

## **SWP44 Super Wide Angle Port**

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**Fathom 'Signature' 120° FOV with Full Zoom Capability**

***"HD brings into sharp relief the need for precision optics. Anything less is a useless endeavor." – Howard Hall***

The SWP44 Super Wide Port is the most distinguished member of the Gates line of premium underwater optics. Another 'no compromises' lens, it enables the clearest, sharpest, distortion-free underwater imaging possible – a necessary requisite for any High Definition venture.

**Performance** – with an astounding 120° field of view this port will provide complete scrutiny of a Humpback from mere feet away. Yet the SWP44 includes *full zoom through capability* for crystal clear tight shots as well as macro of 4.5" / 115mm critters -- and everything in between. Unlike other optics that require diopters, or work only at zoom extremes, the SWP44 is designed for distortion free images throughout the entire zoom range.

**Fathom 'Signature'** – is a mark of excellence and signifies precision optical design and construction expertise. It guarantees high resolution optics free of distortions, reflections, vignetting or other image destroyers.

**HD Essential** – High Definition images that are sharp and clear from edge to edge can only be achieved with a Fathom port and Gates housing. Close collaboration is essential to achieve an underwater system that delivers maximum resolution HD images.

**No Compromises** – Remember: *The best camera in the world cannot compensate for poor optics.*



**Don't Take a Chance....Take a Gates!**

**Gates Underwater Products, Inc**

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## Key Features

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- **Performance** – 120° wide FOV with full zoom through capability for macro subjects.
- **HD tested and qualified** – for the finest HD images possible.
- **Distortion-free** – for clear, sharp images from corner to corner.
- **Reflection-free** – no image-destroying flare or reflections.
- **Vignette-free** – means no cutoff dark corners to ruin an image.
- **Use in Air and Water** – and for air/water split shots (when compatible).
- **High grade optical glass elements** – for sharp, crystal clear high resolution images.
- **SiO2 AR Coating**– is durable and efficient for max light transmission.
- **Nitrogen purged/vacuum sealed optics** – means no dust or condensation inside.
- **2-year warranty** – consistent with all Gates products.

## Compatibility

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The SWP44 is compatible with the following Gates housings:

- **FX1 / Z1**
- **XL H1**

## Specifications

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### *Specifications for Sony FX1/Z1 Camera*

**\* Angular Field Of View (FOV)**

- \* 120° in air
- \* 120° in water

**\* Minimum Object Distance (MOD)**

- \* *@ Wide Angle*
  - \* 0 mm / 0 in from lens vertex in air and water
- \* *@ Full Optical Zoom*
  - \* 164mm / 6.5in from lens vertex in air
  - \* 470mm / 18.5in from lens vertex in water

**\* Image Size**

- \* 147mm / 5.8in corner to corner at full optical zoom and MOD

**\* Distortion at Corners (full wide)**

- \* Less than 2.6% in air
- \* Less than 2.8% in water

**\* Weight**

- \* Dry: 8.5 lbs / 3.9 kg
- \* In Water: -3.0 lbs / -1.4 kg

**\* Construction**

- \* Shell: 6061-T6 Aluminum, Type III Anodize
- \* Elements: Optical Grade AR Coated Glass

**\* Depth Rating**

- \* 450 feet / 137 meters 8

**\* Warranty**

- \* 2 Years material and workmanship
- \* 200 hr coatings (salt water contact)

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