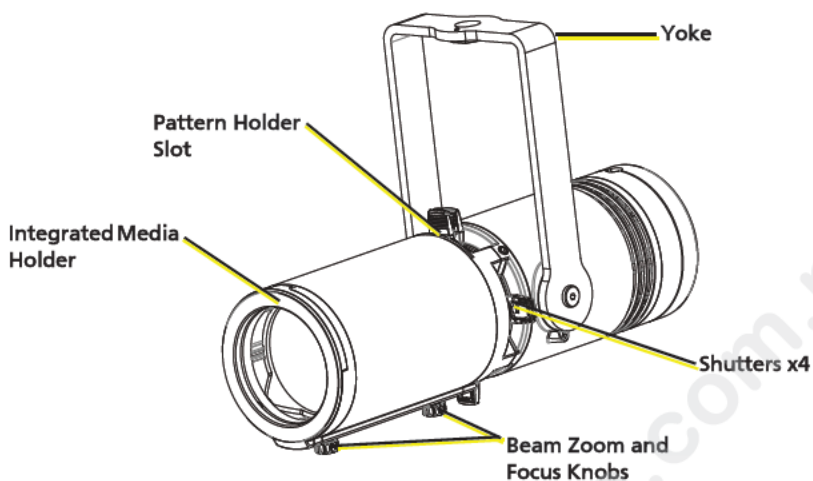
Built-in zoom optics
(25–50 degree field-angle)

- Beam edge continually adjustable hard to soft
 - Projector-quality, high-contrast lenses
-

Thermal

- 0°C to 40°C (32°F to 104°F) ambient operating temperature
-

Basic Assembly

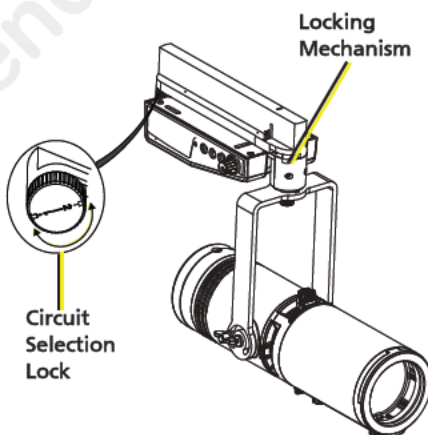


(Illustration shows fixture body only)

Installation

Installing Track-Mounted Fixture

- 1: Insert the DataTrack adapter into the track. The adapter only fits into the track one way with the tabs nesting into the track groove.
- 2: Rotate the locking mechanisms to lock the adapter into place.
- 3: Use the circuit selection lock to select the circuit. The desired circuit number should point toward the center of the adaptor.

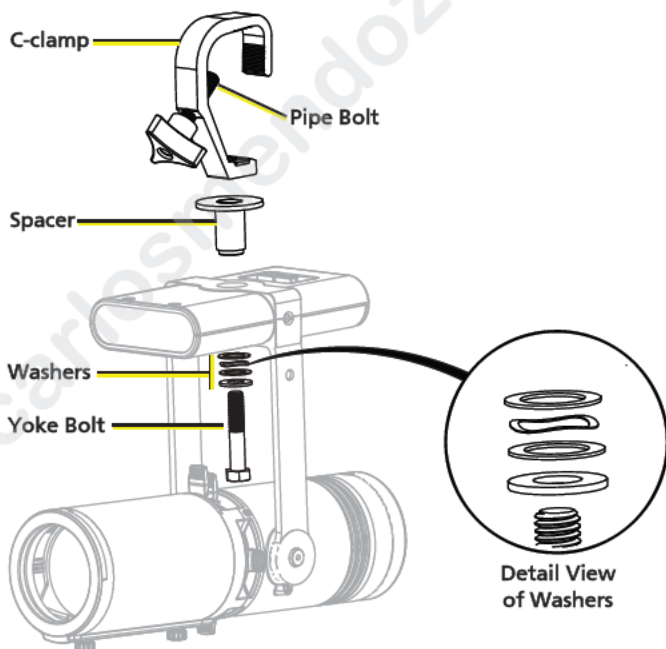


WARNING: When using the circuit selection lock, ensure the selected circuit is a constant power circuit. Dialing into a dimmable circuit may cause fixture damage that will void the ETC warranty.

Installing Portable Fixture with 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. The C-clamp will fit a 3/4" to 2" pipe. Two different length pipe bolts are provided to accommodate different pipe sizes.

- 1: Insert the spacer into the driver box through the hole in the top of the yoke.
- 2: Tightly fasten the C-clamp to the yoke with the provided yoke bolt and washers.
- 3: Place the C-clamp on the mounting pipe, and then tighten the pipe bolt to secure it. Use the standard pipe bolt to secure the fixture to larger mounting pipes. If necessary, exchange the standard pipe bolt for the longer pipe bolt (included) to secure the fixture to smaller mounting pipes.
- 4: Loosen the C-clamp yoke bolt and rotate the yoke to the desired position.
- 5: Tighten the bolt to lock the fixture.

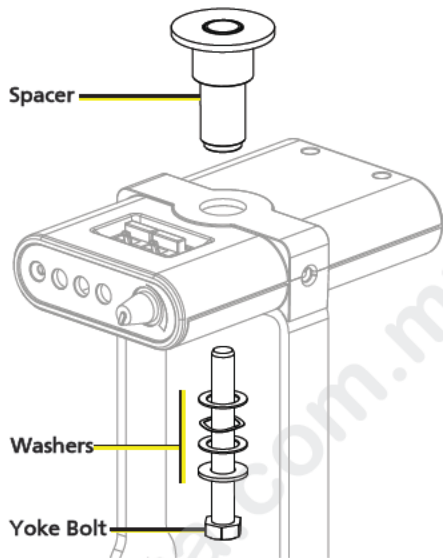


CAUTION: *Tighten the C-clamp pipe bolt to about 18 in/lb (approximately finger-tight plus up to one-quarter turn). Do not use excessive force.*

Installing Portable Fixture on Unistrut Track

You can install the portable fixture on Unistrut track using the Irideon FPZ Unistrut Kit (7191K1000).

- 1: Insert the spacer into the driver box through the hole in the top of the yoke.
- 2: Use the yoke bolt and washers to fasten the fixture to the Unistrut track.



Connecting Cables to Portable Fixture

- 1: Connect RJ45 data cables to the top of the driver box, one for data in and one for data thru (in either position), as needed.
 - To order RJ45-to-female XLR adapter, use part number W6538.
 - To order RJ45-to-male XLR adapter, use part number W6539.
- 2: Connect the fixture to the power source.



- Note:**
- *The Irideon FPZ fixture is not self-terminating. You must terminate the last fixture in line with a 120 ohm resistor. Please contact your ETC customer service representative to purchase part number N4086.*
 - *No more than **32 DMX devices** can be daisy-chained together on a single run. For runs of fixtures totaling more than 32 DMX devices, use a DMX splitter to split the DMX runs.*
 - *When using DMX over Cat5, use Cat5e or better. Cable distance must not exceed 300 m (1000 ft).*
 - *The Irideon FPZ fixture cannot be controlled via network protocols and should not be connected to a system network.*

DMX Pinout

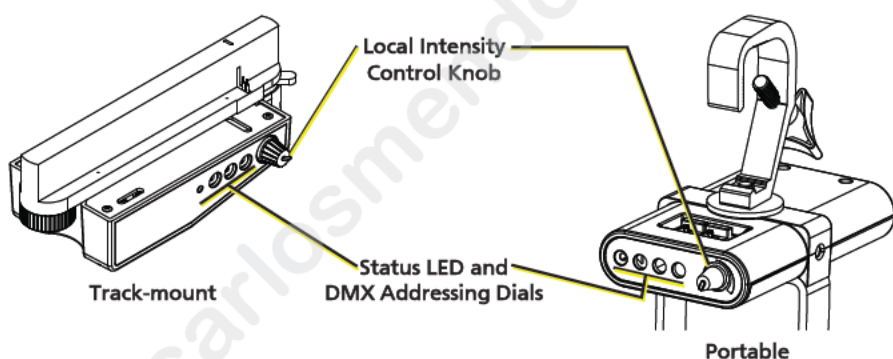
Pin	Description
1	DMX +
2	DMX -
3	DMX2 +
4	Not Connected

Pin	Description
5	Not Connected
6	DMX2 -
7	Iso Common
8	Iso Common 2

Addressing

Fixture addresses must be set between 1 and 512. There are three addressing dials on the track adapter (track-mounted fixture) or driver box (portable fixture). To address, use a small flat-head screwdriver to move the arrow to the desired address number.

Each Irideon FPZ fixture must be considered a separate DMX device for the purpose of DMX line-loading calculations. The Irideon FPZ only has an intensity channel.



In this addressing example,
the fixture is addressed to 503.



Note: When using RDM with track-mounted fixtures, ETC recommends connecting no more than **20 fixtures** on a single run.

Alternative DMX Addressing Functions

Certain DMX addresses are reserved for special functions. Addresses 700 and above can be used for setting the intensity level of the fixture. The second and third address numbers set the intensity level. The intensity knob is ignored when using these DMX addresses. See the following chart for examples:

DMX Address	Function
701	Intensity at 1%
710	Intensity at 10%
725	Intensity at 25%
799	Intensity at 99%
800	Intensity at 100%

Using the Local Intensity Knob

A local intensity knob is located on the track adapter (track-mounted fixture) or driver box (portable fixture). See the illustration in [Addressing on page 7](#).

Use the local intensity knob to adjust the intensity with or without DMX being present.

- When DMX is not present, use the knob to control the intensity.
- When DMX is present use the knob to set the maximum light output. Dimming will be proportional in relation to that setting. When the knob is set to Off, the maximum light level over DMX is 100%.
- When DMX is lost and the knob is set to Off, the light will go dark.
- When DMX is lost and the knob is set to a level greater than 0, the light goes to the setting of the local knob.

Initial Power Up

Control and configure the Irideon FPZ over a DMX/RDM control network or directly from a connected computer running appropriate software. When controlling the Irideon FPZ directly from a PC, a Gadget II interface or DMX/RDM gateway is required.



Note: *Changing the address via RDM will override the local DMX addressing dials. However after the address has been set via RDM, changing the dials will then override the RDM setting.*

Status LED

The status LED indicates the DMX status. When DMX is present, the LED turns on for 10 seconds, and then it turns off.



Note: *Changing the DMX start address, the local intensity knob, or a change in DMX presence will “wake” the status LED.*

When the local intensity knob is set to off, the status LED will flash when there is a loss of DMX.

With the local intensity knob set to any other position, the status LED will flash for 10 seconds when there is a loss of DMX. Then the LED will turn off.

Adjustments

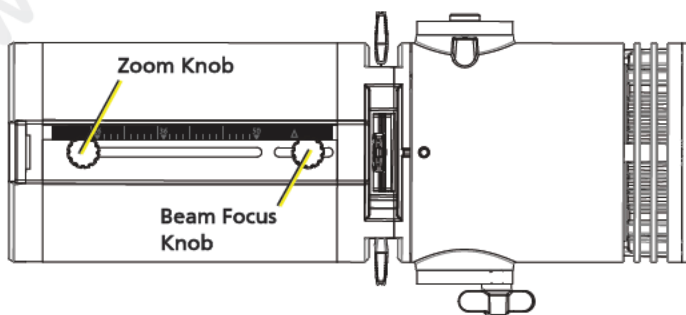
Setting the Angle with the Yoke

- 1: Loosen the yoke locking knob. Do not remove the knob.
- 2: Tilt the fixture to the desired position.
- 3: Tighten the yoke locking knob to secure position.



Zooming and Focusing the Beam

- 1: Loosen the beam focus or zoom knob located under the barrel. Do not remove either knob.
- 2: Slide the lens forward or backward to achieve the desired beam edge or angle.
- 3: Once the fixture is focused, tighten the knobs.



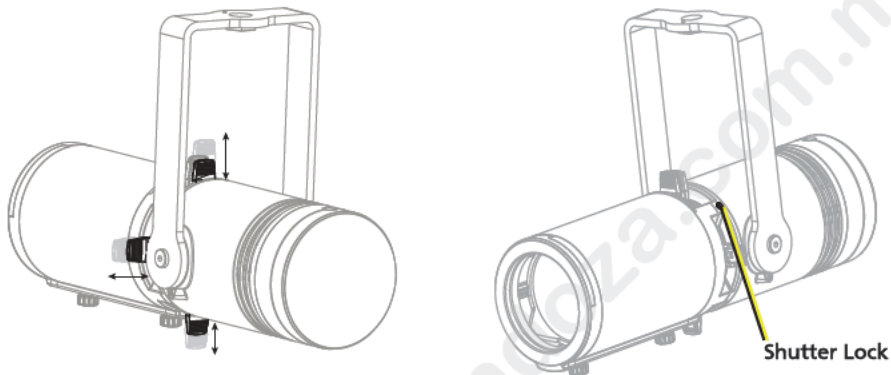
Shaping the Beam

The beam can be shaped using the four shutters or with a pattern.

Shaping the Beam Using Shutters

The Irideon FPZ has four shutters: left, right, top, and bottom. Each shutter can be pulled out or pushed in to create the desired beam shape.

Once the shutters are set, you can lock the shutters in place by using a 3 mm Allen wrench (provided).

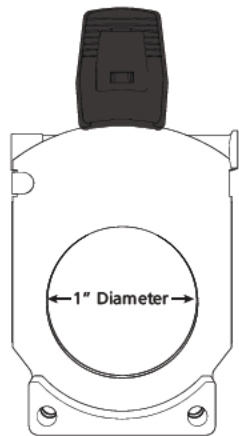


Shaping the Beam with a Pattern

The Irideon FPZ has a pattern-holder slot on the top side of the shutter barrel, in front of the shutter. It accommodates an E-size (37.5 mm with a 25.4 mm image area) pattern. The maximum pattern thickness that can be accommodated is 4 mm (0.158").

When the slot is not in use, a small plastic cover prevents light leakage.

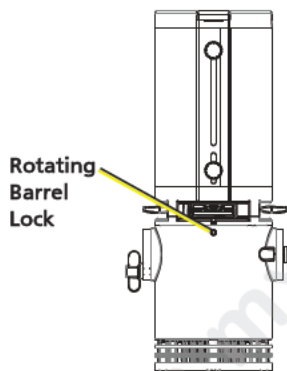
- 1 Slide the cover knob on the fixture completely to the side to expose the slot.
- 2 Insert the pattern holder.



- Note:**
- *When not using a pattern, remove the pattern holder and close the cover to prevent distortion of the beam shape.*
 - *Ensure that the pattern-holder slot is on the top side of the shutter barrel. If necessary, rotate the shutter barrel to position the pattern-holder slot on the top side.*

Rotating the Lens Barrel

- 1: Unlock the rotating barrel lock using the 2 mm Allen wrench (provided).
- 2: Rotate the barrel to the desired location.
- 3: Lock the rotating barrel lock using the 2 mm Allen wrench (provided).



Using the Integrated Media Holder

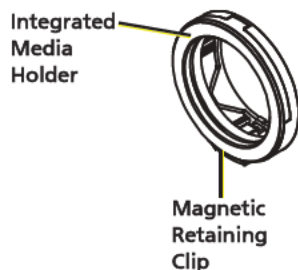
The Irideon FPZ comes equipped with an integrated media holder, which is a metal frame used to hold color media (often referred to as gel) or diffusion in front of the lens. The media holder is equipped with a magnetic retaining clip that prevents the media from falling out. The integrated media holder can take color media, diffusion, or dichroic glass with a 3" diameter.



WARNING: Make sure the media holder is locked in position with the magnetic retaining clip

Installing Color Media or Diffusion

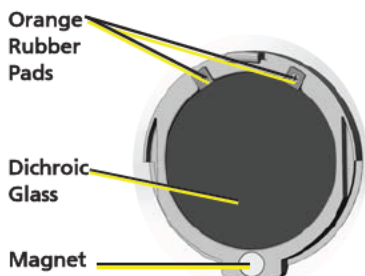
- 1: Release the magnetic retaining clip by gently pushing it up.
- 2: Insert the media.
- 3: Replace the media holder by lining up the magnets.



Installing Dichroic Glass

The integrated media holder accommodates 1.75 mm-thickness dichroic glass.

- 1: Release the magnetic retaining clip by gently pushing it up.
- 2: Place the dichroic glass into the groove.
- 3: Replace the holder by lining up the magnets.



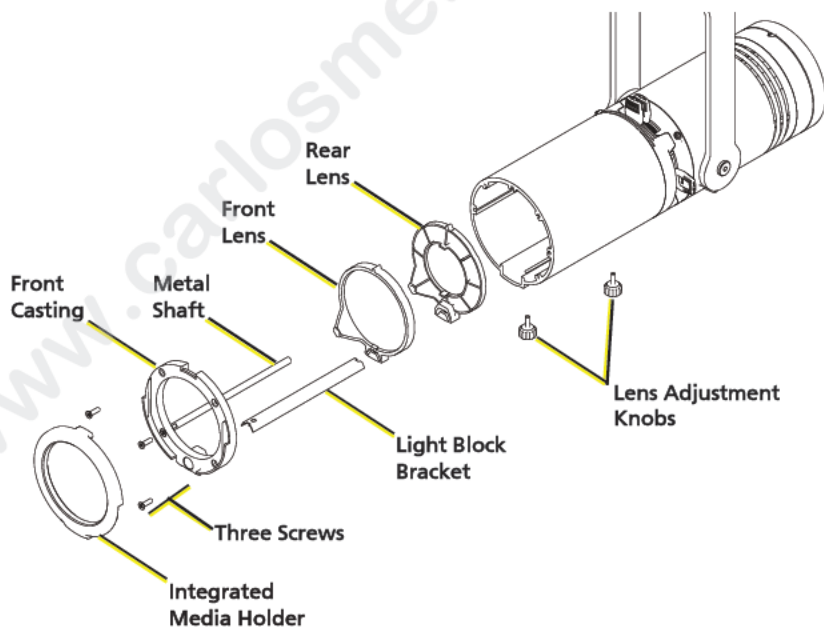
Cleaning the Glass Lens



WARNING: Do not use ammonia-based or other harsh commercial cleaners. Clean lens only as directed.

Commercially available glass cleaning agents should be avoided as they may contain ammonia, other harsh chemical detergents, or abrasive agents. These cleaners may damage the glass surface and the Anti-Reflective coatings. Do not immerse or soak the glass in any cleaning solution.

- 1: Remove the integrated media holder.
- 2: Use a Phillips screwdriver to remove the three screws from the front of the fixture.
- 3: Remove the front casting and the metal shaft.
- 4: Remove the light block bracket.
- 5: Remove the lens adjustment knobs.
- 6: Remove the front and rear lens holders.
- 7: Remove dust with a blast of oil-free air or wipe with a clean, lint-free cloth. Isopropyl alcohol, distilled water, or a 50%-50% mixture of each can be used to clean the glass surface.
- 8: Replace the lens.





Note: *You may find it easier to insert the metal shaft into its pocket of each lens before replacing the lens.*

- 9: Replace the lens adjustment knobs.
- 10: Replace the light block bracket. Make sure that it fits into its pocket of each lens.
- 11: Replace the metal shaft if you have not previously done so.
- 12: Replace the front casting.
- 13: Replace the three screws, which hold the casting onto the fixture.
- 14: Replace the integrated media holder.



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