SJCAM

EMPOWER YOUR DREAMS

SJ10 PRO

USER MANUAL

SJCAM

INTRODUCTION

Dreams allow us to be bigger than who we currently are. Our mission is to bring you closer to what you most dare to be, your passion, your greatness, and for you to be able to share them with others.

In our last decade of experience in advancing Product Research and Development, we have gained the recognition and trust from customers and retailers all over the world, making us realize what needs to be done in order to encourage people to create more, explore further and farther, and make dreams happen.

Having our own factory and a facility of more than 500 employees, we have full control of overseeing all the processes in every step of the way, giving us the freedom to be more versatile and highly responsive to the ever-growing demands of the market, all for the purpose of our commitment to empower your dreams.

-SJCAM CEO

Congratulations on your new SJCAM Action Camera!

We know you're excited to use your SJ9 STRIKE, please take time to read this manual before doing anything with it. There's plenty you can do, so you need to familiarize yourself with the features now to get the most out of it.

It is important to keep your camera's firmware up to date. You may connect your camera via WiFi to the SJCAM ZONE app to automatically download and install the latest firmware, or visit www.sjcam.com/firmware.

CAUTION!

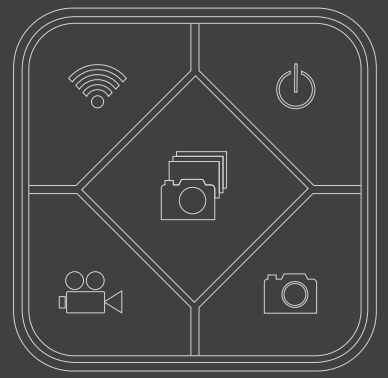
1. This is a high-precision product. Do not drop.
2. Do not expose the unit to strong magnetic fields, such as electric motors, magnets and machinery that use strong radio waves.
3. Never leave the unit in high-temperature areas. Electronics and optics can be damaged under prolonged exposure to heat.
4. Although this model is waterproof without needing an additional housing, it is important to check that all seals are intact and all doors are properly closed before submerging the camera in water.
5. Always store extra batteries in a compartment away from any sharp metals and moisture.
6. Avoid extended periods of battery charging. Keep it away from children and pets while charging to avoid accidents.

SJ10 PRO

SJCAM

SPECIFICATIONS

CHIPSET: Ambarella H22 S85
SENSOR: SONY IMX377
SENSOR RESOLUTION: 12 MegaPixels
LCD SCREEN: 2.33” IPS Touch Screen
LENS: 7G (2 Aspheric Lens included)
ANGLE: 170°
APERTURE: F 2.8
FOCAL LENGTH: 2.8mm
VIDEO RESOLUTION: 4K:(3840×2160)25/30/50/60fps,
1440P:(1920×1440) 25/30/50/60fps,
1080P:(1920×1080) 24/25/30/50/60/120fps. 720P:(1280×720) 240fps
BATTERY CAPACITY : 1300mAh Detachable Battery
WEIGHT: 85 G
DIMENSIONS: 62.5 MM 41 MM 28.8 MM
SYSTEM: WINDOWS 7, 8X or higher /OS X® 10.8 or higher
STORAGE SUPPORTED: MicroSD, UP TO 128GB
VIDEO FORMAT: MP4 (H264/H265)
DECODE FORMAT: H.264/H.265
VIDEO FORMAT: MOV, MP4
PHOTO RESOLUTIONS: 12M (4000×3000 4:3), 10M(3648×2736 4:3),8M 16:9 (3840×2160 16:9),
8M 4:3(3264×2448 4:3), 5M(2595×1944 4:3, 3M(2048×1536 4:3), 2MHD (1920X1080 16:9)
IMAGE FORMAT: JPG
WIFI : 2.4 G/5G (802.11 A/B/G/N)
GYRO STABILIZATION: 6-Axis Gyroscope
BATTERY DURATION (APPROX.): 100 Minutes for 4K@30fps

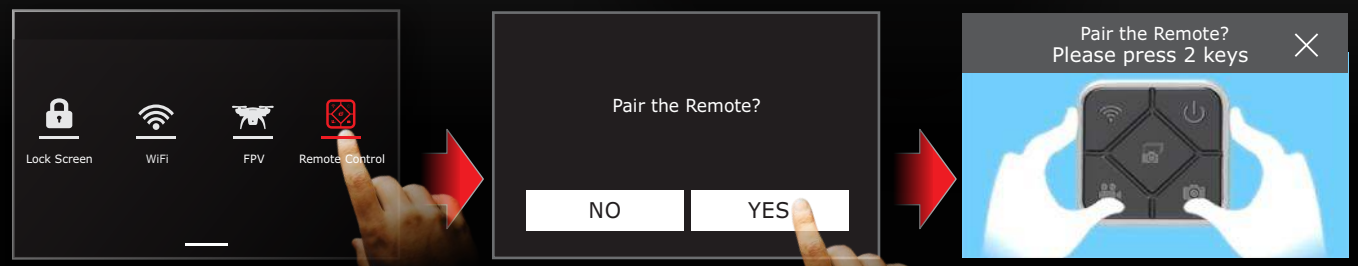


SJ10 PRO

PARTS OF YOUR CAMERA

SJCAM

SJ SMART REMOTE (Optional)



To pair your remote to your SJ8 PRO: Swipe down from the top > Select Remote Control
Tap the "YES" to start pairing. A picture instruction will appear. Press the Video and Photo buttons on the Remote simultaneously. "Pairing Complete" will show when successful.

SJCAM

Once your Remote is paired, you will never need to pair it again with your camera.
When the SJ10 PRO is powered on, SJ Remote can begin sending commands to your camera.

The Remote is tested to work at a maximum distance of 10 meters (30 feet) away from your SJ8 PRO unobstruced Line-Of-Sight. Distance may be affected severely by obstacles in the path of the signal.

SJ REMOTE BATTERY:
The battery on your Remote will last you a long time as it only uses power when you press any of the buttons.

The remote is powered with a Lithium CR2032 button-cell battery.

*Shown here is SJ Remote Version2.
It can be momentarily submerged in water up to 3 Meters (approx: 10feet).
Ver.1 has white icon labels, not waterproof, and production has been discontinued.

SJ10 PRO

SJCAM

POWERING ON

1

2

On the top right side of your camera is the Power/Shutter Button. Press and hold it down to start your camera.

The SJCAM splash-screen will briefly show while the camera initializes, and will immediately proceed to the Main Screen.

Press and hold down the Power Button anytime to turn the camera off.

The LED status indicator in front fo the camera will light blue while on standby. Blinking blue LED means it is recording.

SJ10 PRO

SJCAM

REPLACING THE BATTERY

1

2

3

Open the battery cover by holding the lock button down and sliding the cover in the direction shown above.

While pressing on the lock, swing the battery door open.
Grab the pull-tab with your fingers.

Pull the battery out.
Insert a freshly-charged battery in.

NOTE: The battery will only go in in one direction. Check that the arrow printed on the label at the bottom points to the front of the camera.

SJ10 PRO

INSERTING A MICROSD CARD

SJCAM

2

Locate the covered MicroSD card slot on the left side of the camera.
Push the button and slide the door down.
Swing the door outwards to expose the USB Type C port and the MicroSD slot.

Align the MicroSD card to the slot with the card face towards the front of the camera.
Gently push it in until it clicks into place.
Never force the card in. Always double-check the orientation first.

SJ10 PRO

SJCAM

INSERTING A USB-C CABLE

Locate the covered USB Type-C port on the left side of the camera.
Push the button and slide the door down.
Swing the door outwards to expose the USB Type C port and the MicroSD slot.

Firmly insert the USB-C cable included in the package all the way in.
Status indicator will light up RED when charging, and PURPLE when connected to a computer.

The USB-C port can be used for a variety of purposes.
For file transfers, battery charging, or to connect a microphone.

The Main Screen

Elapsed Time | Time left on Card

WiFi Active | Frequency

Current Mode Icon
Icon shows what mode you are currently in.

Current Date & Time
Displays the system time.

Go to Playback Mode
Tap this icon to go to the camera's gallery and view the videos and photos you have recorded.

Current Resolution / Options

Current ISO Details + Current Mode
Top displays the ISO Settings, bottom shows the current mode you're in. Swipe up for Mode selection.

Current Mode Settings
Access and make changes to the settings of the mode you are currently in.

Microphone Active

Battery Level Indicator
Displays approximate power left on the battery. Battery blinks when almost empty.

Gyro Stabilization (On)

Zoom Controls
Tap the (+) or (-) magnifying glass icons to change the digital zoom factor.

Current Shutter Speed Details

Go to Settings
Tap this icon to access and make changes to the General System Settings.

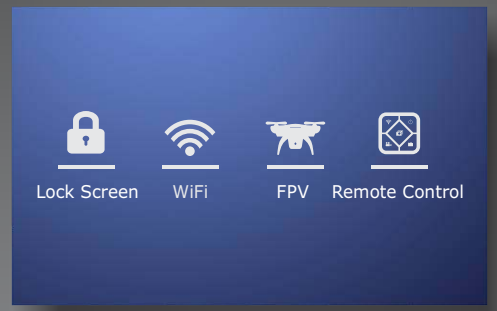
SJCAM

SJCAM SJ10 PRO

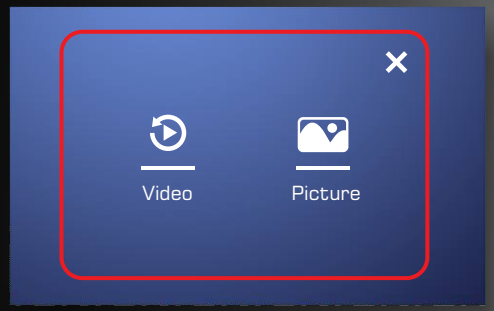
SJCAM

SJ10 PRO

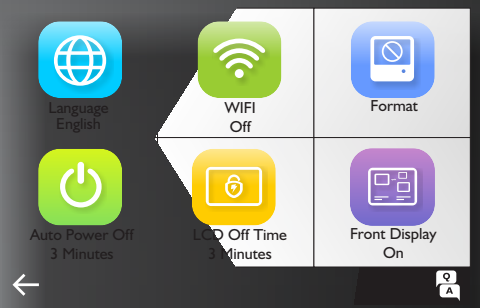
Toggles Screen

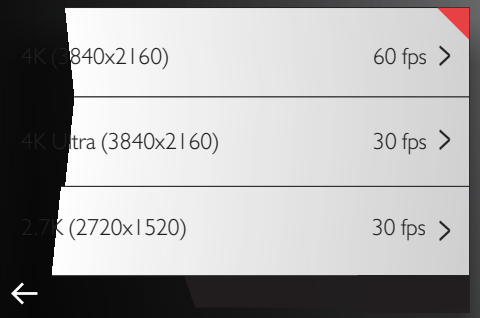


Playback Options



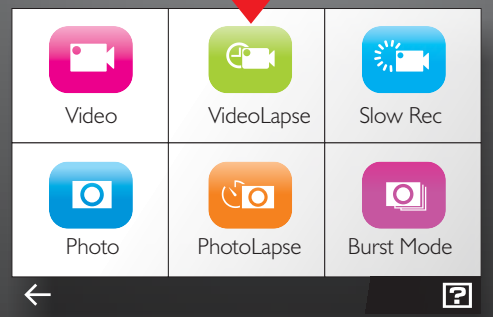
General Settings





Resolution Options

Mode Settings



Mode Selection

← Goes back to the Main Screen

More information on Modes

Common Questions and Answers

Toggles Screen

To get here,
swipe down from top.

Lock Screen

Lock Screen

Turns off the display and disables the touchscreen to avoid accidental taps.
Swipe the key icon to the lock to enable the touchscreen again.

WiFi

WiFi Toggle

Enable or disable the WiFi by tapping this and setting it.

FPV

FPV

Enable or disable FPV (First-Person View) via a special cable.
Cable sold separately.

Remote Control

Remote Toggle

Enable the remote by tapping this and setting it to ON.
You will also see the Pair SJRemote option here.

Swipe-up Handle

Swipe Up to return to Main Screen

Swipe this up to hide the Toggles Screen

SJCAM

SJ10 PRO

Playback Screen

Elapsed Time
Shows how much of the file is being played

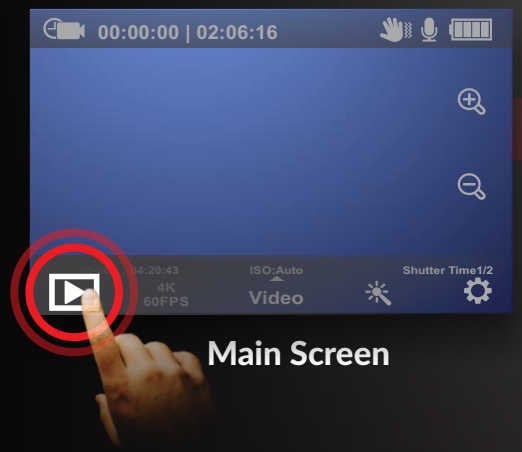
Go to previous file
Tap or swipe right to get to the previous file.

Back to File Gallery
Returns to the file selection screen.

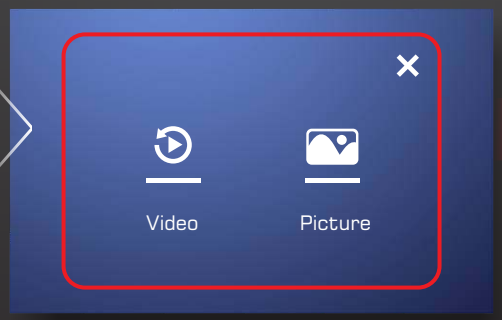
File name displayed here.

Battery Status Indicator
Shows how much power is left.

Go to Next File
Tap or swipe left to get to the next file.



Main Screen



File Type Selection

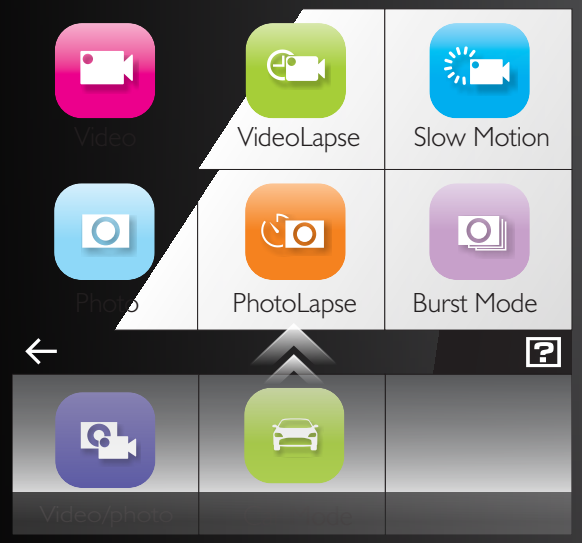
File Selection

SJCAM

SJCAM

SJ10 PRO

Mode Selection



Exit to Main Screen
Tap the back-arrow icon to exit.

Hints, Tips, & FAQ
For more information, tap the [?] icon on the lower right.

To get here,
tap this, or swipe up.

Video — Mode for recording videos.

VideoLapse — Timelapse photography stitched on-cam to produce a video.

Slow Motion — For recording video in slow motion.

Swipe UP to access Video+Photo, and Car Modes.

Photo — Still photograph mode.

PhotoLapse — A series of still photos for creating timelapse. Each photo will have its own file.

Burst Mode — Fast multiple succession of snapshots, choose the number of photos desired (Max: 10).

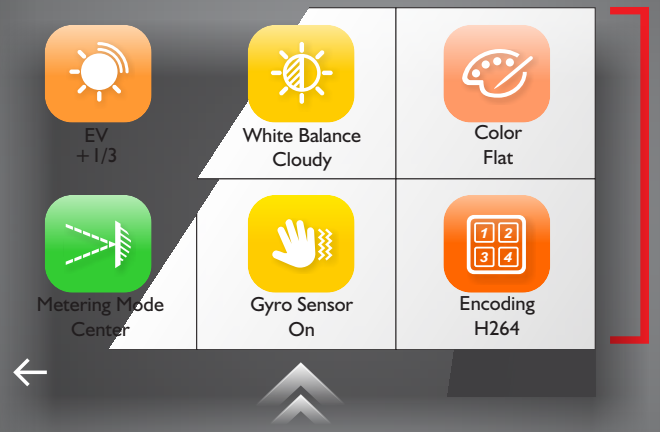
Photo+Video — For recording video while a sequence of photos is taken at a set interval.

Car Mode — Automatically starts the camera and begins recording once the engine is started (Car Charger Cable Accessory required).

SJCAM

SJ10 PRO

Mode Settings Screen



Tap this arrow icon to exit.

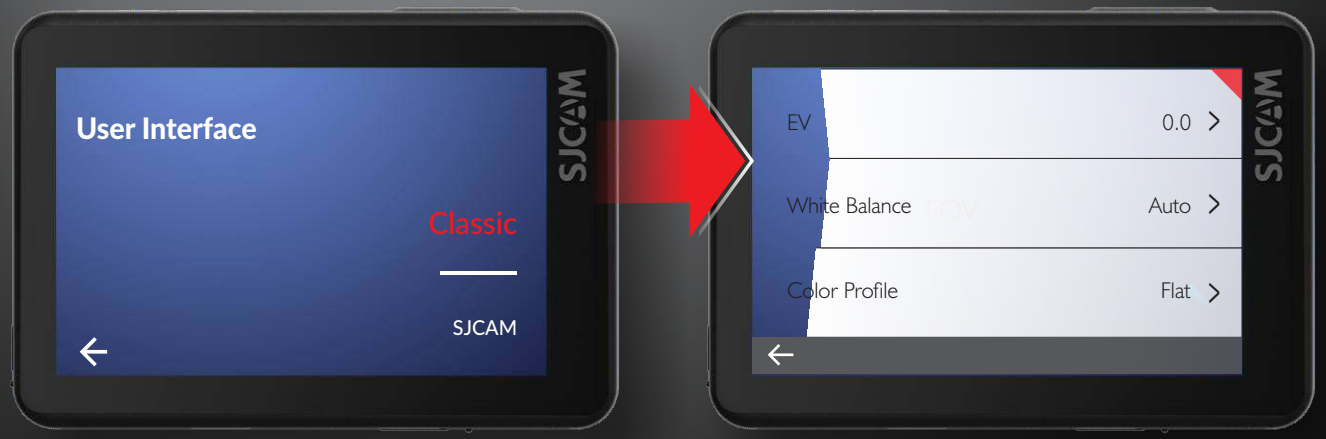
Scroll up for more Mode Settings

Current Menu Options

Depending on what mode you are in, the menu options will vary. All the options for the particular mode will appear by scrolling down for other items.
Once set, the settings will be the same for that particular Mode every time you go back until you change it again.

To get here, tap this.

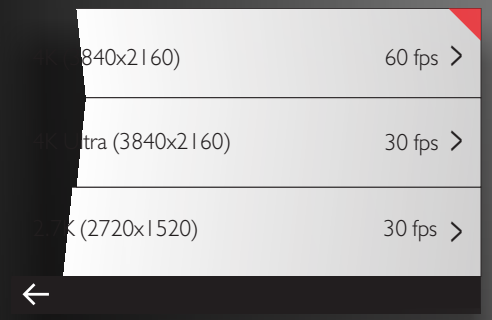
You can switch to text-only menu by going to General Settings and choose "Classic" in User Interface options.

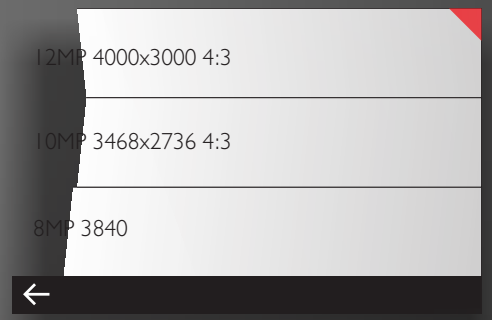


SJCAM

SJ10 PRO

RESOLUTION SELECTION





Video Modes

4K • 3840x2160
- Framerates: 24, 25, 30, 50, & 60 fps

4K Ultra • 3840x2160
- Framerates: 24 & 30fps

2.7K • 2720x1520
- Framerates: 24, 25, 30, 50, & 60 fps

1440p • 2560x1440 •
- Framerates: 24, 25, 30, 50, & 60 fps

1080p • 1920x1080
- Framerates: 24, 25, 30, 50, 60, & 120 fps

1080p Ultra • 1920x1080
- Framerates: 50 & 60 fps

720p • 1280x720 • 240fps

Photo Modes

12MP • 4000x3000 • Aspect Ratio 4:3

10MP • 3648x2736 • Aspect Ratio 4:3

8MP • 3840x2160 • Aspect Ratio 16:9

8MP • 3624x2448 • Aspect Ratio 4:3

5MP • 2592x1994 • Aspect Ratio 4:3

3MP • 2048x1536 • Aspect Ratio 4:3

2MP • 1920x1080 • Aspect Ratio 16:9

IMPORTANT!
To ensure you get the full potential of your SJ10 PRO, it is very strongly advised that you use at least a Class-10 U3 microSD card of a known brand, purchased from a reputable seller.
This camera model uses a high-performance processor which requires writing image data at high speeds.
Using a low-speed card may result in erratic camera performance; the camera may overheat, and photos/videos may have problems being recorded.

SJ10 PRO supports microSD cards up to 128GB, and can read and write in either a FAT32 or ExFAT filing system.

MODE SETTINGS - Page 1

EV
+1/3

EV • *Exposure Value* - Adjust the exposure for the amount of light allowed in. Set this value low to compensate if the scene is too bright; set high when too dark. High EV takes longer for images to be taken, and subject may blur if moving.

White Balance
Cloudy

WHITE BALANCE • Adjusts the color temperature of the recording to compensate for ambient lighting.

Power On Record
Off

POWERON RECORD • Sets whether the camera automatically begins recording once the camera is turned on. This feature is for video mode only.

Color Profile
Flat

COLOR PROFILE • You are given 2 preset choices: SJCAM - Vivid, and Flat. Choose Flat to preserve color dynamics; SJCAM - Vivid to enhance colors.

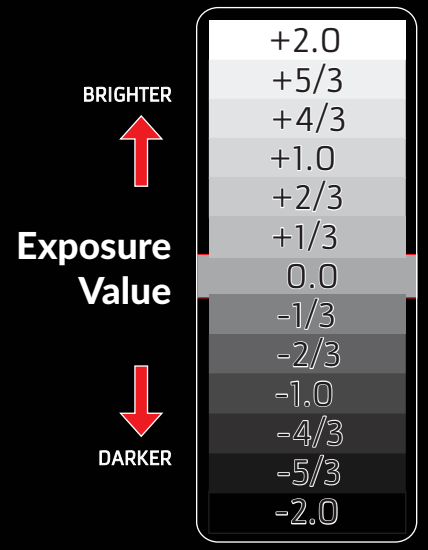
Metering Mode
Center

METERING • Tells the camera which portion of the scene takes priority when setting the brightness level of the whole image. Options: Average, Center Weighted, or Spot.

Gyro Sensor
On

GYRO SENSOR • Enable the Gyro Sensor to smoothen out shakiness during recording. Disable the Gyro Sensor when not needed, to gain full field-of-view of the set resolution.

EV works by controlling how much light is allowed in.



HINT: **You will know if the Gyro Sensor is active when you see hand icon near the battery status display.**

MODE SETTINGS - Page 2

Video Quality
Normal

ENCODING • H.264 is a standard for writing video files, high compatibility with video players. H.265 is a newer standard that compresses video much better for smaller file sizes and faster streaming, may require you to update your video player's codec.

Volume
8

VOLUME • Sets the microphone sensitivity for how loud or how soft sound is recorded into the video.
CAUTION: Setting this too high in small, enclosed spaces may distort the recorded audio.

Sharpness
Normal

SHARPNESS • Sets how much image detail is saved.
A higher setting will produce sharper images at the expense of file size.
Setting this low will smoothen annoying closely-knit fine lines.

Distortion Correc...
On

DISTORTION CORRECTION • Enable this setting to remove the fisheye effect that is inherent in wide-angle lenses. NOTE: Minor cropping of the image will occur for this to be possible.

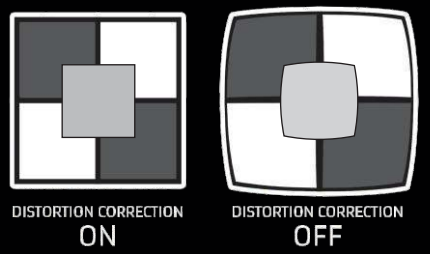
Loop Recording
Off

LOOP RECORDING • Allows continuous recording when the memory card is full by recording over the oldest file in the folder.

File Size
5 Minutes

FILE SIZE • Manually sets the limit of file size length..
NOTE: Cards formatted in FAT32 will have a maximum file size of 4GB, regardless of resolution or length of recording. Your SJ8 PRO supports ExFAT file format which removes this limitation.

A visual explanation of how Distortion Correction works.



CAUTION: When using your camera as a dashcam, use a car charger cable and remove the internal battery to avoid overcharging/overheating.

WARNING!
Operating your camera while driving a vehicle is potentially dangerous. It is strongly advised that you setup your camera BEFORE your trip.

MODE SETTINGS - Page 3

Encoding
H264

VIDEO QUALITY • Gives you the option of recording video in high bitrate for more image detail per frame, but will result in much bigger file sizes.

Photo Quality
Fine

PHOTO QUALITY • Presets for making adjustments on how much detail is written in photos. Options: Fine, Standard, and Economy.

ISO
6400

ISO • Adjusts the image sensor's sensitivity to light. A higher ISO will collect more light at the expense of adding noise (grain) into the image when set too high.

Audio
On

AUDIO • Enables or disables sound recording on your video footage.

Time Stamp
Off

TIME STAMP • When enabled, will display the date and time of your recording. Great when doing timelapse videos, or for making a documentary. Otherwise just turn it off.

Shutter Speed
1/500

SHUTTER SPEED • Controls how long the image sensor stays "open" to capture an image. Fast shutter speeds allow less light, freezing movement better. Slow shutter speeds allow more light but may blur moving objects. Very long exposure settings are best for night photography.

METERING OPTIONS

AVERAGE
Prioritizes the whole scene's lighting.

CENTER
Prioritizes the middle part of the frame.

SPOT
Prioritizes only a very small portion of the center of the scene.

MODE SETTINGS - Page 4

RAW
Off

RAW • Enables or disables saving pictures as image sensor data onto a file (.RAW), preserving image details for editing later. Requires a converter for use with image manipulation software.
NOTE: RAW is not readily viewable until converted or output to JPEG.

VideoLapse
1 Second

VIDEOLAPSE • Takes a series of photos at set intervals to create a video file that is immediately playable without requiring to stitch each image together.
This setting is only available in VideoLapse mode.

Shutter Speed
2X

SLOW MOTION • Speeds up very slow objects or scenes such as sunsets for playing back in standard speed to create a video that shows very slow movement.
This setting is only available in Slow Motion mode.

Photolapse Interval
1 Second

PHOTOLAPSE INTERVAL • Sets how far apart each frame is recorded. Longer intervals make slow moving objects like clouds appear to move much faster than short intervals.

Some menu items have screen hints to make it easier to understand and use.

H.265
High Efficiency Video Coding

H.265, also known as HEVC (or High Efficiency Video Coding), is a new industry standard in video encoding which writes much smaller video filesizes without compromising image quality.
HEVC is created so that large video files can stream much faster over networks, and have less storage requirement.

GENERAL SETTINGS - Page 1

Language
English

LANGUAGE › Options for system language.

WiFi
Off

WIFI • Switches WiFi communication to app on or off. When active: scan networks, sele
camera's SSID and then connect on your phone before opening the SJCAM app.

WiFi Frequency
2.4 GHz

WIFI FREQUENCY • Switch from either standard 2.4GHz, or 5GHz (faster and farther reach).

Format

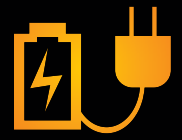
FORMAT • Completely erases everything on the memory card, then sets it up as a new drive. SJ8 PRO supports both FAT32 and ExFAT. Format the card to ExFAT on your desktop whenever possible, to allow recording files more than 4GB in size.

Auto Power Off
5 Minutes

AUTO POWER OFF • Automatically turns the camera off at a preset time.
Works only if the camera is on standby and not recording.

LCD Off Time
3 Minutes

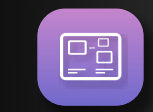
LCD OFF TIME • Automatically turns the display off at a preset time. To wake up the display, simply tap the screen or short-press any button once.



POWER-RELATED TIPS

- Set the Auto Power Off to 3 minutes to get the most out of your battery's charge. If no activity is detected within this period, your camera will power off.
- Go to LCD Off Time and set it to the shortest possible time. Configure the lightset so you know whether you're recording or not.
- Plan your video recordings ahead to maximize battery power.
- When recording, avoid constantly checking the LCD to see if the camera is running. LCDs use up a lot of battery power. Use the indicator lights instead to know the status.
- Your camera uses a Lithium battery, you can charge it even if you only used half the capacity.
- Get a charger and spare battery, and interchange between batteries to relieve your current one from stress of constant-use.
- For faster charging, turn the camera off while it is plugged in.

GENERAL SETTINGS - Page 2



Front Display
On

FRONT DISPLAY • Enables or disables the small front LCD when not needed.

Indicator Lights
On

INDICATOR LIGHT • Enable or disable the status indicator light on the camera.

Keypad Tone
On

KEYPAD TONE • Enables or disables system sounds as an audible indicator of status and button presses.

Rotate
Off

ROTATE • Flips the recording 180-degrees. Turn this on when mounting the camera in an upside-down position such as on a car windshield or bike handlebar to keep the screen right side up.

Brightness

BRIGHTNESS • Screen brightness adjustment. Set to max when in bright daylight; or dim, when in the dark. Tap the X on upper right corner to exit.

Color Temperature

COLOR TEMPERATURE • Sets the screens color temperature. Slide to the left for warm (reddish), slide right for cooler (bluish). Tap the X on upper right corner to exit.

SJCAM

SJ10 PRO

GENERAL SETTINGS - Page 3

External Microphone
Off

EXTERNAL MICROPHONE • Enables or disables external microphone.
External microphone must be inserted first into the USB slot (sold separately).

Date / Time

DATE / TIME • Sets camera system date and time. Files will be labeled according to the setting here. Date / Time will also appear when Time Stamp is enabled.

Gimbal Control
Off

GIMBAL CONTROL • Enables or disables camera buttons being controlled from the gimbal.

Frequency
60Hz

FREQUENCY • Sets the screen refresh rate. This setting is dependent on country's electricity Alternating Current (AC) standards.
May also be used to counter screen flicker or wagon-wheel effect.

Default Setting

DEFAULT SETTING • Resets all the camera's settings to factory defaults.

Display ISO
Off

DISPLAY ISO • Enables or disables displaying ISO setting information on the main screen.

CAUTION:

- Make sure the grey rubber seals behind the access doors are present, aligned and set properly.
- Check for hair, dirt, dust, or other debris that may get caught between the doors and the camera body as they may cause a slow leak that may eventually flood the inside when fully submerged.
- Always check that both the battery and USB port doors are closed shut all the time.
- Always wash the camera housing with clean freshwater after every dive to rinse off any salts or other contaminants. Keep both access doors closed while doing this.
- Wipe off excess water with a clean cloth then air-dry. Once dry, open and clean the doors.

Note: For dives deeper than 5 Meters, it is important to use a waterproof housing specifically designed for the S10. Sold separately.

SJCAM

SJ10PRO

GENERAL SETTINGS - Page 4

User Interface
SJCAM

USER INTERFACE • Options to switch to standard text-only or colored icon-based user interface.

Version

VERSION • Shows the version number of the installed firmware, including the date of installer's release.

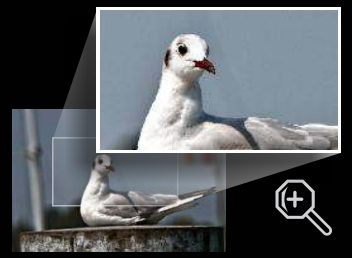
Q
A

You can access the Frequently Asked Questions and answers by going to General Settings screen and tap this Q&A icon on the bottom right.

Scroll up for more.

DIGITAL ZOOM

You can zoom in and out of your scene by tapping the zoom controls on the main screen. Note that this is a digital zoom, and only performs a crop of the actual image.



ZOOM IN

ZOOM OUT

SJCAM

SJ10 PRO

TROUBLESHOOTING

IF SOUND IS DISTORTED
Microphone volume is too loud. Lower the microphone's sensitivity level to keep the audio from distorting.

IF FILES NOT IN CORRECT ORDER
The system time has been reset. Check the camera's system time by going to General Settings, Date & Time, and adjust to your current time. This mostly happens when the battery is removed for a long period.

IF NO FILE FOUND
System cannot read the storage media. Ensure that the card is properly installed. Card should either be formatted to FAT32 or ExFAT (suggested).

IF CAMERA TAKES TOO LONG TO START
Possibly a firmware installation file is in the memory card and needs to be removed.

IF SLOW CARD WARNING
Memory card installed is below the recommended card type. Replace with a fast Class 10 card, U3-type recommended.

IF VIDEO RECORDING TOO SHORT
Memory card is not compatible with the camera. Replace card with the appropriate speed type.

IF CAMERA KEEPS REBOOTING
Possibly a firmware installation file is in the memory card and needs to be removed.

IF CAMERA DOES NOT TURN ON WHEN USING BATTERY
Check that the terminal contacts at the end of the battery compartment are not bent or dislodged. If this is the case, contact SJCAM support.

FILE MANAGEMENT

Transfer files from your camera by using any of these 4 methods.

1. Via USB cable connected from your camera's USB-C slot to a Windows or Mac computer:
   a› Connect the USB-C cable, choose “Mass Storage Device” on your camera.
   b› Your device will show as a drive on your File Manager (Explorer on Windows; Finder in OSX)
2. Via WIFI through the SJCAM Zone App:
   a› Connect your camera to your phone: Device Settings>Wifi>Choose your camera
   b› Go to the app, tap the Gallery icon, then download the files you wish to transfer by tapping the Down arrow icon next to each file
3. By using a microSD card adaptor:
   a› Power off your camera and remove the microSD card.
   b› Insert it to a card adaptor and plug it to your computer.
   c› Your card will show as a drive on your File Manager.
   d› When you're done transferring files, right-click the drive > choose “Eject” before removing the card from your computer.
4. By transferring the microSD card to your smartphone with removable storage:
   a› Power off your camera and remove the microSD card;
   b› Insert the microSD to your mobile device;
   your microSD card will show up as a drive on your mobile device's file manager;
   c› Transfer the files you choose to your mobile device;
   d› When you're done, “eject” the microSD card by choosing “Unmount”

Optional: Format the microSD card on your camera to remove all files inlcuding those added by your mobile device.

SJ10 PRO

Get the app.

Available on the App Store

SJCAM ZONE

ANDROID APP ON Google play

Follow us

Visit us at www.sjcam.com

For technical assistance, go to support.sjcam.com