

## Kenko MC4-AF2.0DGX-C

# Kenko 2X Teleplus DG Auto Focus Teleconverter (MC4-AF2.0DGX-C) Instruction Manual

## 1. INTRODUCTION

A teleconverter is an optical accessory designed to increase the focal length of a primary lens. It is mounted between the camera body and the lens. The Kenko 2X Teleplus DG Auto Focus Teleconverter, model MC4-AF2.0DGX-C, effectively doubles the focal length of your attached lens, allowing for closer magnification of distant subjects. This model features a computer-designed 4-element optical system for enhanced performance.

## 2. PRODUCT OVERVIEW

The Kenko 2X Teleplus Teleconverter is a compact unit equipped with optical elements and electronic contacts on both sides. These contacts facilitate communication between the camera body and the attached lens, ensuring that auto-exposure and auto-focus functions are maintained where supported by the camera and lens combination.



**Figure 1:** Kenko 2X Teleplus Teleconverter shown alongside a camera body and a lens, illustrating the components involved in the setup.

### 3. SETUP AND INSTALLATION

Follow these steps to correctly attach the Kenko 2X Teleplus Teleconverter to your camera and lens:

1. **Prepare Camera and Lens:** Ensure your camera is powered off. Remove the lens from your camera body and the rear cap from your lens. Remove both caps from the teleconverter.
2. **Attach Teleconverter to Camera:** Align the mounting index on the teleconverter with the corresponding index on your camera body. Gently twist the teleconverter clockwise until it clicks securely into place.
3. **Attach Lens to Teleconverter:** Align the mounting index on your lens with the corresponding index on the teleconverter. Gently twist the lens clockwise until it clicks securely into place.
4. **Verify Connection:** Ensure both the teleconverter and the lens are firmly attached and show no wobble.

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**Video 1:** This video demonstrates the physical attachment of Kenko Teleplus teleconverters to a camera body and lens, explaining how they magnify focal length and the impact on light and autofocus.

## 4. OPERATING INSTRUCTIONS

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When using the Kenko 2X Teleplus Teleconverter, it is important to understand its impact on your camera's performance:

- **Focal Length Magnification:** The 2X teleconverter doubles the focal length of your attached lens. For example, a 50mm lens becomes a 100mm lens, and a 300mm lens becomes a 600mm lens.
- **Light Loss:** The use of a 2X teleconverter results in a loss of two stops of light. This means an f/2.8 lens will effectively become an f/5.6 lens, and an f/5.6 lens will become an f/11 lens. Adjust your camera's ISO or shutter speed accordingly to compensate for this light reduction.
- **Autofocus Performance:** Most camera bodies are designed to maintain autofocus up to an effective aperture of f/5.6. If the combined lens and teleconverter result in an effective aperture smaller than f/5.6 (e.g., f/8 or f/11), the camera's autofocus system may struggle or fail to achieve focus. In such situations, switching to manual focus is recommended for precise focusing.
- **Image Quality:** While teleconverters extend focal length, they can sometimes introduce a slight reduction in overall image sharpness or contrast, particularly when used with lenses that are not prime or in challenging lighting conditions. For best results, use a sturdy tripod and ensure optimal lighting.

## 5. MAINTENANCE AND CARE

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Proper care will ensure the longevity and performance of your teleconverter:

- **Cleaning Optics:** Use a soft, lint-free microfiber cloth specifically designed for optical surfaces to gently clean the glass elements. For stubborn smudges, a small amount of lens cleaning fluid applied to the cloth (not directly to the lens) can be used.
- **Cleaning Contacts:** Periodically clean the electronic contacts on both sides of the teleconverter with a clean, dry cotton swab to ensure reliable communication with your camera and lens. Avoid touching the contacts with your fingers.
- **Storage:** Always attach the front and rear caps when the teleconverter is not in use to protect the optical elements and contacts from dust and damage. Store the teleconverter in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the teleconverter to strong impacts, as this can damage the internal optical alignment.

## 6. TROUBLESHOOTING

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If you encounter issues with your Kenko 2X Teleplus Teleconverter, consider the following:

- **Autofocus Not Working:**
  - Check the effective aperture of your lens with the teleconverter. If it is f/8 or smaller, your camera's autofocus system may not function. Switch to manual focus.
  - Ensure the teleconverter and lens are securely mounted and that all electronic contacts are clean and free of debris.
  - Verify that your camera's autofocus mode is correctly set.
- **Soft or Blurry Images:**
  - Ensure proper focus. If using manual focus, confirm critical focus.
  - Check for camera shake, especially with longer effective focal lengths. Use a tripod or increase shutter speed.
  - Verify that the lens and teleconverter optics are clean.
- **Exposure Issues:**

- Remember the two-stop light loss. Adjust ISO or use a wider aperture (if available) to compensate.
- Ensure your camera's metering mode is appropriate for the scene.

## 7. SPECIFICATIONS

Model Number	MC4-AF2.0DGX-C
Focal Length Magnification	2X
Lens Type	Teleconverter, Telephoto
Compatible Mountings	Canon EF
Product Dimensions	1 x 2.4 x 2.4 inches (2.54 x 6.1 x 6.1 cm)
Item Weight	1.6 ounces (45.36 grams)
Manufacturer	THK Photo Products Inc.

## 8. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or service inquiries regarding your Kenko 2X Teleplus DG Auto Focus Teleconverter, please refer to the official documentation included with your purchase. You may also visit the official Kenko website for the most up-to-date support resources and contact information.

