SJCAM

SJ7 STAR

TOUCH SCREEN

GYRO ANTI-SHAKE

16 MP

4K 30 FPS

User's Manual

FW Ver1.15

ENGLISH

SJCAM

INTRODUCTION

*We believe everyone has a dream. Our mission is to make you express yourself,
your vision and dreams in order to make them real, and share them with others.*

*In the last 10 years of experience in Research and Development and Commercialization,
we have gained world recognition from customers and retailers,
with the ambition to give people the possibility to create, explore and empower their dreams.
Having our own factory, controlling the whole production process, and a facility
with more than 500 employees, makes us more versatile and able to reach the market fast,
ensuring that the highest quality standards are met. It is all about dreams.
Dare to join the SJCAM Revolution.*

-SJCAM CEO

SJCAM

Congratulations on your new SJCAM Action Camera!

We know you're excited to use your SJ7 STAR, please take time to read this manual before doing anything with it. This is the very first true-4K resolution SJCAM, and 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.sjcamhd.com/firmware.
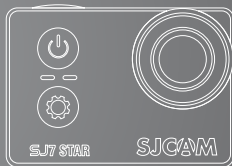
CAUTION!

1. This is a high-precision product. Do not drop.
2. Do not expose the unit to strong magnetic fields, such as magnets, electrical motors, 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. Do not submerge the camera without putting it in the included waterproof case.
5. Avoid extended periods of battery charging. Keep it away from children and pets while charging to avoid accidents.
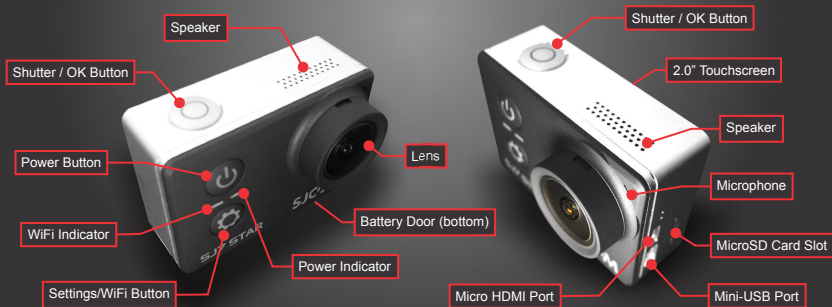
Model: SJ7 Star
Type: Aluminum Body Sports Camera
Type of Camera: 4K
Chipset: Ambarella A12S75
Sensor: Sony IMX117 12MP
Max External Card Supported: Micro SD 128GB (UHS-3 High Speed suggested)
Screen size: 2 inch LCD Touchscreen
Battery Type: Removable
Capacity: 1000mAh
Power Supply: 5V 1A
Charge way: AC adapter, Car charger, USB charge by PC
166 degree wide angle lens
Decode Format: H.264
Video format: MOV,MP4
Video Resolution: 1080P (120fps),1080P(30fps),1080P(60fps),1440P (2560 x 1440),1440P (30fps),
1440P (60fps),2.5K (30fps),2.5K (60fps),2.7K (30fps),2160P (2880 x 2160),4K (25fps),4K (30fps),
720P (120fps),
720P (30fps),720P (60fps),960P (120fps),960P (30fps),960P (60fps)
Image Format : JPEG
Video Output: HDMI
Audio System: Built-in microphone/speaker (AAC)
White Balance: Auto,Cloudy, D4000, D5000, Daylight, Fluorescent, Incandescent, Underwater
WIFI: Yes
Image Stabilization: Yes
Remote Control capable: Yes
Interface Type: HDMI, USB 2.0, TF Card Slot
Language: Czech,Danish,English,French,German,Hungarian,Italian,Japanese,Korean,
Polski,Portuguese,Romanian,Russian,Simplified Chinese,Slovak,Spanish,Traditional Chinese

SJ7 STAR   SJCAM

PARTS OF YOUR CAMERA

Speaker

Shutter / OK Button

Shutter / OK Button

Power Button

WiFi Indicator

Settings/WiFi Button

Power Indicator

Battery Door (bottom)

Lens

Shutter / OK Button

2.0" Touchscreen

Speaker

Microphone

MicroSD Card Slot

Mini-USB Port

Micro HDMI Port

SJCAM SJ7 STAR

SJ SMART REMOTE (Optional)

SJCAM

WIFI On/Off Switch

Camera-Off Button

Burst Shot Button

Record Video Start/Stop

Shutter Button

Once your Remote is paired, you will never need to pair it again. Everytime the SJ7 STAR is turned on, your SJ Remote can control your camera.

The Remote is tested to work at a maximum distance of 30 feet, or 10 meters, Line-Of-Sight.

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.

Remote pair?

Please press 2 keys

To pair your remote to your LEGEND: Swipe down from the top > Select Remote Control choose "Remote Control Pairing". A picture instruction will appear. Press the Video and the Photo buttons on the Remote simultaneously. "Pairing Completion ID" will show.
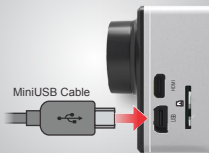
Removing the SJ7 from the Waterproof Case.

Remove the camera from the waterproof case by lifting the clasp from the front side of the case, following the steps shown above.

Once free, swing the backdoor open, then pull the camera out from the waterproof case.

Charging your camera using the MiniUSB cable.

MiniUSB Cable

Plug the MiniUSB cable to the slot on the side of the camera as indicated above, and the other end to a USB wall charger with an output of 5V 1A, or plug it to a computer.

Removing the battery.

Remove your battery by pressing the button and sliding the lock at the bottom of the camera to release the compartment door.
Pull the battery out by the flap, plug it to an External Dual Charger Accessory (not shown, sold separately).

SJCAM

Powering ON/OFF your SJ7

Press and hold the Power/Mode button to turn your camera on.
You will hear a chime, indicator LEDs will light up, and the screen will display the SJCAM logo.
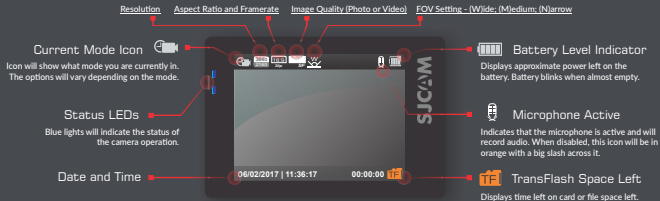To turn off your camera, press the Power button once.

Inserting / Removing Memory Cards

Class 10 or higher MicroSD card.

Insert a MicroSD card as shown in the illustration above, with the label facing the touchscreen LCD, until it clicks into place. To remove, just push it in gently and the card will eject.

NOTE: To make sure you do not lose any data, only remove or insert your card while the camera is turned completely off.
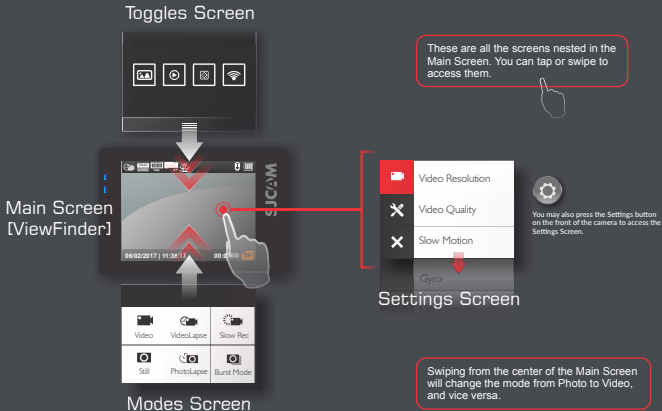
SJCAM

The Main Screen

Resolution   Aspect Ratio and Framerate   Image Quality (Photo or Video)   FOV Setting - (W)ide; (M)edium; (N)arrow

Current Mode Icon
Icon will show what mode you are currently in. The options will vary depending on the mode.

Status LEDs
Blue lights will indicate the status of the camera operation.

Date and Time

06/02/2017 | 11:36:17   00:00:00

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

Microphone Active
Indicates that the microphone is active and will record audio. When disabled, this icon will be in orange with a big slash across it.

TransFlash Space Left
Displays time left on card or file space left.

Other Main Screen Icons

Super Fine	Wide FOV	Microphone Off
Fine	Medium FOV	Gyro Antishake On
Normal	Narrow FOV	Motion Detection

The Nested Screens

Toggles Screen

These are all the screens nested in the Main Screen. You can tap or swipe to access them.

Main Screen
[ViewFinder]

06/02/2017 | 11:34

Settings Screen

Video Resolution

Video Quality

Slow Motion

Gyro

You may also press the Settings button on the front of the camera to access the Settings Screen.

Modes Screen

Video

VideoLapse

Slow Rec

Still

PhotoLapse

Burst Mode

Swiping from the center of the Main Screen will change the mode from Photo to Video, and vice versa.

The Toggles Screen

Photo Gallery Playback
Tap this to open the Photo Gallery, tap an image to view in full screen. Use the Left and Right arrows to view previous or next image.

Video Gallery Playback
Tap this to open the Video Gallery, tap an image to view in full screen. Use the Left and Right arrows to view previous or next video.

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

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

Swipe Up to return to Main Screen
Swipe this up to hide the Toggles Screen

**To get here,
swipe from the top.**

The Playback Screen

Back to Main Screen
Visual indicator that you are in Playback mode.

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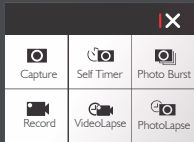
Go to Next File
Tap or swipe to get to the next file.

Delete Current File
Tap to delete the file currently shown on screen.
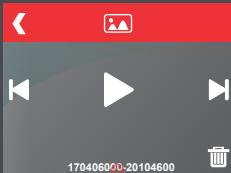
170406000-20104600

File Name

To get here, swipe from the top.

The Modes Screen

Capture	**Self Timer**	**Photo Burst**
Record	**VideoLapse**	**PhotoLapse**

Capture — Still photograph mode.

Self Timer — A preset delay to time the shutter release to start recording or taking photos.

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

Record — Mode for recording videos

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

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

✕ Exit to Main Screen
Tap this X icon to exit.

To get here, swipe up.

The Settings Screen

Current Mode Icon
Icon will show what mode you are currently in.
The options will vary depending on the mode.

General Settings Button
Tap the icon to go to the General Settings.
Changes you make will reflect on all modes.

Exit to Main Screen
Tap this X icon to exit.

Video Resolutions

Video Quality

Slow Motion

Gyro Sensor

Scroll UP for more options
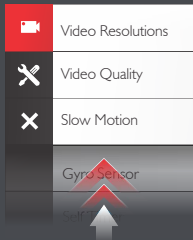
Current Menu Options
Depending on what mode you are in,
the menu options will vary. All the options
for the particular mode will show on this
side, scroll down for other items.
Once set, the settings will be the same for
that particular Mode everytime you go back
until you change it again.

To get here, tap this.

You may also press the Settings button
on the front of the camera to access the
Settings Screen.

Photo Size
Photo Quality
Long Exposure
Photo Stamp
Self Timer
Photo Burst
Timelapse Photo
Sharpness
AWB
EV Value
ISO
Metering

PHOTO SIZE › Changes the size of still photos that will be recorded. Of course, the bigger the size the more detailed your pictures are, at the expense of filesize.

PHOTO QUALITY › Refers to how much compression the output image will have.
The higher the setting the bigger the file is, and will contain more detail.

LONG EXPOSURE › Sets how long the sensor collects light through the lens.

PHOTO STAMP › When enabled, will display the time and date on your photos.

SELF TIMER: Sets a delay timer to trigger the shutter at the set number of seconds.

PHOTO-BURST : Fast multiple succession of snapshots, choose the number of photos desired (Max: 10 consecutive shots).

TIMELAPSE PHOTO: Sets the interval between a long sequence of shots.

SHARPNESS › Changing the sharpness setting will make your images either crisper or smoother, adjust according to your preference.

AWB (AUTO WHITE BALANCE) › Adjusts the color temperature of the snapshot/recording to compensate for ambient lighting.
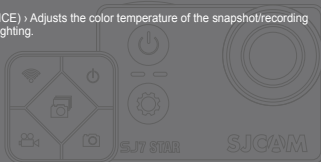
Navigating the menus using the SJ7 buttons

When in the settings and other menu screens, you may also move through the items by using these buttons:

Select / OK

Back / Exit

Short Press: Scroll Down
Long Press: Scroll Up

Available in FW ver1.13

EV › Exposure Value - Changing EV compensates for the amount of light that is allowed in. You can change this value to a lower setting if the scene is too bright, to compensate. Or higher, if it is too dark, but still depends on your desired outcome.
A higher EV will take longer for a photo to be taken, and will add blur to photos as they take longer to expose.

ISO › Sets he image sensor's sensitivity to light. Choose "Auto" on your camera if you are not familiar with this setting. Depending on the lighting conditions, use the lowest ISO whenever possible, as higher settings will introduce more noise while pixel sensitivity also goes up. Adjust depending on your preference.

METERING › Prioritizes the brightness level of specific parts of the scene depending on the Metering Mode that is used: Center Weighted, Multi, or Spot.

Photo Size
Photo Quality
Long Exposure
Photo Stamp
Self Timer
Photo Burst
Timelapse
Sharpness
AWB
EV Value
ISO
Metering

METERING MODES

CENTER

MULTI

SPOT

VIDEO RECORD - Page 1

VIDEO RESOLUTIONS : A higher resolution will have more detail in your video at the expense of file size. A lower resolution has a smaller filesize but will have less details in your video. Conversely, a higher resolution will contain more detail.
Note: FPS (Frames Per Second) is part of the options in video resolution:
The higher the FPS, the more images will be displayed per second, and the smoother the movement in the video is, at the expense of filesize.

VIDEO QUALITY : Sets how much detail is recorded in the video.
Available in 3 presets: Super Fine, Fine, and Normal.

FOV : Field Of View. The wider the setting, the more parts of the scene are included in the recording. NOTE: When using the gyro, 1080p in 30 or 60fps will *not* have FOV options as they conflict with stabilization.

AUTO LOW LIGHT : When on, the image sensor will compensate for low light, at the expense of framecount. Turning the feature off will lock the framecount to the selected framerate (FPS) regardless of lighting conditions.

SLOW MOTION: Sets the framerate to run at the set speed. When recording in higher FPS, video will appear slow.

GYRO SENSOR : Sets the gyro sensor to stabilize the movement seen in the frame.

DETECTION : Sets the camera to record everytime a movement is detected.

DUAL FILES : Will save 2 versions of the recorded video, one in the selected resolution and another in low resolution (768x432pixels) for use in editing.

VIDEO STAMP : When enabled, will display the date and time of your recording.

TIMELAPSE VIDEO : Sets the time interval between shots; recorded files will have a single video output (MP4) instead of multiple image files.

Navigation menu (left):

- Video Resolutions
- Video Quality
- FOV
- Slow Motion
- Auto Low Light
- Gyro Sensor
- Detection
- Dual Files
- Video Stamp
- Timelapse Video
- Loop Record
- Car DV
- Microphone Volume
- Sharpness
- AWB
- EV Value
- ISO
- Metering

LIST OF AVAILABLE RESOLUTIONS:

- 4K 30fps 16:9
- 4K 25fps SuperView
- 2160p 30fps 4:3
- 2.7K 30fps 4:3
- 2.7K 30fps SuperView
- 2.7K 30fps 16:9
- 2.5K 60fps 16:9
- 2.5K 30fps 16:9
- 1440p 60fps 4:3
- 1440p 30fps 4:3
- 1080p 120fps 16:9
- 1080p 60fps 16:9
- 1080p 30fps 16:9
- 1080p 60fps SuperView
- 1080p 30fps SuperView
- 960p 120fps 4:3
- 960p 30fps 4:3
- 720p 240fps 16:9
- 720p 120fps 16:9
- 720p 60fps 16:9
- 720p 30fps 16:9
- 720p 120fps SuperView
- 720p 30fps SuperView

TIP: For a more stable video or photo, turn on the Gyro Sensor. You will know if it's active when you see a blinking hand on the upper right hand of the Display.
[Works in certain resolutions only, FOV off]

LOOP RECORD › Auto-saves your video in small sections, depending on selected length. It will record over your oldest video once there is no more space on your memory card.)

CAR DV : Enables powering on the camera and auto-record when the engine is started. Requires that the camera is plugged in to a car power adaptor.

MICROPHONE VOLUME : Sets the sensitivity of the microphone.

SHARPNESS › Changing the sharpness setting will make your images either crisper or smoother, adjust according to your preference.

AWB (AUTO WHITE BALANCE) › Adjusts the color temperature of the snapshot/recording to compensate for ambient lighting.

EV › Exposure Value - Changing EV compensates for the amount of light that is allowed in. You can change this value to a lower setting if the scene is too bright, to compensate. Or higher, if it is too dark, but still depends on your desired effect.
A higher EV will take longer for a photo to be taken, and may add blur to videos as each frame takes longer to expose.

ISO › Sets he image sensor's sensitivity to light. Choose "Auto" on your camera if you are not familiar with this setting. Depending on the lighting conditions, use the lowest ISO whenever possible, as higher settings will introduce more noise while pixel sensitivity also goes up. Adjust depending on your preference.

METERING › Prioritizes the brightness level of specific parts of the scene depending on the Metering Mode that is used: Center Weighted, Multi, or Spot.

TIP: When using your camera as a dashcam, use a car charger cable and remove the internal battery to make sure it does not die out while you travel, and to avoid overcharging/overheating the battery.

⚠️ **WARNING:** Operating your camera while driving a vehicle is potentially dangerous. It is strongly advised to set up your camera before your trip.

EV works by controlling how much light is allowed in.

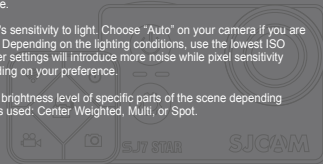|	Exposure Value
BRIGHTER ↑	+2.0
	+5/3
	+4/3
	+1.0
	+2/3
	+1/3
	0.0
	-1/3
	-2/3
	-1.0
	-4/3
DARKER ↓	-5/3
	-2.0

Quick Capture
Delay Off
TV Mode
Light Frequency
Auto Shutdown
Screen Off
Status LED
WiFi LED
TV Out
Beep
Date Setup
Time Setup
Date Format
Language
WiFi
WiFi SSID
WiFi Password
Format
Default Setting
SJ7 STAR (Version)

GENERAL SETTINGS - Page 1

QUICK CAPTURE : Enables automatic recording when the camera is turned on.

DELAY OFF : In dashcam mode, the camera will power down 10 seconds later after the engine is turned off.

TV MODE › Options are NTSC or PAL. The color encoding and Framerate for video recording. Users in the US and Asia use NTSC (60Hz), most other countries use PAL (50Hz) and is the camera's default. Please check what you use in your country.

LIGHT FREQUENCY : For adjusting the framerate frequency (50Hz or 60Hz).
Also used to counter flicker-effects of fluorescent lamps or jello-effect of fast moving objects.

AUTO SHUTDOWN : Time settings to turn off camera when there is no activity.

SCREEN OFF : Sets LCD screen timeout or disables it.

STATUS LED : Enables or disables the LED status indicators.

WIFI LED : Enables or disables the LED status indicator for WiFi.

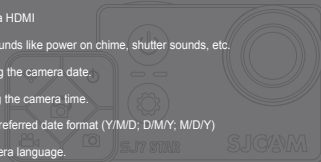TV OUT : Enables output via HDMI

BEEP : Enables camera sounds like power on chime, shutter sounds, etc.

DATE SETUP : For adjusting the camera date.

TIME SETUP : For adjusting the camera time.

DATE FORMAT : Sets the preferred date format (Y/M/D; D/M/Y; M/D/Y)

LANGUAGE : Sets the camera language.

GENERAL SETTINGS - Page 2

WIFI : Options to turn the WiFi on or off

WIFI SSID : Change from default WiFi name to anything you want.

WIFI PASSWORD : For changing the default password when connecting to a mobile device.

FORMAT : Resets the memory card to factory settings, deletes all files.

DEFAULT SETTING : Resets the camera to factory settings.

SJ7 STAR (VERSION) : Shows the current firmware version number that is installed.

FILE MANAGEMENT

You can transfer files from your camera by using any of these 4 methods.

1. **Via USB cable connected from your camera's miniUSB slot to a Windows or Mac computer:**
   a) Connect the USB 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 files added by your mobile device.

Via USB

Via WiFi

Included Accessories

More accessories available on the sjcamhd.com website, sold separately.

Get the app.

SJC**A**M ZONE

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