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Sony DSC-W650

Sony Cyber-shot DSC-W650 Digital Camera Instruction Manual

Model: DSC-W650

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your Sony Cyber-shot DSC-W650 digital camera. Please read this manual thoroughly before operating the camera and retain it for future reference. The Sony Cyber-shot DSC-W650 is a 16.1-megapixel digital camera featuring a 5x optical zoom Carl Zeiss lens, a 3.0-inch LCD, and 720p HD video recording capabilities. It includes various intelligent shooting modes and image enhancement functions to assist in capturing high-quality photographs and videos.

WHAT'S IN THE BOX

Verify that all items listed below are included with your camera package:

- Sony Cyber-shot DSC-W650 Digital Camera
- Battery (NP-BN)
- Battery Charger
- Multi USB Cable
- Wrist Strap
- Instruction Manual (this document)

CAMERA PARTS AND CONTROLS

Familiarize yourself with the various parts and controls of your camera.

Front View



Figure 1: Front view of the Sony Cyber-shot DSC-W650 digital camera. This image displays the camera's front panel, highlighting the Carl Zeiss Vario-Tessar lens, the built-in flash, the autofocus assist lamp, and the power button. The 'SONY' and 'Cyber-shot' logos are clearly visible, along with the '16.1 MEGA PIXELS' indicator.

- **Lens:** Carl Zeiss Vario-Tessar lens with 5x optical zoom.
- **Flash:** Built-in flash for illuminating subjects in low light.
- **Autofocus Assist Lamp:** Emits light to aid autofocus in dark environments.
- **Power Button:** Turns the camera on or off.
- **Shutter Button:** Press halfway to focus, fully to capture an image.

Rear View



Figure 2: Rear view of the Sony Cyber-shot DSC-W650 digital camera. This image shows the camera's back panel, featuring the large 3.0-inch LCD screen, the zoom lever (W/T), the playback button, the DISP button, the 5-way control button, and the MENU button. The 'SONY' logo is also present at the bottom.

- **LCD Screen:** 3.0-inch (230K dots) Clear Photo LCD for composing shots and reviewing images/videos.
- **Zoom Lever (W/T):** Controls optical zoom (W for Wide, T for Telephoto).
- **Playback Button:** Enters playback mode to view captured images and videos.
- **DISP Button:** Changes the information displayed on the LCD screen.
- **5-Way Control Button:** Navigates menus and selects options. Also provides shortcuts for Flash, Self-Timer, and Smile Shutter.
- **MENU Button:** Accesses the camera's main menu for settings and functions.
- **Delete Button:** Deletes selected images or videos in playback mode.

SETUP

1. Charging the Battery

1. Insert the supplied NP-BN battery into the battery charger.
2. Plug the battery charger into a wall outlet. The charge lamp will illuminate.
3. When the charge lamp turns off, the battery is fully charged. Remove the battery from the charger.

Note: A fully charged battery provides approximately 220 photos or 29 minutes of video recording.

2. Inserting the Battery and Memory Card

1. Open the battery/memory card cover on the bottom of the camera.
2. Insert the charged battery with the correct orientation until it clicks into place.
3. Insert a compatible memory card (SD/SDHC/SDXC or Memory Stick Duo/Pro Duo/Pro-HG Duo) into the memory card slot until it clicks. Ensure the card is facing the correct direction.
4. Close the battery/memory card cover securely.

3. Initial Settings (Date and Time)

1. Press the Power button to turn on the camera.
2. The initial setup screen will appear. Use the 5-way control button to select your desired language, date, time, and time zone.
3. Confirm your selections to complete the initial setup.

OPERATING THE CAMERA

1. Basic Still Image Shooting (Intelligent Auto Mode)

1. Turn on the camera by pressing the Power button. The camera will typically start in Intelligent Auto mode.
2. Frame your subject on the LCD screen.
3. Press the Shutter button halfway down to focus. The focus indicator will turn green when focus is achieved.
4. Press the Shutter button fully down to capture the image.

2. Using the Zoom

To zoom in or out, push the Zoom lever (W/T) located on the rear of the camera. Push towards 'T' for telephoto (zoom in) and 'W' for wide-angle (zoom out).

3. Recording Videos (720p HD)

1. In shooting mode, press the dedicated Movie button (if available, or select Movie mode from the menu).
2. Frame your subject.
3. Press the Movie button again to start recording. A recording indicator will appear on the screen.
4. Press the Movie button once more to stop recording.

Note: Video recording is limited to 29-minute segments.

4. Reviewing Images and Videos

1. Press the Playback button.
2. Use the left/right arrows on the 5-way control button to navigate through your captured media.
3. To play a video, select it and press the center button of the 5-way control.
4. Press the Playback button again to return to shooting mode.

5. Changing Shooting Modes

Press the MENU button and navigate to the shooting mode options to select from modes such as Program Auto, Picture Effect, or Scene Selection. Each mode offers different creative controls and automatic optimizations.

KEY FEATURES

16.1 Megapixel Super HAD CCD Image Sensor

The camera features a 16.1 megapixel 1/2.3-inch Super HAD CCD image sensor, designed to capture images with high contrast and clarity. This resolution supports creating large prints or cropping images while retaining detail.

3.0-inch Clear Photo LCD Display

A 3.0-inch (230K dots) Clear Photo LCD display provides clear and natural color reproduction, facilitating easy composition, menu navigation, and photo review, even in bright conditions.

Optical SteadyShot Image Stabilization

Optical SteadyShot technology utilizes a built-in gyro sensor to detect camera movement and automatically shifts the lens to counteract blur, helping to produce sharper images without compromising quality.

Sweep Panorama Mode (up to 360°)

This mode allows for capturing wide panoramic images. Simply press the shutter button and sweep the camera in the desired direction. The camera automatically stitches multiple images together to create a single, continuous panoramic photo, available in wide and up to 360° full circle formats.

720p HD Movie Mode

Record high-definition videos in 720p MP4 format (1280 x 720 at 30fps). This standard format is compatible with PCs and allows for full use of the optical zoom during recording. Videos can be easily transferred and uploaded to sharing platforms.

Intelligent Auto Mode (iAuto)

The iAuto mode automatically analyzes the scene, lighting conditions, and subjects (including faces) to optimize camera settings. This results in clear images with natural skin tones and reduced blur, simplifying the shooting process.

Picture Effect

Apply various creative effects to your photos directly in the camera, such as Toy Camera, Pop Color, Partial Color, and Soft High-key, to enhance mood and visual impact.

Face Detection Technology

This technology detects up to eight individual faces in a frame and adjusts focus, exposure, and white balance to ensure subjects are properly lit and sharp.

Smile Shutter Technology

The camera automatically captures a photo the moment a smile is detected. Sensitivity can be adjusted, and it can be used in conjunction with Intelligent Scene Recognition.

Anti-Blink Function

To prevent photos with closed eyes, the Anti-blink function can capture two images and save the one with less squinting. A warning is displayed if a blink is detected in other shooting modes.

Soft Skin Mode

This mode identifies skin tones and reduces the appearance of blemishes and wrinkles in portraits without affecting other areas of the image.

Intelligent Scene Recognition (iSCN) Mode

iSCN automatically detects up to seven different scene types (e.g., Backlight, Portrait, Landscape) and adjusts camera settings accordingly. In Advanced Mode, it can take a second optimized photo for challenging lighting conditions.

Natural Flash

This mode aims to correct color in flash photography by taking a reference shot without flash, resulting in more lifelike images.

Dynamic Range Optimizer (DRO)

DRO helps recover detail in both shadow and highlight areas of an image, producing more natural-looking photos, especially in high-contrast scenes. DRO Plus offers enhanced optimization.

Self-Portrait Timer

Utilizes Face Detection technology to recognize when your face enters the frame, triggering a 2-second timer before capturing a self-portrait.

MAINTENANCE AND CARE

- **Cleaning the Lens:** Use a soft, dry cloth or a lens brush to gently remove dust. For stubborn smudges, use a lens cleaning solution applied to a lens tissue. Avoid touching the lens surface with your fingers.
- **Cleaning the LCD Screen:** Wipe the screen gently with a soft, lint-free cloth. Do not use abrasive cleaners.
- **Camera Body:** Wipe the camera body with a soft, dry cloth. For dirt, lightly dampen the cloth with water and then wipe dry. Avoid using organic solvents like alcohol or thinner.
- **Storage:** When not in use for extended periods, remove the battery and store the camera in a cool, dry place away from direct sunlight and extreme temperatures.
- **Water Resistance:** This camera is not water-resistant. Avoid exposure to water, rain, or high humidity.

TROUBLESHOOTING

Camera Does Not Turn On

- Ensure the battery is fully charged and correctly inserted.
- Check if the battery terminals are clean.

Cannot Take Pictures

- Verify that a memory card is inserted and has sufficient free space.
- Check if the battery has enough charge.
- Ensure the lens cap (if any) is removed.

Images Are Blurry

- Hold the camera steady during shooting. Use Optical SteadyShot.
- Ensure the camera has focused correctly (press the shutter button halfway).
- Check for dirt or smudges on the lens.
- In low light, increase ISO sensitivity or use the flash.

Flash Does Not Fire

- Check the flash mode setting. It might be set to "Off" or "Auto" in bright conditions.
- Ensure the flash is not obstructed.

Memory Card Error

- Turn off the camera, remove and reinsert the memory card.
- Try formatting the memory card (note: this will erase all data).
- If the issue persists, the memory card may be faulty.

SPECIFICATIONS

Feature	Detail
Model Name	Sony Cyber-shot DSC-W650
Image Sensor	16.1 MP 1/2.3-inch Super HAD CCD
Lens Type	Carl Zeiss Vario-Tessar
Optical Zoom	5x
Focal Length (35mm equivalent)	Still 4:3: 25-125mm
Display	3.0-inch (230K dots) Clear Photo LCD
Image Stabilization	Optical SteadyShot
Video Recording	720p HD (1280x720/30fps) MP4
ISO Sensitivity	Auto, 80-3200
Shutter Speed	2 seconds - 1/1600 seconds
Storage Media	SD/SDHC/SDXC, Memory Stick Duo/Pro Duo/Pro-HG Duo
Connectivity	USB 2.0, AV Output
Battery Type	NP-BN Lithium-Ion
Dimensions (W x H x D)	Approx. 97.7 x 56.1 x 19.8 mm (3.85 x 2.21 x 0.78 inches)
Weight (with battery & media)	Approx. 116 g (0.26 lbs)

WARRANTY AND SUPPORT

Warranty Information

This product is covered by a 90-day Limited Hardware Warranty. For full details regarding warranty terms and conditions, please refer to the warranty document included with your product or visit the official Sony support website.

Customer Support

For technical assistance, troubleshooting, or service inquiries, please visit the official Sony support website or contact Sony customer service. Keep your product model number (DSC-W650) and serial number ready when contacting support.

Note: The warranty link provided in the product data is for a PDF, which cannot be directly embedded or linked as a primary support channel in this context. Users should refer to the official Sony support portal.

