



# Irideon™ FPZ

## User Manual

Rev A

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Part Number: **7191M1200-1.0.0** Rev: A

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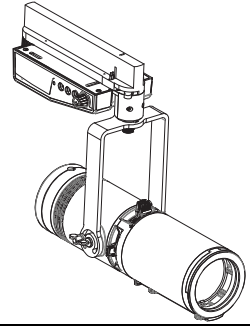
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# Introduction

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. With built in zoom optics, three-plane shutters and a rotating barrel, the FPZ can create a sharp or soft focused light in any shape you need. When used with either glass or metal gobos, logos and designs look great. With the addition of local level control as well as individual DMX addressing, the Irideon FPZ can do it all, and look great while doing it.



 **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 the Irideon FPZ fixture in dry locations only, where humidity does not exceed 90 percent (non-condensing).**  
**These fixtures are not intended for outdoor use.**

 **WARNING:** Use with ceiling-mounted track only.

 **WARNING:** To reduce the risk of fire and electric shock, use the track mount version only with the EUTRAC track system.

 **AVERTIR:** Pour éviter le risque d'incendie ou de choc électrique utiliser seulement avec une alimentation par rail 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

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## 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) 37.5mm with a 25.4mm image area
  - Track mount
    - Compatible and ETL-listed for DataTrack (EUTRAC) brand track
    - DataTrack color matching track adapter included
- IP20 rated
  - Magnetically held media holder
  - 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, 0.40mm (A301 grade)
- 

## Electrical

- Input voltage options:
    - 100-240V, 50/60Hz
- Power at full intensity: 20W max
  - Inrush (first half-cycle)
    - 120V: 11A
    - 240V: 24A
- 

## LEDs

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

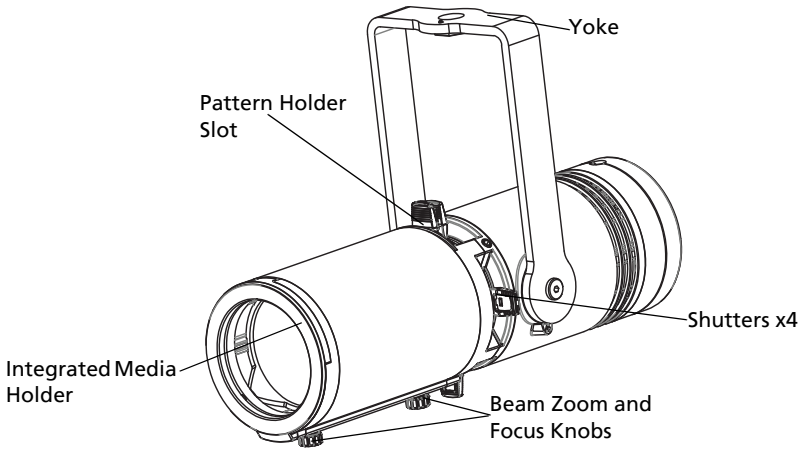
## Optical

- Built-in zoom optics (25-50 degree field-angle)
- Beam edge continually adjustable hard to soft
  - Projector-quality, high-contrast lenses
- 

## Thermal

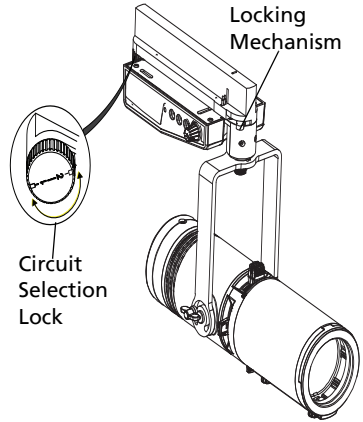
- 0°C to 40°C (32°F to 104°F) ambient operating temperature
-

# Basic Assembly



## Installation

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



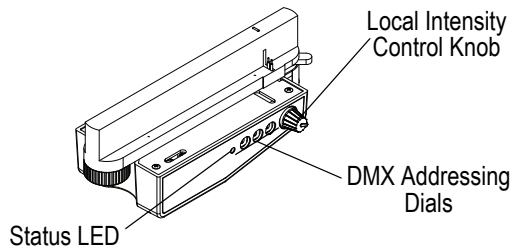
**WARNING:** When using the circuit selection lock, ensure the selected circuit is a constant power circuit. Dialing into a dimmable circuit may cause fixture damage that will void the ETC warranty.

- Step 4: Focus the fixture. See [Adjustments](#) on page 5.

# Addressing

Fixture addresses must be set between 1 and 512. There are three addressing dials on the track adapter. 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:

*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, a DMX splitter will need to be used to split the DMX runs.*

*When using RDM with track 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. This can be used to adjust the intensity with or without DMX being present.


- When DMX is not present, the intensity will be controlled by the knob.
- When DMX is present, the maximum light output can be set by the knob. Dimming will begin from that setting. When the knob is set to off, the maximum light level over DMX is 100%.
- When the knob is set to off, data loss behavior is instant, and the light will go dark.

When the knob is set to a level greater than 0, the data loss behavior goes to the setting of the local knob.

## Initial Power Up

Control and configuration of the Irideon FPZ can be achieved 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 Interface or DMX/RDM gateway is required.

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**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.*

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## Status LED

The status LED indicates the DMX status. When DMX is present, the LED will be on solid for 10 seconds, and then it will go into an off time out state.

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**Note:** *Changing the DMX start address, the local intensity knob, or a change in DMX presence will wake the status LED from its time out state.*

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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 go into an off time out state.

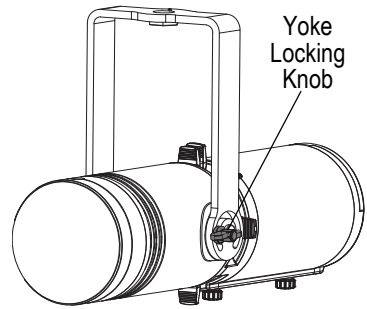
## Adjustments

### Adjusting the Yoke Position

The Irideon FPZ provides multi-positioning capabilities within its yoke for overall fixture angle.

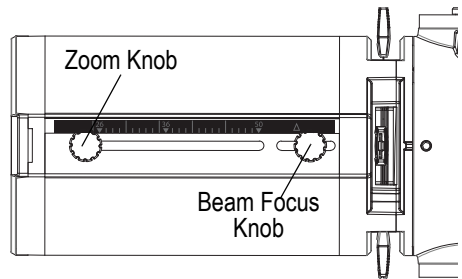
## Setting the angle with the yoke

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



## Zooming and Focusing the Beam

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

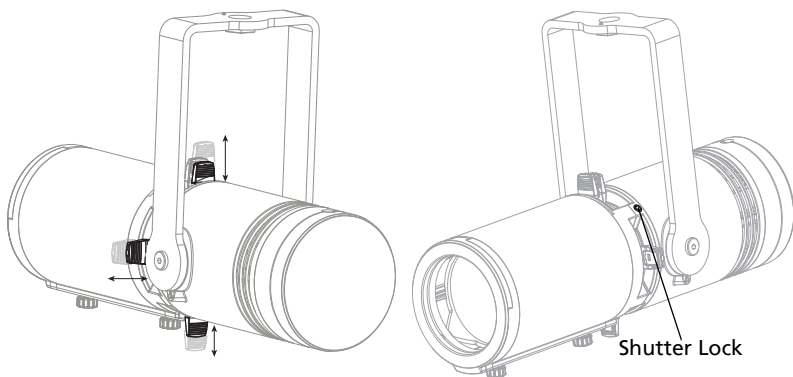


## Shaping the Beam

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

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.

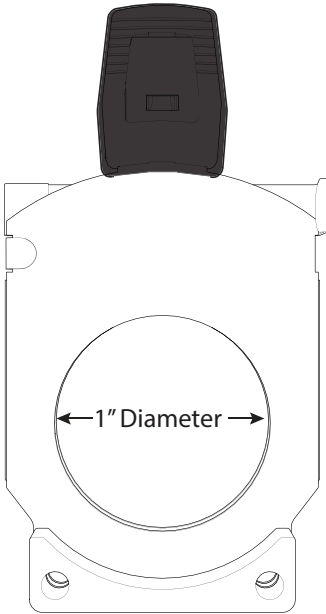
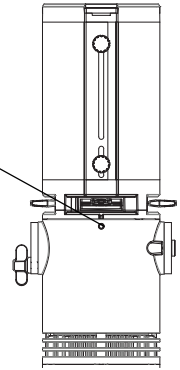
Once the shutters are set, you can lock the shutters in place by using a 3mm Allen wrench (provided).



## Rotating The Lens Barrel

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

Rotating Barrel Lock



## Pattern Projection

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 (37.5mm with a 25.4mm image area) pattern. The maximum pattern thickness that can be accommodated is 4mm (0.158").

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

- Step 1: Slide the cover knob completely to the side to expose the slot.
- Step 2: Insert the pattern holder.
- Step 3: Slide the slot cover back toward the shutters until it meets the pattern handle. Leave enough space to move the handle.

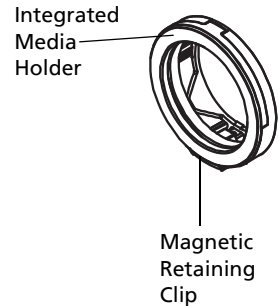
# Integrated Media Holder

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 or diffusion with a 3" diameter.



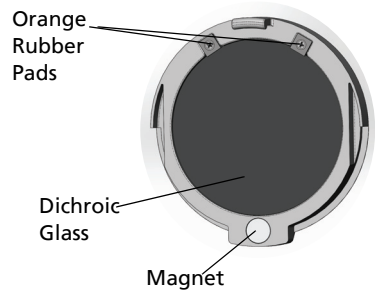
**WARNING:** Make sure the media holder is locked in position with the magnetic retaining clip.

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



## Installing Dichroic Glass.

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



# Cleaning the Glass Lens

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**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.**

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A fixture diagram is available on [page 10](#).

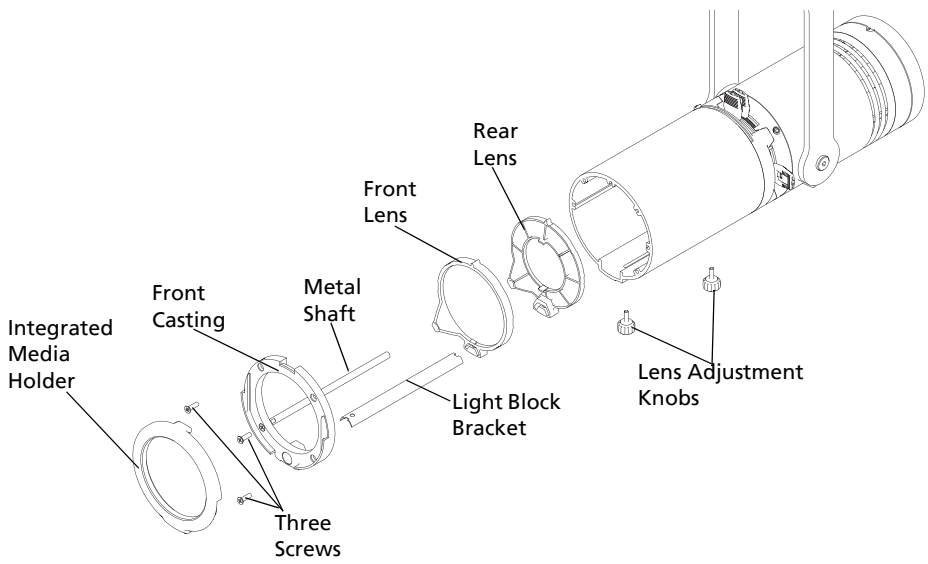
- Step 1: Remove the integrated media holder.
  - Step 2: Use a Phillips screwdriver to remove the three screws from the front of the fixture.
  - Step 3: Remove the front casting and the metal shaft.
  - Step 4: Remove the light block bracket.
  - Step 5: Remove the lens adjustment knobs.
  - Step 6: Remove the front and rear lens holders.
  - Step 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.
  - Step 8: Replace the lens.
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**Note:** *You may find it easier to insert the metal shaft into its pocket of each lens before replacing the lens.*

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









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