

Canon 650D

Canon EOS 650D Digital SLR Camera User Manual

Model: EOS 650D

INTRODUCTION

This manual provides essential information for the safe and effective use of your Canon EOS 650D Digital SLR Camera. The EOS 650D is designed for capturing high-quality still images and Full HD movies. It features an 18.0 MP APS-C CMOS sensor, a Vari-angle 3.0" Clear View LCD II Touch screen, and a 9-point wide-area autofocus system. Please read this manual thoroughly before using the camera and keep it for future reference.

WHAT'S IN THE BOX

Verify that all the following items are included in your camera kit:

- Canon EOS 650D Camera Body
- EF-S 18-55mm f/3.5-5.6 IS II Lens
- Battery Pack (LP-E8)
- Battery Charger (LC-E8E)
- Wide Strap (EW-100DBIV)
- Interface Cable (USB)
- Instruction Manual
- Eyecup Ef
- Body Cap
- Lens Cap (E-58 II)
- Lens Dust Cap E



Image: All components included in the Canon EOS 650D kit, laid out on a white surface.

SETUP

1. Charging the Battery

Insert the provided Lithium-Ion battery pack (LP-E8) into the battery charger (LC-E8E). Plug the charger into a power outlet. The charging indicator light will show the charging status. A fully discharged battery typically takes approximately 2 hours to charge.

2. Inserting the Battery

Open the battery compartment cover on the bottom of the camera. Insert the charged battery pack with the electrical contacts facing inward until it locks into place. Close the cover securely.

3. Inserting a Memory Card

The EOS 650D uses SD, SDHC, or SDXC memory cards. Open the memory card slot cover on the side of the camera. Insert the memory card with the label facing the back of the camera until it clicks into place. Close the cover.

4. Attaching the Lens

Remove the body cap from the camera and the rear lens cap from the lens. Align the red dot on the lens with the red dot on the camera's lens mount. Turn the lens clockwise until it clicks into place. Ensure the lens is securely attached before use.



Image: The Canon EF-S 18-55mm kit lens.

5. Initial Camera Settings

Turn the camera on using the power switch. The initial setup screen will appear, prompting you to set the date, time, and time zone. Use the Vari-angle 3.0-inch LCD touchscreen or the camera's buttons to navigate and confirm your selections.



Image: Front view of the Canon EOS 650D camera with the kit lens.

OPERATING THE CAMERA

Shooting Modes

The mode dial on top of the camera allows you to select various shooting modes:

- **Scene Intelligent Auto:** Fully automatic mode for general shooting.
- **Creative Auto:** Offers more control over background blur and ambiance.
- **Special Scene Modes:** Includes Portrait, Landscape, Sports, Night Portrait, Handheld Night Scene, HDR Backlight Control.
- **Creative Filters:** Apply effects like Grainy B/W, Soft Focus, Fish-eye effect.
- **Program AE (P):** Camera sets aperture and shutter speed, you control other settings.
- **Shutter-priority AE (Tv):** You set shutter speed, camera sets aperture.
- **Aperture-priority AE (Av):** You set aperture, camera sets shutter speed.
- **Manual Exposure (M):** You set both aperture and shutter speed.

Autofocus System

The EOS 650D features a 9-point wide-area AF system with a cross-type center point for accurate focusing. In Live View and Movie shooting, Hybrid CMOS AF provides continuous autofocus. For fast-moving subjects, the camera supports 5 frames per second (fps) continuous shooting.

Exposure Control and ISO

The camera offers automatic exposure control with evaluative metering. The standard ISO range is 100-12,800, expandable to 25,600 for low-light conditions. Adjust ISO sensitivity to control image brightness and noise.

Video Recording

To record movies, set the mode dial to the movie shooting position. The camera supports Full HD (1080p) video recording at various frame rates, saving files in MP4 format. Manual controls for exposure and audio levels are available during movie shooting.

Using the Vari-angle Touchscreen LCD

The 3.0-inch Vari-angle Clear View LCD II Touch screen allows for intuitive control. You can tap to focus, adjust settings, and review images. The articulating screen can be rotated for shooting from various angles.



Image: Rear view of the Canon EOS 650D, showing the touchscreen LCD and control buttons.

MAINTENANCE

Cleaning the Camera

- **Camera Body:** Use a soft, dry cloth to wipe dust and smudges. For stubborn dirt, slightly dampen the cloth with water.
- **Lens:** Use a lens blower brush to remove dust. For smudges, use a lens cleaning solution and a microfiber cloth. Avoid touching the lens surface directly.
- **Sensor:** Canon recommends professional sensor cleaning. Avoid attempting to clean the sensor yourself unless you are experienced.
- **LCD Screen:** Use a soft, dry cloth. For fingerprints, use a screen cleaner designed for electronics.

Battery Care

- Store batteries in a cool, dry place.
- Avoid fully discharging batteries frequently.
- Remove the battery from the camera when not in use for extended periods.

Storage

When storing the camera for long periods, remove the battery and memory card. Store the camera in a dry, well-ventilated area, preferably in a camera bag with desiccant to prevent mold and mildew.

TROUBLESHOOTING

This section addresses common issues you might encounter. For more detailed troubleshooting, refer to the full instruction manual or Canon's support website.

- **Camera does not turn on:** Ensure the battery is charged and correctly inserted. Check if the battery contacts are clean.
- **Cannot take pictures:** Check if a memory card is inserted and has sufficient space. Ensure the lens is properly attached and the lens cap is removed.
- **Images are blurry:** Verify that the lens is in autofocus (AF) mode or manually focused correctly. Check shutter speed to avoid camera shake, especially in low light.
- **Flash does not fire:** Ensure the flash is enabled and not in a mode that disables it (e.g., Silent mode). Check battery level.
- **Error message on screen:** Note the error code and consult the full instruction manual or Canon support for specific solutions. Often, turning the camera off and on again can resolve minor glitches.

SPECIFICATIONS

Model Name	EOS 650D (Rebel T4i / Kiss X6i)
Sensor Type	APS-C CMOS
Effective Pixels	Approx. 18.0 Megapixels
Image Processor	DIGIC 5
Lens Mount	Canon EF/EF-S
ISO Sensitivity	100-12800 (H: 25600)

Autofocus System	9-point all cross-type AF (Contrast Detection)
Continuous Shooting	Max. 5.0 fps
Video Recording	Full HD (1080p) MP4
LCD Monitor	Vari-angle 3.0-inch Clear View LCD II Touch screen
Storage Media	SD/SDHC/SDXC card
Battery	LP-E8 Lithium-Ion
Dimensions (W x H x D)	Approx. 133.1 x 99.8 x 78.8 mm (5.24 x 3.93 x 3.10 in.)
Weight (Body only)	Approx. 575 g (1.27 lbs)

WARRANTY AND SUPPORT

Your Canon EOS 650D camera comes with a limited warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions. For technical support, service, or additional information, please visit the official Canon website or contact Canon customer service in your region. Keep your proof of purchase for warranty claims.

Online Support: [Canon Support Website](#)