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› Nikon COOLPIX P510 Digital Camera User Manual

## Nikon P510

# Nikon COOLPIX P510 Digital Camera User Manual

Model: P510

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Nikon COOLPIX P510 digital camera. The COOLPIX P510 is a 16.1-megapixel CMOS digital camera featuring a 42x optical zoom NIKKOR ED glass lens, Full HD (1080p) video recording with stereo sound, and built-in GPS for geotagging. Please read this manual thoroughly before using the camera and keep it accessible for future reference.

## 2. SAFETY PRECAUTIONS

- Do not disassemble or modify the camera. Unauthorized repairs can lead to electric shock or injury.
- Keep the camera dry. Exposure to water or high humidity can damage internal components.
- Use only Nikon-approved batteries and chargers. Incorrect power sources can cause fire or explosion.
- Avoid exposing the camera to extreme temperatures or direct sunlight for extended periods.
- Keep out of reach of children. Small parts can be a choking hazard.

## 3. PACKAGE CONTENTS

Verify that all items are present in your camera package:

- Nikon COOLPIX P510 Digital Camera (Black)
- EN-EL5 Lithium-Ion Battery
- Replacement EH-69P AC Adapter Charger
- AN-CP21 Strap
- UC-E6 USB Cable
- EG-CP16 Nikon Audio/Video Cable
- LC-CP24 Lens Cap
- NikonView NX 2 Software (may be a download link or disc)

## 4. CAMERA OVERVIEW

Familiarize yourself with the physical components and controls of your Nikon COOLPIX P510.



Figure 4.1: Front view of the Nikon COOLPIX P510 digital camera, highlighting the prominent lens and Nikon branding.



Figure 4.2: Angled front-top view of the camera, illustrating the ergonomic grip and the 42x optical zoom lens.



Figure 4.3: Top view of the camera, detailing the mode dial, power button, shutter release, and integrated GPS unit.



Figure 4.4: Rear view with the vari-angle LCD monitor extended, demonstrating its flexibility for various shooting angles.



Figure 4.5: Rear view with the LCD monitor closed, showing the electronic viewfinder and the arrangement of control buttons.

## 5. SETUP

### 5.1. Battery Installation and Charging

1. Open the battery chamber cover on the bottom of the camera.
2. Insert the EN-EL5 battery with the contacts facing the correct direction, as indicated inside the chamber.
3. Close the battery chamber cover securely.
4. Connect the EH-69P AC adapter charger to the camera and a power outlet to charge the battery. The charging indicator will illuminate.

### 5.2. Memory Card Installation

1. Open the memory card slot cover, usually located near the battery chamber.
2. Insert an SD, SDHC, or SDXC memory card into the slot with the label facing the correct direction until it clicks into place.
3. Close the memory card slot cover.

### 5.3. Initial Settings

Upon first power-on or after a battery change, you may be prompted to set the date, time, and language. Follow the on-screen instructions using the multi-selector and OK button to configure these settings.

## 6. BASIC OPERATION

## 6.1. Power On/Off

Press the **ON/OFF** button located on the top of the camera to turn the camera on or off.

## 6.2. Taking Still Photos

1. Turn the mode dial to the desired shooting mode (e.g., **AUTO** for automatic settings).
2. Frame your shot using the LCD monitor or electronic viewfinder.
3. Press the shutter-release button halfway down to focus. The focus area will illuminate.
4. Press the shutter-release button all the way down to take the picture.

## 6.3. Using the Zoom

Use the zoom lever located around the shutter-release button to adjust the focal length. Push it towards **T** (telephoto) to zoom in, and towards **W** (wide-angle) to zoom out. The side zoom control also provides easy access to zoom capabilities.

## 6.4. Playback Mode

Press the **Playback** button (usually marked with a triangle icon) to view your captured images and videos. Use the multi-selector to navigate through your files.

# 7. ADVANCED FEATURES

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## 7.1. Shooting Modes

The mode dial allows selection of various shooting modes:

- **Auto Mode:** Camera automatically optimizes settings for most situations.
- **Scene Modes:** Select from 20 pre-programmed scene modes (e.g., Portrait, Landscape, Night Portrait, Sunset, Beach, Food, Museum, Fireworks Show, Snow) for specific shooting conditions.
- **Program Auto (P):** Camera sets exposure, but you can adjust other settings.
- **Shutter-Priority Auto (S):** You set the shutter speed, camera sets aperture.
- **Aperture-Priority Auto (A):** You set the aperture, camera sets shutter speed.
- **Manual (M):** You control both shutter speed and aperture.
- **Effects:** Apply special effects like High Contrast Monochrome or Nostalgic Sepia.

## 7.2. Recording Videos

Press the dedicated **Movie Record** button to start and stop Full HD (1080p) video recording with stereo sound. Continuous autofocus is available during video capture. You can also apply special effects or shoot in slow- or fast-motion.

## 7.3. GPS Functionality

Activate the built-in GPS feature to automatically record location information (latitude and longitude) with your photos and videos. This data can be used to create visual travelogues and integrate with mapping services or Nikon's my Picturetown® photo sharing site.

## 7.4. Optical Vibration Reduction (VR)

The camera features an optical Vibration Reduction system that minimizes camera shake, helping to produce sharper images and smoother videos, especially when using the powerful zoom or shooting in low light.

## 7.5. High-Speed Continuous Shooting

The COOLPIX P510 supports high-speed continuous shooting, capturing up to 5 frames per second (fps) for approximately one second, allowing you to capture fast-moving subjects or sequences of action.

### 7.6. Easy Panorama

Utilize the Easy Panorama mode to automatically stitch multiple shots into a seamless 180° or 360° panoramic image, ideal for capturing wide landscapes.

## 8. CONNECTIVITY

### 8.1. Connecting to a Computer

Use the supplied UC-E6 USB cable to connect your camera to a computer for transferring photos and videos. The camera will appear as a removable drive, or you can use NikonView NX 2 software for more advanced management.

### 8.2. Connecting to a TV

Connect the camera to an HDTV using an HDMI cable (not included) via the camera's HDMI port to view your photos and videos on a larger screen.

## 9. MAINTENANCE

- **Cleaning:** Use a soft, lint-free cloth to clean the camera body. For the lens, use a lens brush or blower to remove dust, then gently wipe with a lens cleaning cloth.
- **Battery Care:** Store batteries in a cool, dry place when not in use. Avoid fully discharging the battery frequently.
- **Storage:** When storing the camera for extended periods, remove the battery and memory card. Store in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.

## 10. TROUBLESHOOTING

If you encounter issues with your camera, refer to the following common problems and solutions:

- **Camera does not turn on:** Ensure the battery is charged and correctly inserted. Try charging the battery for a few hours.
- **Images are blurry:** Check if the lens is clean. Ensure the camera is focusing correctly (press shutter halfway). Use Optical VR for stability, especially with zoom.
- **Battery drains quickly:** Reduce LCD brightness, turn off GPS when not needed, limit video recording, and consider carrying a spare battery.
- **Memory card error:** Ensure the card is inserted correctly. Try reformatting the card (this will erase all data). Use a different, compatible memory card.
- **Flash does not fire:** Check flash settings; it might be set to off or red-eye reduction. Ensure the subject is within flash range.

## 11. TECHNICAL SPECIFICATIONS

| Feature                    | Specification      |
|----------------------------|--------------------|
| Model Name                 | Nikon COOLPIX P510 |
| Effective Still Resolution | 16.1 MP            |

|                         |                                             |
|-------------------------|---------------------------------------------|
| Photo Sensor Technology | CMOS                                        |
| Optical Zoom            | 42x                                         |
| Lens                    | NIKKOR ED Glass Lens (24-1000mm equivalent) |
| Image Stabilization     | Optical (VR)                                |
| Video Resolution        | Full HD 1080p                               |
| Screen Size             | 3 Inches (921,000 Dot)                      |
| Display Type            | LCD (Tilting)                               |
| Built-in GPS            | Yes                                         |
| Memory Storage          | SD/SDHC/SDXC card slot                      |
| Connectivity            | HDMI, USB                                   |
| Battery Type            | Lithium Ion (EN-EL5)                        |
| Approx. Battery Life    | 200 Photos                                  |
| Item Weight             | 1.22 Pounds                                 |

## 12. WARRANTY AND SUPPORT

This product is sold "As-Is" with no explicit warranty provided by the seller. For product support, additional resources, or to explore other Nikon products, please visit the official Nikon Store on Amazon: [Nikon Store](#).

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