

## 7artisans 24-96mm T2.9 S35

# 7artisans 24-96mm T2.9 S35 Professional Zoom Cine Lens User Manual

Model: 24-96mm T2.9 S35 | Brand: 7artisans

## 1. INTRODUCTION

This manual provides detailed instructions for the proper use and care of your 7artisans 24-96mm T2.9 S35 Professional Zoom Cine Lens. This lens is designed for cinematic applications, offering a 4X optical zoom range, a constant T2.9 aperture, and a parfocal optical design. Please read this manual thoroughly before using the lens to ensure optimal performance and longevity.



Figure 1.1: The 7Artisans 24-96mm T2.9 S35 Professional Zoom Cine Lens, showcasing its robust construction and clear markings.

## 2. PRODUCT FEATURES

- **S35 Frame Compatibility:** Designed for Super 35 format cameras, providing a 4X optical zoom range with focal lengths between 24-96mm.
- **Constant T2.9 Aperture:** Maintains a consistent T2.9 aperture across the entire zoom range (T2.9-T22), facilitating clear imaging in low-light conditions and consistent exposure.
- **240° Focus Throw:** Offers a wide 240-degree focus rotation for precise and delicate focus adjustments, enhancing control during shooting.
- **Parfocal Design:** Ensures that focus remains consistent throughout the zoom range, improving shooting efficiency and maintaining image continuity.
- **Imperceptible Breathing:** Engineered to minimize focus breathing, ensuring image stability and consistency during focus transitions without changes in the frame.

# Professional Zoom Cine Lens

## 24mm-96mm T2.9 S35

4X Zoom | Parfocal Design | Constant Aperture

Imperceptible Breathing



Figure 2.1: The 7artisans 24-96mm T2.9 S35 Professional Zoom Cine Lens mounted on a camera rig, illustrating its professional application.

# T2.9 Constant Large Aperture

The T2.9 large aperture design allows for clean images in low-light environments, enhancing the clarity of the footage.



Figure 2.2: Front view of the lens, highlighting the T2.9 constant large aperture for low-light performance.

## 3. PACKAGE CONTENTS

Verify that all the following items are included in your product package:

- 7artisans 24-96mm T2.9 S35 Professional Zoom Cine Lens
- Lens Rear Cap
- Lens Front Cap
- Filter Adapter
- Screws
- Dry Cabinet (for storage)



Figure 3.1: Overview of the lens and its included accessories.

## 4. SETUP

### 4.1 Mounting the Lens

1. Ensure your camera is powered off before attaching or detaching the lens.
2. Remove the rear lens cap from the 7Artisans 24-96mm T2.9 S35 lens and the body cap from your camera.
3. Align the mounting index on the lens with the corresponding index on your camera body (e.g., red dot to red dot for EF mount).
4. Gently insert the lens into the camera's lens mount and rotate it clockwise until it clicks into place, indicating it is securely locked.

### 4.2 Using the 1.5X Teleconverter (Optional)

The lens can be used with a 1.5X teleconverter to extend the focal length range to 35-140mm. Attach the teleconverter between the lens and the camera body following the manufacturer's instructions for the teleconverter.





Figure 4.1: The lens shown with different camera mounts (E, L, PL, RF, Z Mounts) using an adapter ring.

## 5. OPERATING

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### 5.1 Focus Control

The lens features a manual focus ring with a 240° throw. Rotate the focus ring to achieve precise focus on your subject. The wide throw allows for fine adjustments, crucial for cinematic work.

### 5.2 Zoom Control

Adjust the focal length using the zoom ring, which has a 100° throw. The parfocal design ensures that your focus point remains consistent as you zoom in or out, eliminating the need to refocus after changing focal length.

# Super 35 Frame 4X Optical Zoom

An S35 format T2.9 constant aperture zoom cinema lens with 4x optical zoom, meeting the needs of most scenes.



Figure 5.1: Demonstrating the 4X optical zoom capability of the lens.

## 5.3 Aperture Control

The aperture ring provides manual control over the T-stop, with a 90° throw. The constant T2.9 aperture ensures consistent light transmission across the entire zoom range, simplifying exposure settings.

# 240° Focus Throw For More Delicate Visuals and Clearer Images

The 240° focus throw allows for more precise and delicate focus adjustments, giving photographers a steadier control over the lens, minimizing the impact on the shooting outcome.



Figure 5.2: The lens showing the distinct focus, zoom, and aperture rings with their respective throw angles.

## 5.4 Parfocal Performance

The parfocal optical design is a key feature, allowing you to maintain sharp focus on your subject even when changing the focal length. This is particularly beneficial in dynamic shooting environments where constant refocusing would be disruptive.



# Parfocal Design

## Maintaining Consistent Focus Throughout The Zoom Range.

One of the key optical attributes of a zoom cinema lens is being parfocal. It maintains accurate focus throughout the zoom range, enhancing shooting efficiency and ensuring image continuity and consistency



Figure 5.3: Visual demonstration of the parfocal design, showing consistent focus maintained throughout the zoom range.

## 5.5 Imperceptible Breathing

The lens is designed to exhibit minimal focus breathing. This means that when you adjust focus, the field of view remains stable, preventing distracting changes in composition and allowing cinematographers to concentrate on their subject.

# Imperceptible Breathing

Ensures image stability and consistency during focus transitions, allowing cinematographers to concentrate on their subject without worrying about changes in the frame caused by focus breathing.



Figure 5.4: The lens on a camera rig, illustrating its imperceptible breathing feature.

## 6. MAINTENANCE

### 6.1 Cleaning the Lens

- Use a soft, lint-free cloth or a lens brush to remove dust from the lens surfaces.
- For stubborn smudges or fingerprints, apply a small amount of lens cleaning solution to a clean microfiber cloth and gently wipe the lens in a circular motion.
- Avoid using abrasive materials or harsh chemicals, as these can damage the lens coatings.

### 6.2 Storage

- Always attach the front and rear lens caps when the lens is not in use.
- Store the lens in a cool, dry place, away from direct sunlight and extreme temperatures.
- Utilize the provided dry cabinet to protect the lens from humidity and dust, which can lead to mold growth.

## 7. TROUBLESHOOTING

If you encounter any issues with your lens, consider the following general troubleshooting steps:

- **Lens not mounting securely:** Ensure the lens is correctly aligned with the camera mount and rotated until it clicks. Check for any obstructions on the mount.
- **Unclear images:** Verify that the lens surfaces are clean and free from dust or smudges. Ensure proper focus and aperture settings.
- **Rings are stiff:** If the focus, zoom, or aperture rings feel unusually stiff, avoid forcing them. Contact customer support for assistance.
- **Image quality issues:** Check camera settings, lighting conditions, and ensure the lens is compatible with your camera model.

For persistent issues, please refer to the warranty and support section for contact information.

8. SPECIFICATIONS



Figure 8.1: Detailed specifications and dimensions of the lens.

Feature	Description
Model	Sprite Zoom 24mm-96mm T2.9
Frame	S35

Feature	Description
Focal Length	24-96mm (Equipped with a 1.5X Teleconverter: 35-140mm)
Mount	EF/PL (Compatible with E/Z/RF/L mounts via adapter ring)
Aperture Range	T2.9-T22
Maximum Image Circle	Φ31.5
Angle of View (AOV)	Diagonal: 66°-18°, Vertical: 43°-11.1°, Horizontal: 54.5°-14.3°
Lens Construction	21 elements in 16 groups
Minimum Focus Distance	1m
Zoom Ratio	4X
Aperture Control	Manual (Aperture Ring Throw 90°)
Focusing Control	Manual (Focus Ring Throw 240°)
Zooming Control	Manual (Zoom Ring Throw 100°)
Dimensions	Φ94mm * L225mm (Mount Excluded)
Aperture Blade	13 PCS
Filter Diameter	Φ86mm
Gear Pitch	0.8
Material	Metal
Weight	Around 2.3kg
Rear Focusing Adjustment	±0.5mm

## 9. WARRANTY AND SUPPORT

7artisans products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or service, please refer to the warranty card included with your product or visit the official 7artisans website. Keep your purchase receipt as proof of purchase for warranty claims.