

Nikon P310

Nikon COOLPIX P310 Digital Camera User Manual

Model: COOLPIX P310

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Nikon COOLPIX P310 digital camera. Please read this manual thoroughly before using the camera and keep it accessible for future reference. The Nikon COOLPIX P310 is a compact digital camera featuring a 16.1-megapixel CMOS sensor, a 4.2x optical zoom NIKKOR glass lens, and Full HD 1080p video recording capabilities.

2. PRODUCT OVERVIEW

2.1 Key Features

- 16.1 Megapixel CMOS sensor for high-resolution images.
- 4.2x Zoom-NIKKOR glass lens with f/1.8 maximum aperture for excellent low-light performance.
- 3-inch Ultra-high-resolution (921,000 Dot) LCD for clear viewing.
- Full HD (1080p) Movies with Stereo Sound for high-quality video capture.
- Optical Image Stabilization for sharper photos and smoother videos.

2.2 What's in the Box

Upon opening your Nikon COOLPIX P310 package, you should find the following items:

- Nikon COOLPIX P310 Digital Camera
- Rechargeable Li-ion Battery
- Charging AC Adapter
- USB Cable
- Strap
- Instruction Manual (this document)

2.3 Camera Views



Figure 3: Back view of the Nikon COOLPIX P310, displaying the LCD screen, control pad, and video record button.

2.4 Product Video



This video provides a sample of the video recording capabilities of the Nikon COOLPIX P310 camera, demonstrating its Full HD 1080p output.

3. SETUP

3.1 Charging the Battery

1. Insert the supplied rechargeable Li-ion battery into the camera.
2. Connect the camera to the charging AC adapter using the USB cable.
3. Plug the AC adapter into a power outlet. The charging indicator light will illuminate.
4. Charging is complete when the indicator light turns off.

3.2 Inserting a Memory Card

The Nikon COOLPIX P310 supports SD, SDHC, and SDXC memory cards.

1. Open the battery/card cover on the bottom of the camera.
2. Insert the memory card into the card slot with the contacts facing the correct direction, until it clicks into place.
3. Close the battery/card cover securely.

3.3 Initial Power On and Settings

1. Press the **ON/OFF** button to turn on the camera.
2. Follow the on-screen prompts to set the date, time, and language.

4. OPERATING THE CAMERA

4.1 Basic Controls

- **Shutter-release button:** Press halfway to focus, fully to take a picture.

- **Zoom control:** Use the T/W lever around the shutter button to zoom in (T) or out (W).
- **Mode dial:** Select shooting modes such as Auto, Programmed auto (P), Shutter-priority auto (S), Aperture-priority auto (A), Manual (M), and Scene modes.
- **Video record button:** Press to start/stop video recording.
- **Multi selector (control pad):** Navigate menus and adjust settings. The 'OK' button confirms selections.
- **Menu button:** Access the camera's main menu for detailed settings.

4.2 Shooting Modes

The COOLPIX P310 offers various shooting modes to suit different situations:

- **Auto Mode:** Camera automatically optimizes settings for the scene.
- **P, S, A, M Modes:** Provide manual control over exposure settings (Programmed auto, Shutter-priority auto, Aperture-priority auto, Manual).
- **Scene Modes:** Optimized settings for specific scenes like Portrait, Landscape, Night Portrait, Beach, Snow, Sunset, Dusk/Dawn, Fireworks Show, Close Up, Food, Museum, Party/Indoor, Copy, Backlighting, Easy Panorama, 3D Photography, Scene Auto Selector.

4.3 Focusing

The camera features various autofocus technologies:

- **Auto Focus Technology:** Center, Contrast Detection, Face Detection, Multi-area, Tracking.
- **Focus Type:** Manual Focus is also available for precise control.
- **Focus Mode:** Automatic AF (AF-A) is the default setting.

4.4 Using the Flash

The built-in flash offers several modes:

- **Flash Modes:** Automatic, Fill Flash, Flash exposure compensation, High Speed Sync, Low-Power Mode, Rear-curtain sync, Red Eye Reduction, Slow Sync, Suppressed Flash.
- Select the appropriate flash mode via the menu or dedicated button for your shooting conditions.

5. MAINTENANCE

5.1 Cleaning the Camera

- Use a soft, lint-free cloth to clean the camera body.
- For the lens, use a lens brush or a blower to remove dust, then gently wipe with a lens cleaning cloth.
- Clean the LCD screen with a soft, dry cloth. Avoid using alcohol-based cleaners.

5.2 Battery Care

- Store batteries in a cool, dry place when not in use.
- Avoid fully discharging the battery frequently to prolong its lifespan.
- Remove the battery from the camera if it will not be used for an extended period.

5.3 Storage

When storing the camera for long periods, ensure it is clean, dry, and the battery is removed. Store it in a protective case to prevent dust and scratches.

6. TROUBLESHOOTING

If you encounter issues with your Nikon COOLPIX P310, refer to the following common solutions:

- **Camera does not turn on:** Ensure the battery is fully charged and correctly inserted.
- **Cannot take pictures:** Check if the memory card has sufficient space or if it's locked. Ensure the lens cap is removed.
- **Images are blurry:** Verify that the camera is in focus. Clean the lens if necessary. Ensure sufficient lighting or adjust ISO settings.
- **Flash does not fire:** Check flash mode settings. Some modes suppress the flash.
- **LCD screen is blank:** Press the display button (if available) to cycle through display options. Ensure the camera is powered on.

For more complex issues, consult the official Nikon support website or contact customer service.

7. SPECIFICATIONS

Feature	Specification
Model Name	Nikon COOLPIX P310
Photo Sensor Resolution	16.1 MP
Photo Sensor Technology	BSI CMOS
Optical Zoom	4.2x
Maximum Aperture	f/1.8
Maximum Focal Length	100 Millimeters
Minimum Focal Length	24 Millimeters
Image Stabilization	Optical
Video Resolution	FHD 1080p
Screen Size	3 Inches
Display Resolution Maximum	921,000 Dots
Flash Memory Type	SD/SDHC/SDXC
Connectivity Technology	HDMI, USB
Item Weight	0.43 Pounds
Color	Black

8. WARRANTY AND SUPPORT

Your Nikon COOLPIX P310 camera is covered by Nikon's standard warranty. Please refer to the warranty card included with your product for specific terms and conditions. For technical support, service, or further inquiries, please visit the official Nikon website or contact Nikon customer service in your region.

Keep your proof of purchase for warranty claims.