



SANCHAR

WIRELESS COMMUNICATIONS LTD.

SBWC-01

Body Worn Camera



INSTRUCTION MANUAL

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Thanks for choosing our product!

Multiple functions in this body worn camera suits for different workers in various industrial field. For professional law enforcement, it brings policeman justice.

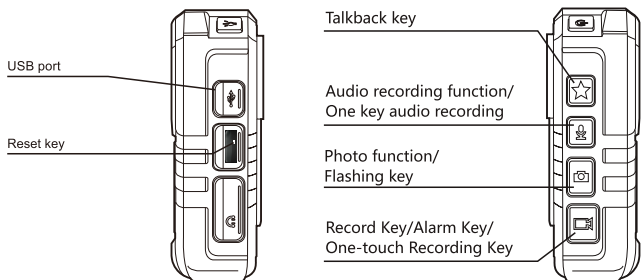
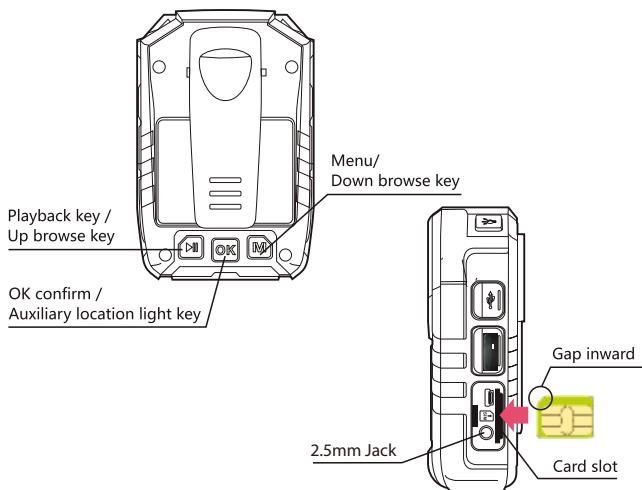
We hope you enjoy all the benefits of features!

Product Overview

Body Worn Camera often utilized by law enforcement to record their interactions with public or gather video evidence at crime scenes.


Nowadays it's also widely used in military, public service, citizen surveillance and personal life recording.

It is designed with H.265 encoding format, 2K resolution. When worn on the front of clothing, an ultra-wide 140° field-of-view lens captures what happens in the field as accurate information for further analysis. Featuring a 64GB/128/256GB internal memory, pre-record buffering, importance tagging, and integrated Infrared LEDs for night vision, device is equipped to perform in any conditions. PC. Security protocols of the device are secure to prevent accidental deletion of evidence or modification of system settings. Video footage is also digitally watermarked with the user ID, time and date, ensuring the authenticity of collected video of the event. The internal GPS receiver provides real-time location tagging of video, offering irrefutable substantiation of where and when the audio and video were recorded.





Basic Operation Description

● Boot

Press  for 2 seconds, the camera will beep on with a green LED, and the camera turn to standby mode with the screen lighted on.


● Audio Recording

Short press , the camera will shake, then the LED flash to yellow and the camera start audio recording. Press  again when you want to end the audio recording, and the camera shakes again, with the yellow LED light off and the recording stored automatically.

● One-click Audio Recording


When the camera is off, long press key  for 4 seconds to start audio recording directly.

● One-click to Change Video Resolution

When the camera is in standby mode, long press key  for 4 seconds, the resolution can be changed between 1280*720 30pfs and 840*480 30pfs.

● Photo Taking

Short press key  to take photo when the camera is in standby mode.

Long press key  for 4 seconds to turn on the LED flashlight, and the light will flash under specific frequency.

● Video Recording

In standby mode, short press  the camera body shakes and starts recording with a red light flashes on the top. Press  again to stop recording, camera body shakes again and red light off, footage saved automatically.

● OK Confirm

Short press **OK** to get into video, photo, audio folder and select a file to play. Long press

OK for 4 seconds to open laser point light, do it again to turn off.

● Menu Setting

Short press **M** to enter the menu setting. (When with the password function on, user should enter password before entering menu, default password is "000000",

which means pressing **M** six times.)

Setting	Description	Options
Video Resolution	The image resolution for video	2560×1440 30P, 2304×1296 30P, 1920×1080 30P, 1280×720 30P, 848×480 30P
Photo Resolution	The image resolution for photos	40M, 36M, 21M, 16M, 14M, 8M, 4M,
Quality	The quality of the image for video and photo files.	Fine, Normal
Video Encode	Fomat Video encoding format, higher encoding format save more memory space.	H.264, H.265
Pre-record	When on, any video you record will include some of the time that elapsed before you press the Record button (stored in the camera buffer); When off, any video you record will include only video and audio from the point after you press the Record button.	Off, 30sec


Key Beep	When on, camera will play a tone each time you press a button. When off, tone is disabled.	On ,Off
Video Split Time	While recording video, the camera will automatically split its recording into files of this length.	5 min, 10 min, 15 min, 30 min
Screen Saver	The amount of the time the camera can be idle before deactivating the display to conserve power.	Off, 15 sec, 1 min, 3 min, 5 min
Volume	The volume of camera speaker. This affects the loudness of video playback, audio playback, the key tone, record warning, and any other sounds played by camera. This doesn't affect the volume of the recorded video or audio files themselves.	0-12
Secret Mode	In secret mode, the camera will record without any warning tone or indicator lights.	On, Off
Mute Audio	"When it is OFF, the camera will record normal video with audio. When it is ON, the camera will record video without audio."	On, Off
Default setting	Use this to return camera to its original settings. This does not erase the memory.	O (Yes), X (No)
Version Information	The hardware and firmware version of this device	Information

- **Combination Key** 

OK confirm key

Press this key into video, photo, audio file browse mode and confirm it.

Laser pointer key

Long press  to open Laser Point light for the best positioning, and do it again to turn it off.

- **Combination Key** 

Walkie-talkie

After connect with the walkie-talkie, press this key start to talk.

Mark * for important files

Short press this key, then a * symbol for important file can be marked on the top left corner of the screen.

Video classification key

Traffic control, criminal investigation and public security can be selected when long press this key for 4 seconds. Short press  or  to select the mode, and short press  to confirm.

- **Combination Key** 

Audio recording key

Press this key to start audio recording, press it again to stop it.

One key audio recording key

When the camera is under turn off status, 4 seconds long press this key to start audio recording, press it again to stop it.

Video resolution change key

When the camera is under standby mode, long press this key for 4 seconds, the video resolution can be changed to 480 or 720.

Combination Key

Long press this key for 4 seconds to open LED illumination function, Long press it again to turn it off.

- USB Port 

Using cable connect this port with computer to get the file and charge the camera.

- Power ON & OFF / Turn ON & OFF Screen Key/Return Key 

Long press this key to turn on/off camera. In home page, short press it to lock the screen, short press it again to unlock. In sub-page, short press it to return previous page.


- Abnormal Alarm

Two kinds of abnormal alarms

When the battery is weak, battery life flashes on the screen , at the same time the camera body shake and alarm with alert when the battery is full, the screen will alert storage full, the camera body shake with alert tone alarm.


- Power Saving Mode

When no operation after 1 min, 3 min, 5 min (optional in menu), the LCD screen will close automatically to save power. Press any key to reopen the LCD.

Short press key  at a time to turn off LCD, short press any key LCD will reopen, and camera return to normal.

Device added with MCU function, it can switch to deep standby mode when not any operation in 15mins, you can press any button to switch on the screen.

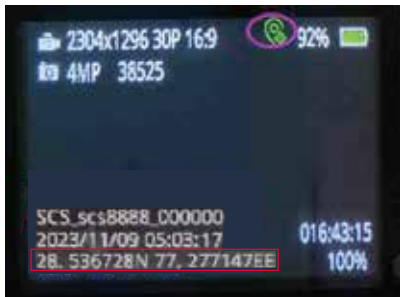
● Attention

- ① Two ways of charging. First one, charging in power off mode with 1A charging electricity, 4 hours to get full. Second one, charging in standby mode with 300mA charging electricity, 10hours to get full. (This way is to protect the circuit board and battery life)
- ② If the camera will be out of use for a long time, please charge it full at first .
- ③ Please don't disassemble or repair the camera privately or by an unauthorized organization.
- ④ Please use a pin to press the reset key  to reboot the camera when running hang or abnormal.
- ⑤ If the camera prompts "Excess fragments! Please format memory on PC" or "card fragment fail", please connect it to computer and delete all data from camera.

AES & GPS Player

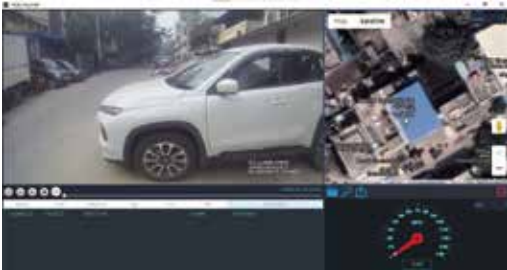
When GPS turns on, camera will record specific location information along with body camera footage, and the tags are stored in the video metadata, pinpointing the location when the footage is reviewed.

There will be GPS coordinate (Longitude and latitude) showing up in the upper lower left of LCD screen when GPS signal is received.

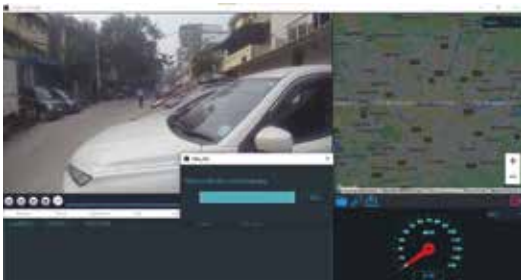


For GPS tracking, user will need to use GPS PLAYER.

1. Double click the player to open it.
2. Click 'folder' icon to choose a video file. (Please make sure the file name without a space) .



3. If the GPS track information can't be loaded in map, then you should enter your may key as shown below: (Google map is free for 1000 times everyday, normally it meets the common needs)



<https://datantify.com/lab/nearplace/blog/how-to-generate-google-map-api-key-for-free/> (FYI).

Troubleshooting

1. Q: The image is freezing or abnormal, button doesn't work.

A: Use a pin or pen to press reset button (under the HDMI rubber port) to have camera resetting when camera works abnormally. Note: DO NOT PRESS this button except maloperation.

2. Q: How does the "Auto IR" work?

A: When IR set to be Auto, the infrared light will automatically turn on only when it is recording in dark environment.

If the camera is not in video recording, infrared light won't be turned on automatically no matter how dark the environment is.

3. Q: How to organize and delete video on PC?

A: Connect camera with PC by original USB cable, the camera will shows a "PC" image after recognized and enter to USB mode. (If the password set to be ON, then user should enter the password after connected with PC)

After that, find the removable USB flash drive in your computer, then you can copy or delete the videos.

4. Q: The camera says "Card fragment fail" or "card full".

A: 1. After camera connected with PC, please right click on the removable disc/USB drive and select "format", then continue the formatting step until complete.

2. Please go to camera menu, and select "format", then choose "O" to continue the steps.











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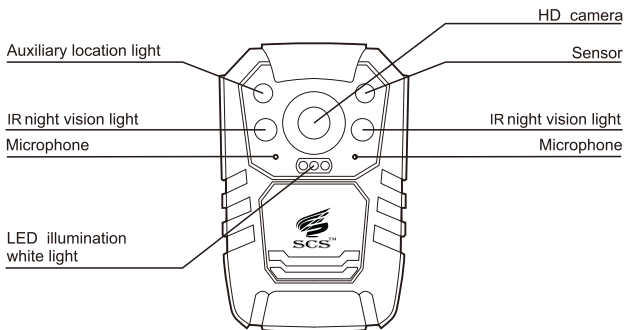
📍 X-47, Okhla Industrial Estate Phase 2, South East Delhi, Delhi-110020

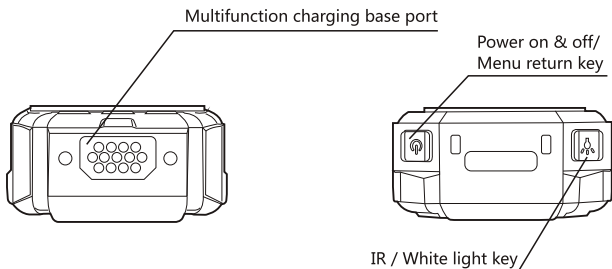
☎ +91-11-4054 7324 ✉ info@sancharcomm.in 🌐 www.sancharcomm.in

Quick Operation

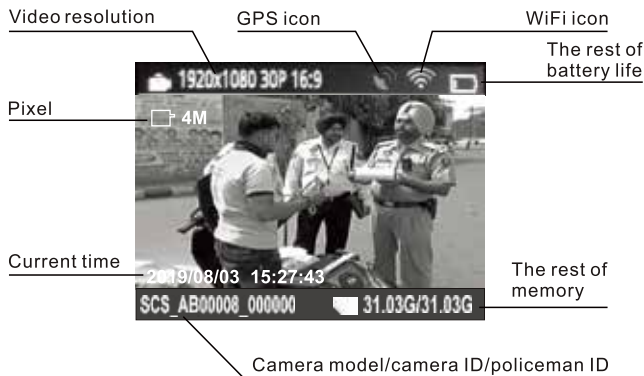
- Long press  to power on/off, and short press to turn on/off screen.
- Short press  to start voice recording, and short press again to stop.
- Short press  to take a photo, and long press it to turn on/off LED white light.
- Short press  to start video recording, and short press again to stop.
- Short press  to turn on infrared light, and short press again to turn it off.
- Short press  to playback the last photo, video or audio files.
- Short press  to set the function and parameter.
- Press  to return the last screen when in menu or playback mode.

Appearance And Key Description







Display Screen Description



● One-click Video Recording

When the camera is off, long press  for 4 seconds to start video recording directly.


● Zoom In/Out

Long press  to  zoom in/out when camera is standby. (Note: When the resolution at 2304*1296 or 1920*1080, zoom in/out function is not available.)



● Laser Pointer

Long press  for 4 seconds to open laser point light. Do it again to turn it off.

● Snapshot Under Video Recording

Short press key  to take a photo in video recording mode.

● Switch Between IR Red Light and LED White Light

Short press  to turn on IR red light. Press it again to shut down in video recording or standby mode. The IR red light can help to record video in the night or dark environment. Long press  to turn on LED white light. Long press for 4 seconds again to turn the LED off.

● One-click Playback

Under standby mode, short press  to playback the last photo, audio or video.

● Fast Forward and Fast Reverse

Short press  or  to fast forward or fast reverse at 2X, 4X, 8x, 16X, 32X, 64X, 128X under playback mode.

Delay Record	The amount of the time the camera waits to stop recording video after you press the Record button.	Off, 30 sec, 1 minute, 1 minutes, 10 minutes, 30 minutes
Video_encrypt	When on, the camera will record with AES encryption videos, This AES encryption method can prevent the loss of camera and file replication caused by sensitive data leakag	Off, On
Network Connection	4G/WiFi	Off, On
Live Stream Video Resolution	HD 30P, HD 15P, WVGA 30P, WVGA 15P, VGA 30P, VGA 15P	Off, On
Loop Recording	When on, camera will overwrite the oldest video file with the most current video file once its memory is full	Off, On
Burst Shot	The number of images captured when you take a photo.	Off, 2, 3, 5, 10, 15, 20
GPS	When GPS is on, position of video will be recorded and can be reviewed by GPS player. (GPS satellite signal only works in outside)	Off, On
Time Zone	Adopt local time in real time zone	-12 to +12
Infrared LED	When set to manual, you will need to hold Snapshot button to turn IR LEDs on/off. When set to Auto, these lights will activate automatically based on the light sensor's reading.	Manual, Auto
Recording Warning	When on, you will hear a voice confirmation when you start recording. When off, voice confirmation is disabled.	Off, On
Police Warning	When on, the camera will announces the police ID when start recording.	Off, On

Indicator Light

Standby Indicator Light (GREEN)

The light turns to green when the camera is powered on.

Charge Indicator Light (RED)

The light turns red during charging, and turn green when it is full.

Video Recording Indicator Light (RED)

The light turns red and flashing under video recording.

Audio Indicator Light (YELLOW)

The light turns yellow and flashing under audio recording.

Key Function Description

- Reset Key



Reset it when the camera freezes by some errors.

- Combination Key



One key play key

In standby mode, press this key to playback the last audio or video file.

Page up key

Go to menu, press this key can select object to up and left.

Focus adjustment function

Long press this key can adjust 8X focus change under standby or video recording mode. Press this key can fast reverse by 2X, 4X, 8X, 16X, 32X, 64X, 128X under video recording.(Note: Focus cannot be adjusted under HD 2304*1296 resolution)

- Photograph key 

Short press this key to take photo.

LED flash light key


Long press to turn on LED flash light function.

- Combination Key 

Video recording key

When the camera is in standby mode, press this key to start video recording, and press it again to stop it.

One key video recording key

Under turn off status, long press  for 4 seconds to start video recording, and press it again to stop it.

- Combination Key 

Menu key

Press this key into system setting interface.

Page down key

Also press this key to select file from up and left when browse the files.

Zoom lens key

This key also has focus adjust function. Long press this key can adjust 8X focus change under standby or video recording status. Press this can fast reverse by 2X, 4X, 8X, 16X, 32X, 64X , 128X under video recording.

- Combination Key 

No shadow IR night vision light key

Short press it to open no shadow IR night vision light and help to calibrate the video object. Short Press it again to turn it off.

LED illumination light

- **Charging:**

Please use the original USB cable and charger for charging. When the power supply is connected, the charging LED turns to RED, please turn off the camera to ensure a normal charging speed, charging LED will turn to GREEN when battery is full. In general, it takes about 4 hours for fully charge, affected by the charging environment, the charging time may fluctuate slightly, which is normal.

- **Battery Life:**

Battery life vary from different settings and environments. In our test, the camera last 10-11 hours in following setting: 28 degrees Celsius indoors, 720P resolution, GPS off, IR off ; and last about 8-9 hours in 28 degrees Celsius indoors, 1296P resolution, GPS off, IR off.

- **Charging Ways**

- ✓ Use charger to connect with 220V power supply

- ✓ Use USB to connect with PC system.

Both ways support connecting via charging dock or via camera USB port directly.

GPS Player Installation

Please download 'AES&GPS PLAYER' from CD, camera's memory or website. Before installation, you'd better close the firewall first. Double click the software to install, then always go next steps until finish them all. After installation, desktop shortcuts will be shown as below:



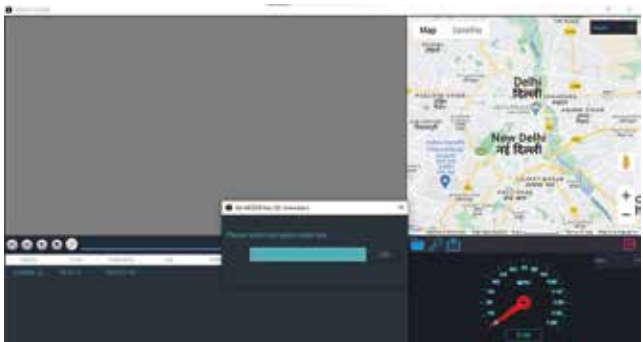
After installation, desktop shortcuts will be shown as below:



AES Encryption Player

When Video encrypt turns on, camera will record specific ENC and encrypt video along with body camera footage, and the tags are stored in the video metadata, This AES encryption method can prevent the loss of camera and file replication caused by sensitive data leakage.

1. Double click the player to open it.
2. Click 'folder' icon to choose a video file. (Please make sure the file name with ENC)
3. If the encryption video can't display, then you should enter your encryption video key.



5. Q: How to synchronize time?

- 1) Set your local time zone in camera menu;
- 2) Turn on GPS outdoors, the camera time will be automatically synchronized once GPS icon turns to green;
- 3) Turn off GPS.



Warnings

1. Built-in Battery , please do not punch the battery or throw the product into fire.
2. Do not replace the battery by user themselves.
3. Do not disassemble, repair or make any modifications to the product by users themselves.
4. Please store this product safely and correctly, use this product under specified environment temperature.
5. Only use the original charger to charge.
6. Please comply with local regulations and do not dispose this product as household garbage.

