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Canon EOS 20D

Canon EOS 20D DSLR Camera with EF-S 18-55mm Lens Instruction Manual

Model: EOS 20D

1. INTRODUCTION

This manual provides detailed instructions for the proper use and maintenance of your Canon EOS 20D Digital Single-Lens Reflex (DSLR) camera, including the EF-S 18-55mm f/3.5-5.6 lens. The EOS 20D is designed for advanced amateurs and professionals, featuring an 8.2-megapixel CMOS sensor, DIGIC II image processor, and a robust magnesium alloy body. Please read this manual thoroughly to ensure optimal performance and longevity of your equipment.



Image 1.1: Canon EOS 20D DSLR Camera. This image displays the Canon EOS 20D camera body, featuring its ergonomic grip, top-mounted LCD screen, and the attached EF-S 18-55mm lens. The camera's robust construction is visible.

2. WHAT'S IN THE BOX

Verify that all the following items are included with your Canon EOS 20D camera kit:

- EOS 20D digital camera body
- EF-S 18-55mm f/3.5-5.6 lens
- Lithium-ion battery pack (BP-511A) with protective cover
- Battery charger (CG-580)
- USB cable (IFC-400PCU)
- Video cable (VC-100)
- EB eyecup
- Wide neck strap
- EOS Digital Solutions Software CD-ROM
- Adobe Photoshop Elements 2.0 Software CD-ROM
- EOS 20D instruction manual (this document)

3. SETUP GUIDE

3.1. Attaching the Lens

1. Remove the body cap from the camera and the rear cap from the lens.
2. Align the red dot on the lens with the red dot on the camera's lens mount.
3. Insert the lens into the camera mount and turn it clockwise until it clicks into place.

3.2. Installing the Battery

1. Open the battery compartment cover located at the bottom of the camera.
2. Insert the BP-511A battery pack with the contacts facing inward, ensuring it locks into place.
3. Close the battery compartment cover securely.

3.3. Inserting a CompactFlash Card

1. Open the CompactFlash card slot cover on the side of the camera.
2. Insert the CompactFlash card with the correct orientation until it clicks.
3. Close the card slot cover.

3.4. Initial Settings

After powering on the camera for the first time, you may need to set the date, time, and language. Follow the on-screen prompts using the multicontroller and main dial.

4. OPERATING THE CAMERA

4.1. Power On/Off

To power on the camera, slide the power switch located near the main dial to the 'ON' position. The camera has a quick 0.2-second start-up time. To power off, slide the switch to 'OFF'.

4.2. Shooting Modes

The EOS 20D offers various shooting modes accessible via the mode dial:

- **Program AE (P):** Camera sets aperture and shutter speed for optimal exposure.
- **Shutter-priority AE (Tv):** You set shutter speed, camera sets aperture.
- **Aperture-priority AE (Av):** You set aperture, camera sets shutter speed.
- **Manual (M):** You set both aperture and shutter speed.
- **Depth-of-field AE (A-DEP):** Camera automatically sets aperture to achieve a desired depth of field.
- **Scene Modes:** Includes Portrait, Landscape, Close-up, Sports, Night Portrait, and Flash Off for specific shooting situations.

4.3. Focusing

The camera features a high-precision nine-point AF system. You can select focus points manually using the multicontroller on the back of the camera or allow the camera to select them automatically. The focus mode can be set to One-Shot AF, AI Servo AF (for moving subjects), or AI Focus AF.

4.4. Image Review

Press the 'PLAY' button to review captured images on the 1.8-inch TFT color LCD monitor. You can zoom in up to 10 times for detailed analysis using the zoom buttons. The multicontroller allows horizontal and vertical

scrolling within the zoomed image.

4.5. Direct Printing (PictBridge)

Connect the EOS 20D directly to a PictBridge-compatible printer using the USB 2.0 port. You can print images directly from the camera, with options to trim, add frames, superimpose dates, or print multiple copies.

5. KEY FEATURES

5.1. 8.2-Megapixel CMOS Sensor

The EOS 20D incorporates an 8.2-megapixel APS-C size CMOS sensor, providing exceptional clarity and tonal range. It features a 3:2 aspect ratio, similar to 35mm film, and an extensive ISO range from 100 to 1600 (expandable to 3200).

5.2. DIGIC II Image Processor

Equipped with Canon's second-generation DIGIC II image processor, the camera delivers precise, natural colors and accurate white balance. This processor also contributes to faster image capture, reduced buffer clearing times, and efficient power consumption.

5.3. High-Speed Performance

The camera offers continuous shooting at 5 frames per second for up to 23 consecutive JPEG frames. It boasts a 0.2-second start-up time and a minimal 65-microsecond shutter release lag time, ensuring responsiveness.

5.4. Image File Formats

The EOS 20D supports JPEG and RAW (.CR2) file formats. You can choose to shoot in JPEG only, RAW only, or simultaneously record both RAW and JPEG files. RAW files offer 12-bit per pixel data for wider tonal range.

5.5. Advanced Color Control

Features include white balance compensation (adjustable +/-9 steps in blue/amber or magenta/green hues) and white balance bracketing. Images can be processed for Adobe RGB or sRGB color spaces. A built-in monochrome mode allows for black-and-white photography with various filter and toning effects.

5.6. Lens Compatibility

The EOS 20D is compatible with all Canon EF lenses and the newer EF-S series lenses, offering a wide range of optical options from ultra-wide-angle to super-telephoto.

5.7. Flash Photography

The camera utilizes the E-TTL II flash metering system, ensuring stable flash brightness with the built-in flash (guide number 43/13 @ ISO 100 m/ft.) or any EX Speedlite flash units.

6. MAINTENANCE

6.1. Cleaning the Camera Body and Lens

- Use a soft, dry cloth to clean the camera body.
- For the lens, use a lens brush to remove dust, then a lens cleaning cloth with a specialized lens cleaning solution. Avoid touching the lens surface with your fingers.

- Never use organic solvents or strong chemical cleaners.

6.2. Sensor Cleaning

Dust on the image sensor can appear as spots in your photos. If dust is visible, it is recommended to have the sensor cleaned by a Canon service center. The camera also has a manual sensor cleaning function that lifts the mirror, allowing access for cleaning with specialized tools (use with caution).

6.3. Battery Care

- Charge the battery fully before use.
- Store batteries in a cool, dry place when not in use.
- Remove the battery from the camera if it will not be used for an extended period.

6.4. Storage

Store the camera in a dry, well-ventilated area, away from direct sunlight and extreme temperatures. Use silica gel packets to absorb moisture if storing in humid environments.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your EOS 20D camera.

Problem	Possible Cause	Solution
Camera does not power on.	Battery is depleted or incorrectly inserted.	Charge the battery or reinsert it correctly.
Images are blurry.	Incorrect focus, camera shake, or dirty lens.	Ensure proper focus, use a faster shutter speed or tripod, clean the lens.
Memory card error.	Card is full, corrupted, or incompatible.	Replace card, format card (will erase data), or use a compatible CompactFlash card.
Flash does not fire.	Flash is disabled, or in a mode where it won't fire.	Check flash settings; ensure it's not in 'Flash Off' mode.
Photos are too dark or too bright.	Incorrect exposure settings.	Adjust ISO, aperture, or shutter speed. Use exposure compensation.

8. SPECIFICATIONS

Feature	Detail
Model Name	Canon EOS 20D
Sensor Type	CMOS
Effective Still Resolution	8.2 MP
Image Processor	DIGIC II
Lens Mount	Canon EF, Canon EF-S

Feature	Detail
Included Lens	EF-S 18-55mm f/3.5-5.6
ISO Sensitivity	100-1600 (Expanded to 3200)
Autofocus System	9-point AF
Shutter Speed	1/8000 to 30 seconds, Bulb
Continuous Shooting Speed	5 fps
LCD Screen	1.8-inch TFT color LCD
Storage Media	CompactFlash Type I/II
Battery	Lithium-ion BP-511A
Connectivity	USB 2.0, Video Out
Dimensions (W x H x D)	Approx. 144 x 105.5 x 71.5 mm (5.7 x 4.2 x 2.8 in.)
Weight	Approx. 685g (1.5 lbs) (body only)

9. WARRANTY AND SUPPORT

9.1. Limited Warranty

The Canon EOS 20D camera typically comes with a 1-year USA limited warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions, including coverage details and how to obtain service.

9.2. Additional Support

For further assistance, technical support, or service inquiries, please visit the official Canon website or contact Canon customer service. An electronic version of the user manual is also available for download:

- [Download User Manual \(PDF\)](#)