

Casio EX-ZR10

Casio EXILIM EX-ZR10 Digital Camera User Manual

Model: EX-ZR10

1. INTRODUCTION

The Casio EXILIM EX-ZR10 is a high-speed compact digital camera designed for capturing high-quality photos and Full HD videos. Featuring the EXILIM Engine HS, this camera offers fast shooting speeds and advanced image processing capabilities, including HDR technology for stunning contrast. Its 28mm wide-angle lens with 7x optical zoom allows for versatile shooting, from expansive landscapes to distant subjects. The camera also boasts a 12.1-megapixel high-sensitivity CMOS sensor for clear images even in low light, and various high-speed functions like continuous shooting up to 30 frames per second and high-speed movies.

Key features include:

- High-speed continuous shooting up to 30 frames per second.
- 12.1 Megapixel high-sensitivity CMOS sensor.
- 7x optical zoom with mechanical image stabilization (Super Zoom equivalent to 14x with Super Resolution).
- 7.6 cm (3 inch) TFT color display (Super Clear LCD) with 460,800 pixels.
- Full HD video recording (1080p).



Figure 1: Front view of the Casio EXILIM EX-ZR10 digital camera, showing the lens, flash, and 'EXILIM' branding.

2. SETUP

2.1 Unpacking and Initial Check

Carefully unpack all components from the box. Ensure the following items are present:

- Casio EXILIM EX-ZR10 digital camera (black)
- Rechargeable Lithium-ion battery (NP-110)
- Battery charger (BC-110L)
- AC connection cable
- USB and AV cable
- Wrist strap
- Basic reference guide
- CD-ROM

2.2 Charging the Battery

1. Insert the NP-110 battery into the BC-110L charger.
2. Connect the AC connection cable to the charger and plug it into a power outlet.
3. The charging indicator light on the charger will illuminate. Once charging is complete, the light will change or turn off (refer to charger instructions for specific behavior).
4. Disconnect the charger from the power outlet and remove the fully charged battery.

2.3 Inserting Battery and Memory Card

1. Open the battery/memory card compartment cover on the camera.
2. Insert the charged NP-110 battery into the battery slot, ensuring correct orientation.

3. Insert a compatible SD, SDHC, or SDXC memory card into the memory card slot until it clicks into place.
4. Close the compartment cover securely.

2.4 Attaching the Wrist Strap

Thread the wrist strap through the strap eyelet on the camera body to prevent accidental drops.

3. OPERATING THE CAMERA

3.1 Basic Controls and Display



Figure 2: Rear view of the Casio EXILIM EX-ZR10, highlighting the LCD screen, record button, shutter button, and navigation controls.

The camera features a 7.6 cm (3 inch) TFT color display for framing shots and reviewing images. Key controls on the rear panel include the record button, shutter button, display button, set button, and menu button, along with a directional pad for navigation.



Figure 3: The camera's display showing a captured image, demonstrating the screen's clarity and color reproduction.

3.2 Photo Functions

- **EXILIM Engine HS:** This advanced image processor enables high-speed shooting and rapid image processing. It automatically analyzes environmental elements and adjusts camera settings for optimal results in various conditions, including backlight, portraits, landscapes, and low light.
- **12.1 Megapixel High-Sensitivity CMOS Sensor:** Captures high-resolution images with reduced noise and vibrant colors, even in challenging lighting conditions. Ideal for detailed editing and printing.
- **7x Optical Zoom with Mechanical Image Stabilizer:** Allows you to magnify distant subjects. The mechanical image stabilizer reduces blur caused by camera shake, ensuring sharper images. This zoom is also active during video recording.
- **28mm Wide-Angle Lens:** Provides a broader field of view, perfect for capturing expansive landscapes or fitting more people into group photos from a short distance.
- **HDR (High Dynamic Range) and HDR Art:** HDR combines multiple shots taken at different exposures into a single image, enhancing contrast and detail in both bright and dark areas. HDR Art applies artistic effects to these combined images, creating unique visual styles.
- **High-Speed Continuous Shooting:** Capture up to 30 high-resolution photos per second (up to 10 megapixels each). A pre-record function allows the camera to save up to 25 photos in a buffer before the shutter button is fully pressed, ensuring you don't miss critical moments.
- **Premium Auto Mode:** Automatically detects typical subject situations (e.g., portraits, landscapes, night scenes) and adjusts camera settings for optimal results. This mode activates appropriate scene programs, such as night mode without a tripod, makeup mode, or intelligent AF.
- **BEST SHOT Scene Programs:** Offers 23 flexible preset settings for various shooting scenarios. You can also create and save your own custom settings. Specific high-speed BEST SHOT modes are available for capturing fast-moving subjects like children or athletes.
- **High-Speed Anti-Shake:** Utilizes continuous high-speed acquisition to combine multiple consecutive shots into a single, optimized, sharper image, reducing blur from camera movement.
- **Lag Correction:** Minimizes the delay between subject recognition and actual shutter release by buffering continuous frames before the shot, allowing you to select the best image.

- **High-Speed Night Recording:** The BEST SHOT high-speed night scene program uses continuous high-speed acquisition to improve photos in dark or low-light conditions, reducing blur even without a tripod.
- **Face Detection:** Automatically detects faces in a scene and optimizes focus and exposure for clear portraits of individuals or groups.
- **Lighting Function:** Detects and corrects difficult lighting conditions, automatically optimizing face brightness and reproducing rich gradations in backgrounds like skies or buildings.
- **High-Speed Selection:** For continuous shooting, the camera can automatically select the best photo from a sequence, prioritizing images with smiling faces, open eyes, and no blur.
- **Flash Functions:** Includes Red Eye-Reduction, Auto flash (fires when needed), and On/Off settings for various lighting requirements.
- **Advanced Auto Tracking AF:** Tracks moving subjects, maintaining focus even when subjects are in motion. Half-press the shutter button to lock focus, then fully press to capture the shot.
- **Panorama Function:** Captures extremely wide panoramic images up to 360 degrees by simply rotating the camera. It detects moving objects and faces, adjusting images to minimize distortion and blur.
- **Multi Frame SR Zoom:** Extends the 7x optical zoom to an effective 14x zoom with near-optical quality by combining multiple shots into a single sharp image.

3.3 Video Functions

- **Full HD Video and Mini HDMI Port:** Records Full HD (1920 x 1080 pixels) videos in H.264 format with 7x optical zoom and stereo audio. The Still In Movie function allows capturing still photos during video recording. A mini HDMI output enables connection to an HD-compatible TV (cable sold separately) for viewing. Maximum recording duration is 29 minutes per video.
- **YouTube™ Capture Mode:** Optimizes video quality and size for direct upload to YouTube™. Videos are saved in a separate folder, simplifying the upload process with dedicated software. Maximum recording duration is 15 minutes per video.
- **High-Speed Movies:** Records movements too fast for the human eye, then plays them back in ultra-slow motion. Selectable speeds include HS240fps, HS480fps, and HS30fps - HS240fps.
- **Anticipation Function:** If you press the movie button too late, the camera can save the last 5 seconds of footage by continuously recording in a buffer. When the button is pressed, the buffered 5 seconds are added to the current recording.

4. MAINTENANCE

4.1 Cleaning the Camera

- **Camera Body:** Use a soft, dry cloth to wipe the camera body. For stubborn dirt, lightly dampen the cloth with water and then wipe dry. Avoid using organic solvents like alcohol or paint thinner.
- **Lens:** Use a lens brush or a blower to remove dust. For smudges, use a soft lens cleaning cloth specifically designed for optical surfaces. Do not touch the lens with your fingers.
- **LCD Screen:** Gently wipe the screen with a soft, dry cloth. Avoid pressing hard or using abrasive materials.

4.2 Battery Care

- Always use the specified battery (NP-110) and charger (BC-110L).
- Store batteries in a cool, dry place when not in use.

- Avoid exposing batteries to extreme temperatures.

4.3 Storage

When storing the camera for extended periods, remove the battery and memory card. Store the camera in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Casio EXILIM EX-ZR10 camera.

- **Camera does not turn on:**
 - Ensure the battery is fully charged and correctly inserted.
 - Check if the battery contacts are clean.
- **Images are blurry:**
 - Ensure the lens is clean and free from smudges.
 - Check if the camera is properly focused on the subject.
 - Use the mechanical image stabilizer or High-Speed Anti-Shake function, especially in low light or with zoom.
 - Ensure shutter speed is adequate for the lighting conditions and subject movement.
- **Battery drains quickly:**
 - Battery performance can decrease over time. Consider replacing an old battery.
 - Frequent use of flash, continuous shooting, or video recording consumes more power.
 - Reduce screen brightness if possible.
- **Memory card error:**
 - Ensure the memory card is correctly inserted.
 - Try formatting the memory card (note: this will erase all data).
 - Test with a different, compatible memory card.
- **Video quality is poor in low light:**
 - High-speed video modes (e.g., HS240fps, HS480fps) often require ample lighting for best results.
 - Ensure sufficient ambient light or use appropriate lighting accessories.

6. SPECIFICATIONS

Feature	Specification
Brand	Casio
Model Name	EXILIM EX-ZR10
Effective Still Image Resolution	12.1 MP, 12.4 MP
Photo Sensor Size	1/2.3"
Photo Sensor Technology	CMOS

Optical Zoom	7x
Digital Zoom	4x
Image Stabilization	Digital, Optical
Max Focal Length	196 Millimeters
Min Focal Length	28 Millimeters
Video Capture Resolution	1080p
Continuous Shooting Speed	30 FPS
Screen Size	3 Inches
Screen Type	TFT
Compatible Memory Cards	SD, SDHC, SDXC
Connectivity Technology	HDMI, USB
Battery Type	Lithium-ion (NP-110)
Item Weight	176 Grams
Color	Black

7. WARRANTY AND SUPPORT

7.1 Manufacturer's Warranty

This product is typically covered by a manufacturer's warranty. Please refer to the warranty documentation included with your purchase or visit the official Casio website for detailed information regarding warranty terms, conditions, and duration in your region. The warranty generally covers defects in materials and workmanship under normal use.

7.2 Customer Support

For technical assistance, service, or inquiries regarding your Casio EXILIM EX-ZR10 camera, please contact Casio customer support. Contact information can usually be found on the official Casio website or in the documentation provided with your product.

Online resources, including FAQs and driver downloads, may also be available on the Casio support website.