Siera Electronics



SXM BC200

4G body worn camera

Instruction Manual

1 Getting started

The SXM BC200 records field activities through video, audio and photographs. This manual explains camera operation and configuration through the device and PC management software. 4G, WiFi and positioning functions require a compatible version and the corresponding configuration.

Before first use

1. Charge the battery using the dock or Mini USB connector. Use the specified 5 V / 2 A power supply. The specified charging time is up to 4 hours.
2. Secure the camera with the clip and keep the lens unobstructed.
3. Hold the power button for 3 seconds.
4. Check the date, time, device ID and available storage.
5. Make a short recording and check playback before starting work.



Basic workflow

How to use this manual

Topic	Page
Specifications	2
Controls and indicators	3–4
Recording and playback	5
Camera settings	6–9
System status and upgrade	10
PC management	11–13
Troubleshooting and trademark notice	14

English names in parentheses identify interface controls. Available options depend on the version and installed firmware.

2 SXM BC200 specifications

Feature	Specification
Processing and system	A12A series SoC; embedded Linux
Sensor and display	1/2.9-inch CMOS; 2.0-inch IPS HD display
Lens	170° viewing angle; F2.0 aperture; 2.8 mm focal length; up to 128× digital zoom
Video	1920 × 1080p30; 1280 × 720p30; 640 × 480p30; H.264; MP4 files
Photography	JPG; 32 MP / 14 MP / 12 MP / 8 MP; electronic shutter; automatic exposure and white balance
Audio	High-quality microphone; 16 kHz; AAC compression
Optional 4G	CAT1 / CAT4; live streaming and remote upload; JT808 / JT1078 / GB28181 / SXM
WiFi and positioning	2.4 GHz WiFi, STA/AP; optional GPS and Beidou module; viewing through mobile app or PC software
Battery and runtime	Integrated 5000 mAh; up to 18 hours recording; 10–12 hours in 4G mode; charging up to 4 hours
Storage and connection	Built-in TF card, 32 / 64 / 128 / 256 GB or higher; Mini 5-pin USB; driver-free USB mass storage; dock or Mini USB charging
Lighting and functions	IR and white light; 5–10 m night vision; police red/blue light; guide laser; SOS; up to 60 s prerecord; AES256; secret mode; optional motion detection
Protection and environment	IP66; 2 m drop resistance; operation from −20 °C to +60 °C; relative humidity ≤ 93%
Dimensions and weight	96 × 62 × 34 mm; 207 g

Runtime depends on settings, connectivity and operating conditions. Optional features must be present in the purchased version.

3 Identifying the controls

Identify the buttons before operating the camera. The front view shows the SXM BC200; the diagram groups controls by location to make them easier to identify.



Top
SOS / alarm · Power

Recording side
PTT · Audio · Photo · Video

Connection side
USB · HDMI · Laser / IR · Reset · SIM

Rear
Clip · Display · Menu · Up · Down · Back

Bottom
Charging and expansion interface

Camera and control layout

Connectors and device elements

The side includes the USB connector, laser/IR control, reset and SIM access. The original layout also identifies an HDMI connection. The bottom houses the charging and expansion interface; the rear includes the clip, display and menu, navigation and playback buttons. The front contains the lens, lights and speaker.

Connectors and optional modules may vary with the device configuration. Install the SIM in the corresponding slot on mobile-connected versions.

4 Buttons and indicators

Control	Short press	Long press
Power	Turns the display on or off	3 s to power the device on or off
Video	Starts or stops video; when powered off, turns on and starts recording	Same function as short press
Photo	Takes a photo, including during video or audio	2 s to turn white light on or off
Audio	Starts audio or stops and saves it	Requests intercom on network version
PTT	—	Activates intercom on network version
Laser / IR	Activates the guide laser	Switches to infrared mode
Menu / confirm	Opens settings in standby; confirms selection	—
Up / down	Scrolls through options; opens information in preview	—
Back / playback	Returns; opens local files from preview	—
SOS / alarm	Triggers an alarm video and upload on network version	Marks the current video as an alarm during recording or playback

Status lights

Indicator 1: green = powered on; red = battery charging; blue = network connected. Indicator 2: red = video recording; orange/yellow = audio recording.

Display information

Icons show an alarm-marked file, valid GPS fix, WiFi signal, battery, recording and platform connection. A WiFi exclamation mark means the module is active but not connected. Capacity is shown as free space / total space; the date, time and device ID / user ID also appear.

5 Recording and playback

Power on and off

Hold Power for 3 seconds. When the device is on, a short press controls the display only. If the power-off password is enabled, follow the on-screen request.

Record video

1. From preview, press Video. With prompts enabled, the device vibrates twice and the red recording indicator lights up.

2. Press Video again to stop and save the file; configured prompts are emitted.

3. When powered off, pressing Video turns the camera on and starts recording.

4. For unlit scenes, enable IR: infrared night images are black and white.

Record audio and switch modes

Press Audio from preview to start recording. The orange/yellow indicator lights and the audio status appears. Press again to stop and save. To switch from video to audio, press Audio: video is saved and audio starts. To switch from audio to video, use Video and check the new mode indicator.

Take photos and mark events

Press Photo in standby or during recording. In low light, use IR or white light. Press SOS to trigger an alarm; hold it during recording or playback to mark the current file. Duration is set in Alarm Video; upload requires connectivity and a configured server.

Play files

Press Back / playback from preview. Use Up and Down to choose Video, Audio or Photos; confirm to open the time-period folder and select a file. Confirm to play or view it. Formats are MP4 for video, AAC for audio and JPG for photos. Press Back to return.

6 Video and streaming settings

In standby, press Menu. Select an option with Up / Down, confirm, choose the value and confirm again. Press Back to return to preview.

01 Record resolution

Local video resolution: 1080P30, 720P30 or 480P30. Default: 1080P, 1920 × 1080.

02 Record code rate

Local video quality/bitrate: Normal, Fine or Sfine. A higher value uses more storage.

03 Stream resolution

Resolution transmitted over 4G or WiFi: 720P (1280 × 720), 480P (640 × 480) or 240P (320 × 240). Default: 480P.

04 Stream framerate

Streaming frames per second: 30, 25, 20, 15, 10 or 5 fps. Default: 30 fps.

05 Stream Bitrate

Streaming quality/bitrate: Sfine, Fine or Normal. For 720P, the menu reference is 1.8 Mb/s, 1.0 Mb/s and 800 kb/s, respectively.

06 Record Mode

Boot starts recording when powered on. Manual lets the user decide when to start and stop.

07 Loop Record

With loop recording enabled, older videos are overwritten when memory fills, except files marked as important. When disabled, recording stops when storage is full. Check the setting before work.

08 Record Split

Splits a continuous recording into 3, 5, 10, 15 or 30-minute files. Default: 3 minutes.



Recording settings menu

7 Events and photographs

09 Prerecord

Adds footage captured before recording starts: 7, 15, 30 or 60 seconds. Runs in the background to preserve context before the event.

10 Alarm Video

Alarm video duration: 7 seconds, 30 seconds, 1, 2 or 3 minutes, or manual mode.

11 Alarm video upload

Enables automatic alarm video upload to the server. Requires connectivity, a center connection and the function enabled.

12 Capture Size

Selects photo resolution. SXM BC200 specifications list 32 MP, 14 MP, 12 MP and 8 MP. Select an option available in the device firmware.

13 Capture Mode

Single Shot takes one photo per press. SelfTime triggers a timed photo; choose the available delay, such as 3, 5 or 10 seconds.

14 Timelaps

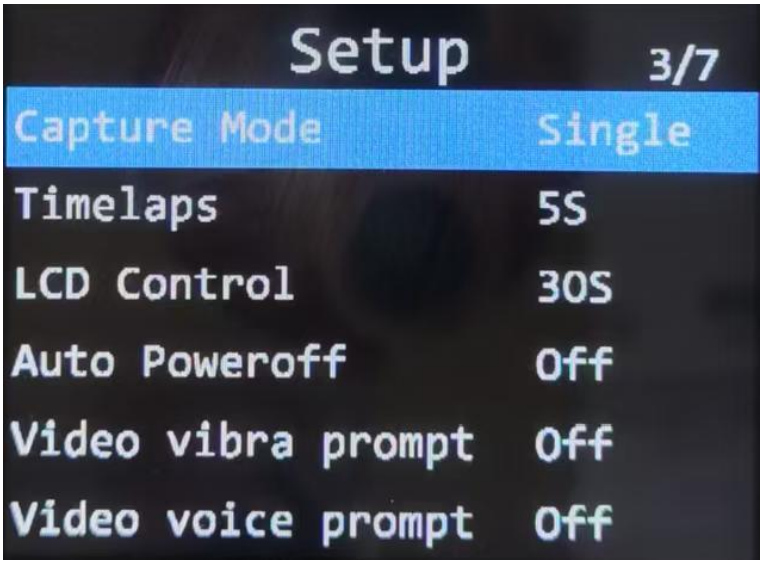
Captures photos at 5, 10, 30 or 60-second intervals to record changes over long periods and support accelerated review.

15 LCD Control

Automatically turns off the display after 30 seconds, 1, 3 or 5 minutes of inactivity. Recording continues while the display is off.

16 Auto Poweroff

Automatic power-off when neither recording nor network streaming is active. Options: disabled, 3, 5 or 10 minutes. Check the selected time.



Event and capture options

8 Prompts and connection and lighting functions

17 Video Vibra Prompt

Periodic vibration recording reminder: 30 seconds or 1 minute.

18 Video Voice Prompt

Periodic voice recording reminder: 30 seconds or 1 minute.

19 Spk volume

Speaker volume: 0, 20, 40, 60, 80 or 100.

20 Vibrate

Enables or disables vibration prompts. Check the response with a test recording.

21 Voice Prompt

Enables or disables voice prompts about operations and device status.

22 IR switching

Manual lets you control IR using the button or menu. Automatic uses the ambient-light sensor to switch to infrared vision as needed.

23 Photoresistor

Light sensitivity: Sfine high, Fine medium and Normal low. Default: Fine. Adjust for ambient lighting and check IR switching.

24 4G

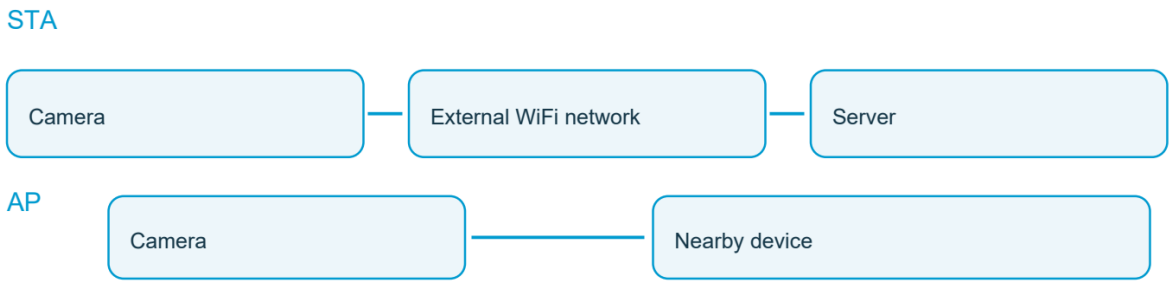
Enables or disables mobile connectivity on compatible versions. Enabling it increases power consumption and reduces runtime.

25 WIFI switch

Enables or disables WiFi. Once enabled, select STA or access point mode.

26 Wifi Model

STA connects the camera to an external network for data upload and management. Hotspot/AP creates an access point for a nearby device to connect directly.



STA and direct AP connection

9 Positioning and security functions

27 GPS

Enables or disables positioning if the module is installed.

28 GPS details

Shows position details when GPS is active and has a valid fix.

29 GPS LOG

Enables or disables track logging. Data supports route, movement and stop review.

30 DEBUG LOG

Enables or disables diagnostic logging: operation details, errors and system status for technical support.

31 Auto Sync Time

Enables or disables automatic date and time synchronization through network or GPS, depending on available services.

32 Default Setings

Option related to default settings. Read the prompt and confirm only when you intend to apply the action shown by the device.

33 Menu Pwd

Enables or disables the menu access password to restrict setting changes.

34 Poweroff Pwd

Enables or disables a power-off password to prevent unauthorized shutdown.

35 Secret

Secret mode: disables the display, status lights and sound or vibration prompts during recording.

36 AES256

Enables or disables AES256 encryption to protect data against unauthorized access.

37 Talkback

Select Group call or Single call on versions with network intercom.

38 Digital Zoom

Enables or disables digital zoom. SXM BC200 specifications state up to 128× magnification.

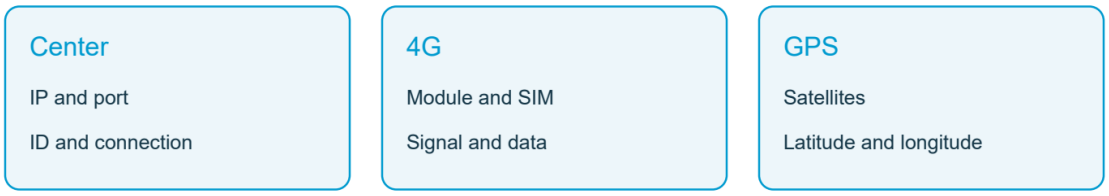
39 Motion Detection

Triggers recording when movement is detected in the field of view. This optional feature is disabled by default. Disable it for normal recording operation.

10 Device system and upgrade

System information

Use the information menu to check the device and module status. Center: IP, ports, device number and connection. 4G: module and SIM detection, signal and data connection. GPS: module, valid fix, satellites, latitude and longitude. WiFi: module, SSID, signal strength and assigned IP. Device: software version and unique ID.



Information for checking connections

Package contents

The reference packing list includes: camera × 1, rear clips × 2, USB cable × 1, power adapter × 1, manual × 1 and charging dock × 1. Check the accessories included in the supplied configuration.

Upgrade firmware

1. Use only the upgrade file for your device, supplied by Siera. Keep the battery charged or power connected.

2. Turn on the camera, connect it by USB and sign in to the management software. Enter USB storage mode.

3. Copy the file to the TF card root. Technical reference filenames are firmware_1204_dvr.bin or firmware_1205_dvr.bin; use only the file specified for your version.

4. Safely eject the drive and disconnect the USB cable. The device restarts and begins the upgrade. Do not interrupt the process.

5. After completion, the device restarts again. Check the new version in System information.

11 PC management software

Management software supports sign-in, password changes, time synchronization, identity and video configuration, 4G/WiFi and server settings, and USB storage access to download files. Communication with the camera uses USB.

Installation and connection

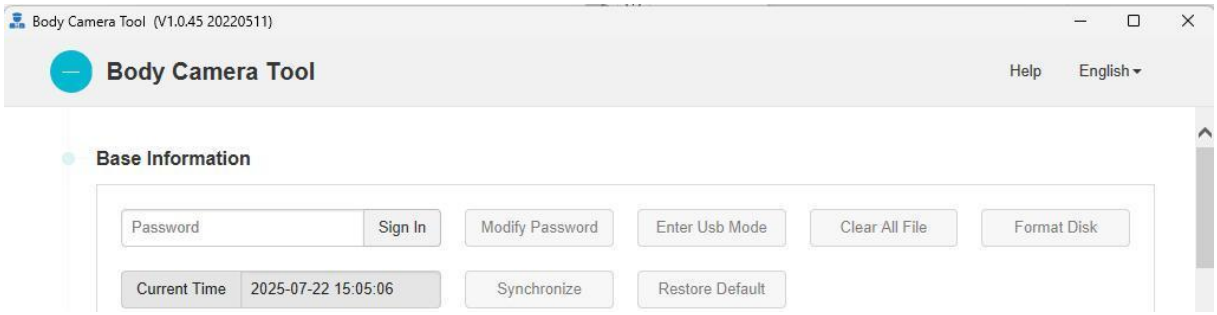
1. Obtain the software installer for your device from Siera. The reference filename is BodyCamera_XXXXXXX.exe.

2. Double-click it or choose Run as administrator.

3. Follow Next to complete installation and select the destination folder when prompted.

4. Open the program from the desktop or Start menu. Turn on the camera and connect it to the PC with the USB cable.

Base information and password



Base information controls

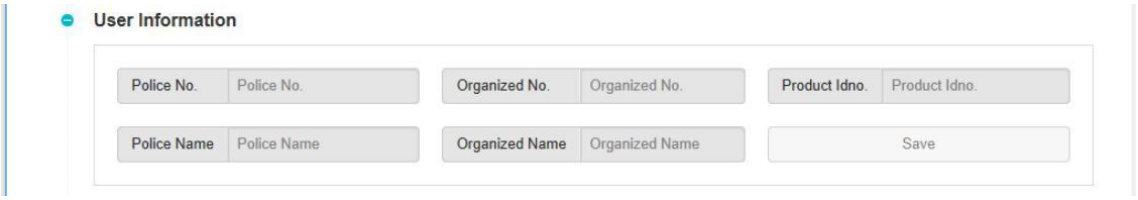
Enter the password and select Sign In. The reference initial password is 000000. Modify Password changes it to a six-digit password. Synchronize sets the camera date and time from the PC. Restore Default restores factory settings. Enter Usb Mode opens mass storage mode.

Clear All File deletes the device videos. Format Disk formats storage. Before using these functions, download and verify the files you need to retain.

12 Identity and video configuration with 4G

User information

Set the officer/user number, unit number, product serial number, user name and unit name. Identifiers associate records with the device and user.



User identification fields

Encoding parameters

Select local video resolution and quality/bitrate. Set the frame rate using the device options: 5, 10, 15, 20, 25 or 30 fps. For network streaming, adjust resolution, bitrate and frame rate separately. If the interface offers channel selection, use the channels available in your configuration.



Encoding settings

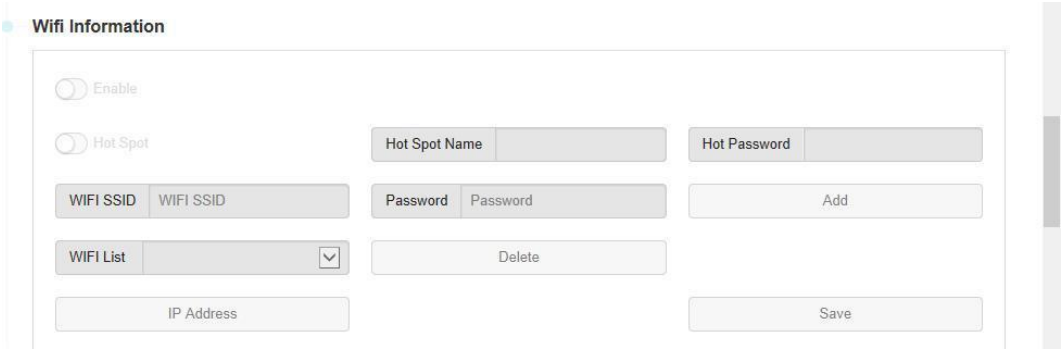
4G parameters

Enable turns 4G on or off. Automatic identification detects carrier access information. For manual configuration, enter APN, User and Password according to the SIM details; user and password are empty by default. Check 4G status after saving the parameters.

13 Connection and file download

WiFi parameters

Enable turns WiFi on. For AP mode, enable Hotspots and set the camera access-point name and password. For STA mode, enter the external network SSID and Password, then select Add. The list supports up to eight networks; select one and use Delete to remove it.



WiFi network configuration

Server parameters

Enable activates the center connection. Set Server to the server IP address, Port to the connection port and Number to the unique device ID reported to the platform. Select Save and check connection status on the camera.

Software language

Use the language selector in the upper-right corner. The reference interface supports Simplified Chinese, Traditional Chinese and English. Other languages depend on the software version. This manual language does not imply the same language is available in firmware or software.

Enter USB storage

1. Sign in and select Enter Usb Mode. Confirm the access request shown.

2. The camera enters mass storage and ends the configuration session. Parameters cannot be changed in this mode.

3. Open the new drive in This PC, copy the files and check that they open.

4. Safely eject the drive before removing the cable.

14 Troubleshooting and support

Unable to sign in

Check that the camera is on, inspect the USB cable, then disconnect and reconnect it. Check that the device is not in USB storage mode and use the configured password.

Parameters do not take effect

Save changes. Some settings require a device restart to take effect. Restart and check the value and operation again.

Device is unresponsive

If the camera freezes or behaves abnormally, press Reset to restart it. After restart, check the date, time and device operation.



Side identification diagram

Side location of Reset beside SIM access

Information for support

When requesting assistance from Siera, have the SXM BC200 model, device ID, firmware version and a description of the issue ready. If relevant, include USB, 4G, WiFi and GPS status.

Siera Electronics

www.sieraelectronics.com



www.sieraelectronics.com

Siera is a trademark of Siera Holding Group

Siera reserves the right to apply changes on the specifications of the products at any moment without prior notice. The picture and images are as reference only, the product can vary from reality. Siera is a trademark belonging to the Siera Holding Group.