

[Manuals.plus](#) /

> [Nikon](#) /

> Nikon FM-10 SLR Camera with 35-70mm f/3.5-4.8 Zoom Lens Instruction Manual

**Nikon 1689**

# Nikon FM-10 SLR Camera Instruction Manual

Model: FM-10 (1689) with 35-70mm f/3.5-4.8 Zoom Lens

## INTRODUCTION

This manual provides essential instructions for the proper setup, operation, and maintenance of your Nikon FM-10 Single-Lens Reflex (SLR) camera. The FM-10 is a mechanically controlled manual focus camera designed for use with 35mm film, offering full manual exposure control. It is operable without batteries, which are primarily used to power the light metering system.

Please read this manual thoroughly before using your camera to ensure optimal performance and longevity.

## SETUP

### 1. Battery Installation



The Nikon FM-10 camera requires two LR44 (or A76/S76) 1.5-volt alkaline batteries for its light metering system. The camera functions mechanically without batteries, but the light meter will not operate. The battery compartment is typically located on the bottom of the camera body.

1. Locate the battery compartment cover on the bottom of the camera.
2. Use a coin or similar tool to unscrew the cover counter-clockwise.
3. Insert two LR44 batteries with the positive (+) side facing upwards, following the polarity indicators inside the compartment.
4. Replace the battery compartment cover and tighten it clockwise until secure.

*Description of image:* A rear view of the Nikon FM-10 camera, highlighting the base where the battery compartment is located. The camera body is black with a silver top plate.

## 2. Lens Attachment



The camera comes with a Nikon 35-70mm f/3.5-4.8 zoom lens. To attach the lens:

1. Remove the body cap from the camera and the rear cap from the lens.
2. Align the mounting index dot on the lens barrel with the corresponding dot on the camera's lens mount.
3. Insert the lens into the camera mount and rotate it clockwise until it clicks into place.
4. To remove the lens, press the lens release button on the camera body and rotate the lens counter-clockwise.

*Description of image:* The Nikon FM-10 camera body is shown with its lens mount exposed, next to a detached 35-70mm zoom lens. This illustrates the components involved in lens attachment.

## OPERATING INSTRUCTIONS

### 1. Loading Film

The Nikon FM-10 uses standard 35mm film. Ensure you are in a shaded area or indoors when loading film to prevent light exposure.

1. Open the camera back by pulling up the film rewind knob.
2. Place a new film cassette into the film chamber on the left side.
3. Pull the film leader across to the take-up spool on the right and insert the tip into one of the slots.
4. Advance the film slightly using the film advance lever to ensure it catches on the take-up spool.
5. Close the camera back firmly.
6. Advance the film two frames, pressing the shutter release button after each advance, until the frame counter shows "1". This ensures any light-exposed film leader is wound onto the take-up spool.

### 2. Setting Film Speed (ISO)



The film speed (ISO/ASA) must be set manually on the camera to match the film loaded. This setting informs the light meter for accurate exposure readings.

1. Lift and rotate the outer ring of the shutter speed dial to align the ISO value of your film with the index mark.
2. The FM-10 supports ISO settings from 25 to 3200.

*Description of image:* A top-down view of the Nikon FM-10 camera, clearly showing the shutter speed dial and the integrated ISO setting ring. This illustrates where to adjust the film speed.

### 3. Exposure Control

The FM-10 features a manual exposure system with a center-weighted silicon photodiode light meter. The meter provides guidance through a three-LED system in the viewfinder.

- **+ LED:** Indicates overexposure. Increase shutter speed or decrease aperture.
- **- LED:** Indicates underexposure. Decrease shutter speed or increase aperture.
- **o LED:** Indicates correct exposure.

To achieve correct exposure, adjust the shutter speed dial and the lens aperture ring until the 'o' LED illuminates in the viewfinder.

### 4. Focusing

The FM-10 is a manual focus camera. It features a focusing screen with a 3mm split-image rangefinder and a 1mm microprism collar to assist with precise focusing.

1. Look through the viewfinder.
2. Rotate the focusing ring on the lens until the image in the split-image rangefinder appears as a single, unbroken image.
3. Simultaneously, the image in the microprism collar should snap into sharp focus, free of shimmering or broken patterns.



*Description of image:* A front-side view of the Nikon FM-10 camera with the 35-70mm zoom lens attached. This

shows the camera in its ready-to-use configuration, illustrating the lens and body together.

## 5. Shutter Speed and Aperture

- **Shutter Speed:** Controlled by the dial on the top of the camera. Available speeds range from 1/2000 second to 1 second, plus 'B' (Bulb) for longer exposures.
- **Aperture:** Controlled by the ring on the lens barrel. The included 35-70mm lens has an aperture range of f/3.5 to f/4.8 (at 35mm and 70mm respectively).

Adjusting these settings in combination with the light meter readings allows for creative control over depth of field and motion blur.

## MAINTENANCE

- **Cleaning:** Use a soft, lint-free cloth to clean the camera body. For the lens, use a specialized lens cleaning solution and cloth. Avoid touching the lens elements directly.
- **Storage:** Store the camera in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries to prevent leakage.
- **Film Handling:** Always handle film in subdued light. Avoid exposing film to X-rays at airports; request a hand inspection.

## TROUBLESHOOTING

- **Light Meter Not Working:** Check if batteries are correctly installed and have sufficient charge. The camera will still function mechanically without batteries.
- **Film Advance Lever Stuck:** Ensure the shutter has been released. If film is loaded, check for proper film seating on the take-up spool.
- **Images are Blurry:** Verify that the lens is properly focused and that the shutter speed is fast enough to prevent camera shake, especially in low light.
- **Exposure Issues (Too Dark/Too Bright):** Recheck ISO setting, and ensure shutter speed and aperture are adjusted according to the light meter's indication.

## SPECIFICATIONS

Feature	Detail
Brand	Nikon
Model Name	FM-10 (1689)
Compatible Mountings	Nikon F-mount (manual focus)
Photo Sensor Technology	CCD (for metering)
Image Stabilization	No
Lens Type	Zoom (35-70mm f/3.5-4.8)
Minimum Focal Length	35 Millimeters
Maximum Focal Length	70 Millimeters

<b>Minimum Aperture</b>	f/4.8
<b>Maximum Aperture</b>	f/3.5
<b>Optical Zoom</b>	2x
<b>Expanded ISO Range</b>	100 - 25600 (for metering)
<b>Metering Description</b>	Center Weighted
<b>Exposure Control</b>	Manual
<b>Auto Focus Technology</b>	Manual Focus Only
<b>Maximum Shutter Speed</b>	1/2000 seconds
<b>Minimum Shutter Speed</b>	1 second (plus Bulb)
<b>Viewfinder</b>	Optical
<b>Special Feature</b>	Manual Focusing Aids (Split-image, Microprism)
<b>Battery Type</b>	Two 1.5-Volt LR44 alkaline batteries (for meter)
<b>Shutter Type</b>	Focal Plane Shutter

## WARRANTY AND SUPPORT

This Nikon FM-10 camera, being a renewed product, typically comes with a limited warranty. Please refer to your purchase documentation for specific warranty terms and duration.

- **Warranty Duration:** 90 days limited warranty.
- For technical support or warranty claims, please contact the seller or the Amazon Renewed program directly.