SJCAM SJ7

SJCAM SJ7 Star Action Camera User Manual
Model: SJ7 Star

1. INTRODUCTION

The SJCAM SJ7 Star is a high-performance action camera designed to capture your adventures in stunning 4K resolution. Featuring an Ambarella A12S75 processor and a Sony IMX117 12MP sensor, it delivers clear images and smooth video. The camera includes a 2.0-inch touchscreen for easy navigation and a durable aluminum alloy housing. This manual provides essential information for operating and maintaining your device.

Image 1.1: SJCAM SJ7 Star Action Camera, available in silver and black finishes. This image displays the front view of two cameras, highlighting their compact design and lens.

2. PACKAGE CONTENTS

Verify that all items are present in your SJCAM SJ7 Star package:

- 1 x Original SJCAM SJ7 Star Action Camera
- 1 x Waterproof Housing
- 1 x Quick Release Buckle
- 1 x Handlebar Seat Post Mount
- 1 x Curved Adhesive Mount
- 1 x Flat Adhesive Mount
- 1 x 3-Way Pivot Arm Mount
- 2 x 3M Adhesive Tape
- 1 x Frame Mount
- 1 x Quick Release Clip for The Frame
- 1 x Vertical Quick Release J-Hook Buckle
- 1 x Universal 1/4" Camera Tripod Mount
- 1 x Tripod Mount Adapter
- 1 x Cleaning Cloth
- 1 x USB Cable
- 1 x 1000mAh Li-ion Battery
- 1 x Multi-language Manual
- 2 x SJCAM Stickers

Note: SJ Smart Remote and external microphone are not included in the standard package.

Image 2.1: Various mounting accessories and cables included with the SJCAM SJ7 Star. This image displays a collection of mounts, adhesive pads, and a USB cable, illustrating the comprehensive accessory kit.

3. SETUP

3.1. Battery Installation

1. Open the battery compartment cover on the bottom of the camera.
2. Insert the 1000mAh Li-ion battery, ensuring the contacts align correctly.
3. Close the battery compartment cover securely.

3.2. MicroSD Card Insertion

The SJ7 Star supports SDHC and SmartMedia flash memory types. A Class 10 or higher MicroSD card (up to 128GB, not included) is recommended for optimal performance, especially when recording 4K video.

1. Locate the MicroSD card slot on the side of the camera.
2. Insert the MicroSD card with the gold contacts facing the back of the camera until it clicks into place.
3. To remove, gently push the card in until it springs out.

3.3. Waterproof Housing

The included waterproof housing allows the camera to be used underwater. Ensure the housing is properly sealed before submerging the camera. Test the housing without the camera first to confirm its integrity.

3.4. Mounting the Camera

Utilize the various mounts provided to attach your SJ7 Star to helmets, handlebars, or other surfaces. Refer to the specific mount instructions for secure attachment.

Image 3.1: Multiple views of the SJCAM SJ7 Star, showing its various ports and buttons. This composite image displays the camera from different angles, highlighting the power button, settings button, lens, and side ports for USB and MicroSD card.

4. OPERATING INSTRUCTIONS

4.1. Power On/Off

- **Power On:** Press and hold the Power/Mode button (usually on the front or top) for a few seconds until the screen illuminates.
- **Power Off:** Press and hold the Power/Mode button again until the screen turns off.

4.2. Using the Touchscreen

The 2.0-inch TFT LCD touchscreen allows for intuitive navigation through menus and settings.
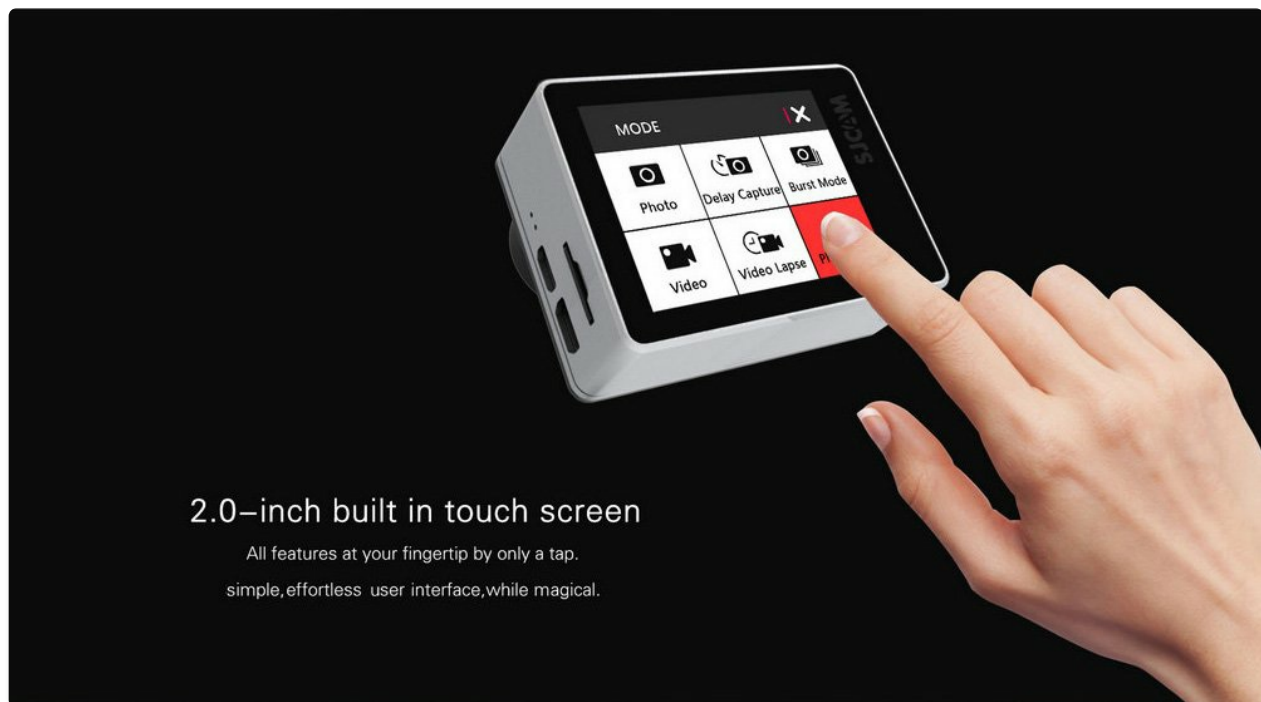

Image 4.1: The 2.0-inch touchscreen interface of the SJCAM SJ7 Star, showing menu options. This image illustrates a hand interacting with the camera's display, showcasing the intuitive icons for photo, video, and various capture modes.

- **Navigate:** Swipe left, right, up, or down to browse through modes and settings.
- **Select:** Tap on an icon or option to select it.
- **Exit:** Tap the 'X' icon or swipe from the edge to return to the previous screen or main interface.

4.3. Video Recording

The SJ7 Star supports various video resolutions and frame rates, including native 4K at 30fps.

- **Start Recording:** In video mode, tap the record icon on the touchscreen or press the Shutter button.
- **Stop Recording:** Tap the record icon or press the Shutter button again.
- **Electronic Image Stabilization (EIS):** EIS is supported at 1080P 60/30 fps to reduce camera shake. Enable this feature in the settings menu for smoother footage.
- **Video Formats:** Videos are recorded in H.264 BP/MP/HP Level 5.1 and MJPEG codecs.

4.4. Photo Capture

Capture still images up to 12MP, with interpolation available for 16MP photos.

- **Take Photo:** In photo mode, tap the capture icon on the touchscreen or press the Shutter button.
- **Image Formats:** Photos are saved as JPEG files.

4.5. WiFi Connectivity

Connect your SJ7 Star to a smartphone or tablet via WiFi for remote control and file transfer.

1. Enable WiFi on the camera via the settings menu.
2. Download the official SJCAM app on your mobile device.
3. Connect to the camera's WiFi network from your device's WiFi settings.
4. Open the SJCAM app to control the camera and access media.

4.6. External Microphone

The SJCAM SJ7 Star supports external microphones. **Only official SJCAM external microphones are compatible.** Using microphones from other brands may result in non-functionality.

4.7. Other Functions

The camera offers various advanced functions accessible through the settings menu:

- **Time Lapse Function:** Capture a series of photos at set intervals to create a time-lapse video.
- **Self Timer:** Set a delay before a photo is taken.
- **Continuous Shooting:** Take multiple photos in quick succession.
- **Auto Shooting:** Automatically capture photos.
- **Motion Detection:** Start recording when motion is detected.
- **Loop Record:** Overwrite the oldest footage when the memory card is full.
- **Sharpness:** Adjust the image sharpness.
- **White Balance:** Adjust color temperature for accurate colors in different lighting conditions.

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5. MAINTENANCE

5.1. Cleaning

- Use the provided cleaning cloth or a soft, lint-free cloth to clean the camera body and lens.
- Avoid using harsh chemicals or abrasive materials.
- Ensure the lens is free of dust and smudges for clear images.

5.2. Battery Care

- Charge the battery fully before first use.
- Store the camera and battery in a cool, dry place when not in use.
- Avoid exposing the battery to extreme temperatures.

5.3. Firmware Updates

Periodically check the official SJCAM website for firmware updates. Keeping your camera's firmware updated can improve performance, add new features, and resolve bugs.

1. Download the latest firmware file from the SJCAM official website.
2. Follow the specific instructions provided with the firmware update to avoid damaging the device.

6. TROUBLESHOOTING

If you encounter issues with your SJCAM SJ7 Star, refer to the following common problems and solutions:

- **Camera Overheating:** Prolonged 4K recording or use in hot environments can cause the camera to overheat. Reduce recording resolution or allow the camera to cool down.

- **External Microphone Not Working:** Ensure you are using an official SJCAM external microphone. Third-party microphones are not supported. Check the microphone connection.

- **Camera Freezes or Becomes Unresponsive:** Remove and reinsert the battery to perform a hard reset. Ensure your firmware is up to date.

- **WiFi Connectivity Issues:** Restart both the camera and your mobile device. Ensure the SJCAM app is updated. Try reconnecting to the camera's WiFi network.

- **Red Lines on Screen:** This may indicate a firmware issue or hardware malfunction. Try updating or re-flashing the firmware. If the problem persists, contact customer support.

- **Battery Drains Quickly:** Ensure all unnecessary features (like WiFi) are turned off when not in use. Reduce screen brightness. Consider replacing an aging battery.

- **Missing HDMI Port:** Some product images may show an HDMI port. Verify your specific model's specifications. If a feature is critical and missing, contact your retailer.

If these solutions do not resolve your issue, please contact SJCAM customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	SJCAM
Model	SJ7
Chipset	Ambarella A12S75
Image Sensor	Sony IMX117 12MP CMOS
LCD Display	2.0 inch TFT LCD Touch Screen
Video Resolution	4K (3840x2160) 30fps, 2.7K, 2.5K, 1440P, 1080P, 960P, 720P
Photo Resolution	12MP (4000x3000), 8.3M, 5M, 3M (Interpolated up to 16M)
Video Format	H.264
Image Format	JPEG
Audio Format	PCM

Image Stabilization	Digital (EIS supported at 1080P 60/30 fps)
Lens Type	Wide Angle (Adjustable FOV up to 166°)
Storage	MicroSD (SDHC, SmartMedia)
Connectivity	USB, Wi-Fi
Battery	1000mAh Lithium Ion Rechargeable Battery
Special Features	Gyro Stabilization, Time Lapse, Self Timer, Continuous Shooting, Motion Detection, Loop Record
Item Weight	650 g

Image 7.1: Diagram illustrating the Ambarella A12S75 processor and Sony IMX117 CMOS sensor within the SJCAM SJ7 Star. This image highlights the core components responsible for the camera's image processing and performance.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

The SJCAM SJ7 Star typically comes with a **1-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects but generally excludes damage caused by misuse, accidents, or unauthorized modifications.

8.2. Customer Support

For technical assistance, warranty claims, or further inquiries, please contact SJCAM customer support through their official website or the retailer where you purchased the product. Provide your product model and serial number for faster service.

9. OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found in the provided data.