ClockCam
USER GUIDE

The ClockCam device is small and simple operation with multi-practical features such as MP3/MP4 video player, long video recording time, recording playback, night vision, loop recording, taking photos, recording sound alone, FM radio, and a few other features worth experimenting with both for entertainment and home/office security. It's a high quality combination of entertainment and with low profile security.

All information and instructions included in this manual are current as of June 14th, 2017. However, due to the fluid nature of advancing technology, some characteristics may change or need modifications in the future. Should you encounter any problems or have any further questions about your purchase, please visit our website www.ElectroFlip.com and contact us through our Contact Us page.

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SAFETY/RECOMMENDED USE INFORMATION

1. **Use Limit:** This product can't be used for any illegal purpose. Please strictly follow your relevant national and state laws regarding the use of security/surveillance camera.

2. **Battery:** This unit has a rechargeable battery which needs to be charged, should you completely deplete it before recharging.

3. **Working Temperature:** -10°C to 60°C

4. **Working Humidity:** 20% - 80%. Please do not put the product in damp environment. This product is not waterproof designed.

5. **Other Notices:** This product is precision electronic product. Please do not subject it to strong shocks and continuous vibration. Do not use it under strong magnetic and electric field. Do not leave this device directly in the sunlight or it may expand/damage/explode the internal battery.

PRODUCT INFORMATION

HARDWARE ATTRIBUTES

BUTTON	FUNCTION	BUTTON	FUNCTION
MENU	Menu/Mute	**VOL+/>>|**	Volume increase/Next/Fast Forward
MODE	Mode switch	**OK**	Confirm
VOL-/|<<	Volume decrease/Previous/Rewind	**EXC**	Go back/Turn off the display

NOTE: "**VOL-/|<<**" and "**VOL+/>>|**" combination can initiate the hidden function menu such as video recording.

PRODUCT SPECIFICATION

Video decode	MP4/3GP/AVI/ASF	**Interface type**	MINI 5 pins USB, USB 1.1/2.0
Audio decode	MP3/WMA/WAV/AAC	**IR LED wavelength**	940nm
Video encode	MPEG4	**Battery**	1000mAh, compatible with Nokia Li Battery BLC-5C
Video resolution	320*240 / 640*464	**Charging voltage**	DC-5V
Video frame rate	Up to 30fps	**Working temperature**	-10°C - 60°C
Audio encode	AAC	**Operating humidity**	20 – 80% RH
Image format	JPG	**Storage temperature**	-10°C - 70°C
Image resolution	Up to 5M Pixel	**Dimensions**	50x50x80 (smaller than a bankcard)
Speaker power	3W		
LCD resolution	320*240, TFT	**Weight**	160g
Storage capacity	Micro SD Card, Up to 32GB	**Protective Shell**	1mm Aluminum alloy shell for anti-drop, anti-shock, and quality material.

GETTING STARTED

CHARGING THE DEVICE

To charge the device, just simply connect it through a USB cable and to your computer or through USB power adapter and the device will just automatically charge.

The device can record video for 3 hours when fully charged.

HOW TO ACCESS HIDDEN CAMERA MENU

Once powered up, you will find yourself at the default Audio Player menu, press and hold "**VOL-**" and "**VOL+**" key at the same time for 5 Seconds or until you see the screen change. You'll now see you're in the DV (Digital Video) hidden menu. You now have several new menu options to choose from DV for video recording, Camera for capturing photos, Audio Record for recording just audio, PC Camera to use the device as a web camera, and Monitor Settings for configuring how your ClockCam will record or take photos. Now please explore, learn, and enjoy. To return back to the Audio Player main menu, press the volume buttons at the same time again.

HOW TO VIDEO RECORD

1. Make sure the ClockCam is fully charged and a memory card has been inserted before attempting to move further.

2. Now turn **ON** the device. Wait a few seconds for it to boot into the main audio player menu.

3. Now press and hold "**VOL-**" and "**VOL+**" button at the same time for 5 seconds to enter the DV (Digital Video) hidden menu.

4. Now while at the DV menu, simply press **OK** to enter recording mode. By default we configure these ClockCam's to record on motion detection (you can change this in Monitor Settings if you desire). You will see a pop up messaging indicating it will enter motion detection record mode in 10 seconds. You will briefly see yourself on screen, then seconds later it will switch to the covert Clock display. Now you will notice at the top right is a blue dot, this is the indicator that it's currently in record mode. If you prefer not to display anything on the screen, press and hold the **ESC** button for 5 seconds. You will now see nothing making the unit appear as if it's completely off, even though its covertly recording. To show the clock again, simply press the **ESC** button once.

5. To stop the recording, press and hold "**VOL-**" and "**VOL+**" button at the same time for 5 you will see yourself. Now press the **OK** button once. Now you will see a pop up menu, asking if you would like to stop the recording. Use the "**VOL-**" button and then press the **OK** button. Video recording has been stopped, now to exit back to the DV menu, press the **ESC** button. Little tricky at first, but you got this!

PLAYBACK YOUR VIDEO RECORDING'S

1. Once you've made a couple video recordings of your own, you should have a few videos stored on your memory card.

2. Navigate to the Audio Player menu, or simply power cycle (Off then On again) your

camera to bring you back to the default menu.

3. Press the "**VOL+**" button just once, you should now be at the Video Player menu. Click **OK** button to enter the video player menu and see file list of videos.

4. Currently you wont see any video files in the file list, because they are intentionally hidden to avoid someone from viewing your recordings. Press and hold "**VOL-**" and "**VOL+**" key at the same time for 5 seconds. You will now see your video recording files appear. Now select one to start the video player and begin playing the video file.

Note: Recording video files are in the following File format: **VidYYMMDD_hhmmss.mp4** (year, month, day, hour, minute, seconds)

DIFFERENT TYPES OF RECORDING

1. Automatic Recording

Automatic recording means that if you play an MP3/MP4 (and video playback) file while recording a video, the video recording will pause until the MP3/MP4 play is over. Then, the system will enter clock display interface and then start recording automatically if there is no operation in the main interface. On the contrary, manual recording means the video will not continue video recording after the MP3/MP4 file completes.

To set this function, please access the DV Hidden menu by pressing and holding "**VOL-**" and "**VOL+**" button at the same time for 5 Seconds. Set **Automatic Recording** to either manual or automatic mode.

2. Night Vision Recording

The device uses a professional OV7725 night vision camera lens/chipset that enhances the video brightness to get a clearer video at night or in dark environment. The device will turn ON the IR LED for night vision recording automatically when the light sensor detects low ambient light. (This helps preserve battery power.)

To change the settings of this feature, access the DV Hidden Menu, then select cycle to the Monitor Settings Menu.

Below is an example of a recording in different lighting scenarios:

| Bright lamplight | Natural light at night | Turn on the infrared mode | Turn on the infrared night vision mode |

3. Loop Recording

In loop recording, video files are saved and divided into multiple video file segments automatically. When the microSD card is full, the oldest file or several files are automatically deleted to free up the needed space for the device to continue recording. At the same time, it will automatically calculate the available space and the effective space on the MicroSD, if the available space or the effective space is too small, then the video recording stops until it delete's additional files to free more space. This cycle continues in a loop.

4. Continuous Video Recording

With the external power supply connected to the device, you can continuously record video without the limitation of the battery capacity. (4 hours of recording on battery at best)

NOTE: If you set both loop recording and continuous recording, this would let you record video without the limitation of battery and storage capacity. It's a way to ensure it records non-stop.

5. Super Long Time Recording

High quality-video compression algorithms for ultra-long video storage. This generates very small video file, a 1-day video can be saved in a 1GB MicroSD card. Meaning a 32GB MicroSD card could render 32 days worth of video when set to record non-stop and even longer if set to record in motion detection mode.

This function must be set in the DV Hidden Menu under the Monitor Settings Menu.

6. Hidden Recording

This feature will enable the Clock Display mode when you initiate a recording. This discretely hides the fact that you are recording, and displays a common digital clock while recording. You will see a "**Blue Dot**" at the top right corner of the screen. For audio recording you will see a "**Yellow Dot**" and "**||**" (pause symbol) indicates that the recording has been stopped by you or automatically. By default this feature is enabled, but can be change this setting under the Monitor Settings Menu.

MUSIC AND VIDEO PLAYBACK

1. Press **MODE** button. An indicator light on the volume bar turns to blue indicating that it is in the SECONDARY function mode.

2. Press **MODE** button again to go back to normal mode.

Below is the table of the different kinds of operation you can do under **Normal** and **SECONDARY** functions mode.

NORMAL MODE	
Short press "VOL-/|<<", "VOL+/>>|" button	Choose previous or next song.
Long press "VOL-/|<<", "VOL+/>>|" button	Go backward or forward quickly
SECONDARY FUNCTION MODE	
Short press "VOL-/|<<" and "VOL+/>>|"	Adjust the volume.
Long press "VOL-/|<<"	Choose the play mode.
Long press "VOL+/>>|"	Choose the EQ mode.
GENERAL OPERATION	
Short press "OK"	Play/Pause
Short press "ESC"	Stop playing video or audio and go back to previous interface.
Short press "MENU"	Mute

RADIO OPERATION

1. Insert earphones or insert audio line into "**LINE-IN**" port. (**REQUIRED** in order for the ClockCam to pickup FM radio stations, it utilized the headphone wire as an antenna.)

2. Press **MODE** button. An indicator light on the volume bar turns to blue indicating that it is in the SECONDARY function mode.

3. Press **MODE** button again to go back to normal mode.

On the following page, a table of the different kinds of operation under **Normal** and **SECONDARY** functions mode are provided.

NORMAL MODE		
Short press "MENU"	Enter into FM mode options, including channel search, automatic search and manual search.	
	Channel search mode	We can choose radio station. 1. Short press "VOL-/|<<", "VOL+/>>|" key to choose a radio station. 2. Short press "OK" button to save the current radio station.

	Automatic search mode	Short press "OK" button to search radio station automatically. During searching, all buttons are not active.
	Manual search mode	We can set frequency manually. 1. Short press "VOL-/|<<", "VOL+/>>|" button to decrease or add frequency. 2. Short press "OK" button to save the current radio frequency setting.
SECONDARY FUNCTION MODE		
Short press "VOL-/|<<", "VOL+/>>|"	Adjust the volume.	
Short press "OK"	Mute.	
GENERAL OPERATION		
Short press "ESC"	Exit radio function and go back to the main interface	

AUDIO INPUT

1. Insert audio line into "**LINE-IN**" port and the device can be used as an external speaker.

2. Short press "**VOL-**" or "**VOL+**" button to adjust the volume.

3. Short press "**OK**" button to mute.

PLAYBACK (USB Connection)

1. Turn **OFF** the ClockCam.

2. Connect the device to your computer's USB port. The computer will detect it as an external storage and will assign a removable disk drive.

3. Open "**My Computer**" and look for the removable disk drive that pertains to your device.

4. Open the removable disk drive and it will list all the video and photo files saved on the memory card.

5. Double click the video or photo file to play or view it. You can also drag and drop or copy and paste the file to your computer's hard drive and play it from there. Same steps also apply if you want to backup your files.

6. After you have viewed or backed up your files, just safely remove the device from your computer before unplugging it from the USB port to avoid data corruption.

PLAYBACK (Using Card Reader)

1. Push to EJECT (do not forcefully pull to remove memory card) the microSD card from the memory card slot on the back of the ClockCam.

2. Insert the micro SD card to the USB card reader. Please follow the label on the card reader on how to insert the card.

3. Connect the card reader to the USB port of your computer. The computer would detect it as an external storage device and will assign a removable disk drive for it.

4. Open "**My Computer**" and look for the removable disk drive that pertains to micro SD card in the card reader.

5. Open the removable disk drive to view to the list of video files. Double click on a video file to view them or you can drag and drop the files to your computer hard drive and play it from there. You can also do copy and paste.

6. After you have viewed or backed up the file just safely remove it from your computer before unplugging it from the computer to avoid data corruption.

CLOCK DISPLAY

You can enter the clock display interface under this following scenario:

1. There is no operation for long time while in the main interface and security interface, the device will automatically go to clock display mode.

2. You press "**ESC**" button after video/audio record starts.

3. When the hidden video/audio recording mode is set and there is no operation after video/audio recording starts for 10 seconds.

To exit from clock display mode, you can:

1. Press "**VOL-**" and "**VOL+**" beyond 3 seconds when video/audio recording is on.

2. Press "**ESC**" button when video/ audio recording is off, it will return to main interface.

3. Press any button when video/ audio recording is off, it will return to main interface.

TURN OFF SCREEN DISPLAY

1. Press "**ESC**" button for 3 seconds. LCD display will turned off.

2. Press any key to turn on the screen display.

WEBCAM OPERATION

1. Connect the device to your Windows PC computer via USB cable. Device is plug_and_play so computer would automatically detect the device and install the required driver from the computer's common driver list.

2. Open **My Computer** and look for the camcorder icon.

3. Double left click on the camcorder icon to run the webcam application.

KEY LOCK

1. Press "**MODE**" button for 3 seconds and the key will be locked.

2. Press "**MODE**" button for 3 seconds again and the keys will be unlocked.

NOTE: The key lock function has no effect on the "**Screen Display Close**" function.

FILE DIRECTORY STRUCTURE

The files should be put in their specific directory, for example an MP3 music files must be saved under \\MUSIC directory otherwise it won't play. Video and audio recordings as well as photos taken will be automatically saved by the device to their respected directory. Below is the list of directories for each file:

\\VIDEO – Video directory   \\REC\VIDEO - Video record directory
\\MUSIC – Music directory   \\REC\AUDIO - Audio record directory
\\PICTURE – Image directory   \\REC\PICTURE - Photo record directory

Video record function needs more than 512M microSD card free space and enough effective memory space(the sum of the available space and the space of all the existing video file), otherwise, it can not record video and a message will display on the screen.

MOTION DETECTION

To activate this feature, enter the DV Hidden Menu and cycle to the Monitor Settings Menu. Enable Motion Detection from within the settings menu. Now going forward when motion has been detected the ClockCam will automatically begin recording in 5 minute segments. This feature is enabled by default.

TROUBLESHOOTING

Below are possible issues that you may encounter when using the device. If the issue you are having is not on the list you may visit our FAQ section (http://help.electroflip.com/index.php) or you can contact us through our website, www.ElectroFlip.com, and go to our Contact Us page. You may also give us a call at our customer support number on our website.

1. **System stops responding.**
   Cause:
   Power is not stable or unexpected interference.
   Micro SD card has a problem.

   Solution:
   Re-install battery if the power switch is not working when the system stops responding.
   Format the memory card or try a different one.

2. **Cannot play/record/stop recording automatically.**

   Cause: Micro SD card has a problem.
   Solution: Format memory card or try a different one.

3. **Overlap display when recording or playing back a video or audio.**

   Cause: This is a problem with the LCD screen characters, the video has no problem.
   Solution: Connect the device to your computer to play the video.

4. **Battery life does not last long (less than 2 hours).**

   Cause: Device has not been properly or fully charged.
   Solution: Make sure to fully charge the device before using it. If the device has not been used for quite awhile make sure to charge it before using even if it was fully charged from the last time you used it.

5. **My device is not generating small video file. It is not saving my 1-day worth of video to a 1GB file.**

   Cause: The "**Super Long Mode**" is not setup.
   Solution: Go to the security function setting's menu and activate "**Super Long Mode**".

6. **My device is not doing a loop recording.**

   Cause: Loop recording is not set in the device.
   Solution: Go to the security function setting's menu and activate "**Loop Recording**".

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