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Sony SEL20TC

Sony FE 2.0x Teleconverter (SEL20TC) Instruction Manual

INTRODUCTION

This manual provides essential information and instructions for the safe and effective use of your Sony FE 2.0x Teleconverter (model SEL20TC). Please read this manual thoroughly before using the product and retain it for future reference.

PRODUCT OVERVIEW

The Sony FE 2.0x Teleconverter is designed to extend the focal length of compatible Sony E-mount lenses by a factor of 2.0x. It allows photographers to achieve greater reach for subjects such as wildlife or sports, while maintaining the optical quality and operability of the attached lens. The teleconverter features a robust dust and moisture resistant design, ensuring reliable performance in various outdoor conditions.

Key Features:

- 2.0x focal length multiplication.
- Maintains full G Master lens performance.
- Compatible with specific Sony E-mount lenses (e.g., SEL70200GM, SEL100400GM, SEL400F28GM).
- Features an aspherical lens element for impressive optical performance.
- Dust and moisture resistant construction for enhanced durability.
- Composed of 8 elements in 5 groups.



Figure 1: Front view of the Sony FE 2.0x Teleconverter (SEL20TC).



Figure 2: Side view of the Sony FE 2.0x Teleconverter, highlighting the E-mount connection.

SETUP AND INSTALLATION

The Sony FE 2.0x Teleconverter is designed for easy attachment between a compatible Sony E-mount lens and a Sony E-mount camera body.

Compatibility:

This teleconverter is currently compatible with Sony G Master lenses such as the SEL70200GM, SEL100400GM, and SEL400F28GM. Always verify lens compatibility before attachment to prevent damage.

Attachment Procedure:

1. Ensure both your camera and lens are powered off.
2. Remove the rear lens cap from your compatible lens and the body cap from your camera.
3. Attach the teleconverter to the camera body by aligning the mounting index marks on both components. Rotate the teleconverter clockwise until it clicks into place.
4. Attach the lens to the teleconverter by aligning the mounting index marks on both components. Rotate the lens clockwise until it clicks into place.
5. To detach, press the lens release button on the camera body (or teleconverter) and rotate the component counter-clockwise.

Caution: Avoid touching the lens elements or the camera's image sensor during attachment or detachment to prevent dust or damage.

OPERATING INSTRUCTIONS

When the 2.0x teleconverter is attached, the focal length of your lens is doubled. For example, a 100-400mm lens becomes a 200-800mm lens. This extension comes with certain optical considerations.

Impact on Aperture:

The 2.0x teleconverter results in a 2-stop loss of light. This means the maximum aperture of your lens will decrease by two stops. For instance, if your lens has a maximum aperture of f/4, with the 2.0x teleconverter, the effective maximum aperture will become f/8. This is a physical characteristic of teleconverters and should be considered when shooting in low-light conditions.

Autofocus Performance:

While the teleconverter is designed to maintain the autofocus performance of compatible lenses, a slight reduction in AF speed or accuracy may be observed, particularly in challenging lighting conditions or with fast-moving subjects. For optimal performance, ensure sufficient light and consider using appropriate AF modes for your subject.

Image Quality:

The teleconverter is engineered to deliver impressive optical performance. However, the addition of extra glass elements can lead to a minor decrease in overall image sharpness and clarity compared to using the prime lens alone. This effect is generally minimal with high-quality teleconverters like the SEL20TC, but it is a factor to consider for critical applications.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your teleconverter.

- **Cleaning:** Use a soft, lint-free cloth to clean the exterior of the teleconverter. For lens elements, use a lens brush to remove dust, followed by a lens cleaning solution and a microfiber cloth. Avoid harsh chemicals.
- **Storage:** When not in use, attach the front and rear caps to the teleconverter. Store it in a dry, cool place away from direct sunlight and extreme temperatures.
- **Dust and Moisture Resistance:** The teleconverter features a dust and moisture resistant design. While this provides enhanced protection, it does not make the unit waterproof. Avoid exposing it to heavy rain or direct water spray.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Reduced autofocus speed/accuracy	Lower effective aperture, low light conditions, fast-moving subjects.	Ensure adequate lighting. Use appropriate AF modes for the subject. Update camera and lens firmware.
Darker images / need higher ISO	2-stop light loss due to teleconverter.	Compensate by increasing ISO or using slower shutter speeds (with tripod). Shoot in brighter conditions.
Slightly softer images	Inherent optical characteristic of adding a teleconverter.	Ensure proper focus. Use a tripod for stability. Post-process for sharpening if necessary.
Teleconverter does not attach to lens/camera	Incompatible lens/camera, incorrect alignment.	Verify compatibility with your specific lens and camera model. Ensure correct alignment of mounting index marks.

SPECIFICATIONS

- **Model Number:** SEL20TC
- **Brand:** Sony
- **Lens Type:** Teleconverter
- **Focal Length Multiplication:** 2.0x
- **Lens Elements/Groups:** 8 elements in 5 groups
- **Compatible Mountings:** Sony FE (E-mount)
- **Product Dimensions:** 4.09 x 3.43 x 4.69 inches
- **Item Weight:** 14.1 ounces
- **Date First Available:** July 11, 2016

WHAT'S IN THE BOX

Upon opening your Sony FE 2.0x Teleconverter package, you should find the following items:

- Sony FE 2.0x Teleconverter (SEL20TC)
- Lens front cap
- Lens rear cap (ALC-R1EM)
- Soft carrying case
- Warranty documentation

WARRANTY AND SUPPORT

This product is covered by a manufacturer's warranty. Please refer to the included warranty documentation for details regarding coverage, terms, and conditions. For technical support, service, or further inquiries, please contact Sony customer service or visit the official Sony support website.

