

Manual for Z'Tilter

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Back Focus & Tilt Adjuster for ZWO's ASI2600 Series

IMPORTANT: Even though you may be tempted to skip reading this documentation, installing and using a tilt adjuster is a delicate process that requires knowledge, patience, and understanding of what you are doing.

Consider this:

- Installing the Z'Tilter incorrectly can damage your camera, void your warranty, and worsen your optics.

[Learn how to install your Z'Tilter properly.](#)

OGMA designed and built the Z'Tilter to help owners of ZWO's ASI2600 cameras. If you have an OGMA camera, you should use the O'Tilter instead.



Introduction

Z'Tilter Back Focus and Tilt Adjuster for ZWO ASI2600 Series

The Z'Tilter by OGMA is a precision accessory designed to fine-tune back focus and correct optical tilt in ZWO ASI2600 series cameras. Unlike other tilt adjusters, the Z'Tilter maintains the original back focus distance of 17.5 mm, ensuring optimal performance without compromising your imaging setup.

Key Features

- **Maintained Back Focus:** Installing the Z'Tilter preserves the camera's original back focus distance of 17.5 mm, eliminating the need for additional adjustments in your imaging train.
- **Rear Access to Adjustment Screws:** The tilt-adjusting screws are accessible from the rear of the camera, providing convenient adjustments without disassembling your setup.
- **Configurable Screw Pairs:** The Z'Tilter can be configured to operate with either three or four pairs of pull-push screws, allowing customization based on user preference.
- **Compatibility:** This adjuster is specifically designed for ZWO ASI2600 series cameras, and it is incompatible with other camera brands or models.

How to install the Z'Tilter

Video

Step-by-step Instructions



Step 1: Unbox the Z'Tilter

- Open the Z'Tilter package and carefully remove the components.
- Set the Z'Tilter and all provided screws on a clean surface.



Step 2: Prepare for Installation

- Use a light-torque electric screwdriver or the provided Allen key.
 - **Note:** Be gentle to avoid damaging the screw threads.
- Remove the four pre-installed pull screws from the Z'Tilter. These screws hold the Z'Tilter ring to the disk.
- Detach the disk from the Z'Tilter ring and set it aside.



Step 3: Remove the Camera's Front Disk

- Remove the three screws securing the front disk of the ZWO ASI2600 camera.
 - If you've already removed one screw, detach the remaining two screws.
- Gently lift the front disk, exposing the protective glass of the sensor chamber.



Step 4: Remove Protective Glass Screws

- **Important:** Hold the top of the camera securely to prevent dust from entering the sensor chamber when the screws are removed.
- Carefully unscrew the six screws securing the protective glass.

- Avoid touching the protective glass or dropping screws onto it to prevent damage.



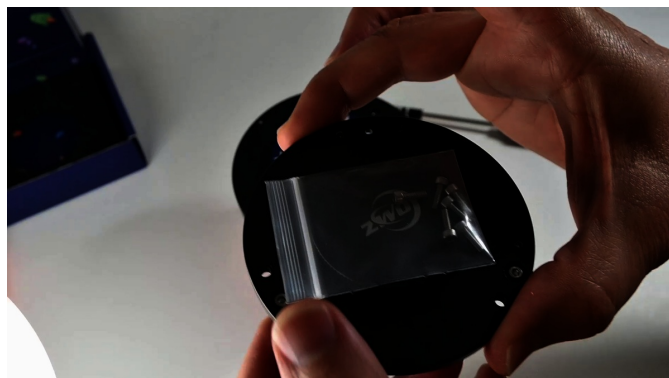
Step 5: Attach the Z'Tilter Ring

- Position the Z'Tilter ring onto the front of the camera.
- Ensure the ring is correctly oriented so the surface fits flush with the camera body.
- Use the six screws provided with the Z'Tilter to secure the ring.
 - Tighten gently to avoid stripping the threads.



Step 6: Attach the Z'Tilter Disk

- Flip the camera to access the rear section.
- Position the Z'Tilter disk onto the back of the camera.
- Use the four screws removed earlier to attach the disk.
 - Optionally, configure the Z'Tilter with three or four sets of screws, depending on preference:
 - **Four screws:** Recommended for software like NINA to measure tilt on all four corners of the sensor.
 - **Three screws:** Preferred for defining a stable plane with minimal adjustments.



Step 7: Save Removed Part

Store the removed screws and the front plate of the camera in a safe place for future use.

- These will be needed if you wish to revert the camera to its original configuration.

Completion

Your Z'Tilter is now installed and ready to use. You can attach additional devices to the front of the camera and adjust tilt using the screws on the back.

Thank you for choosing OGMA!