RECORDERGEAR

USER MANUAL

MODEL
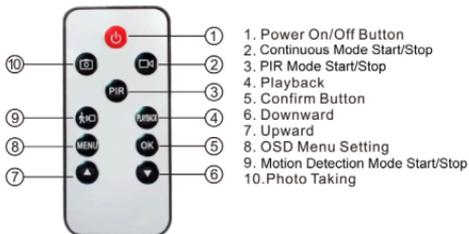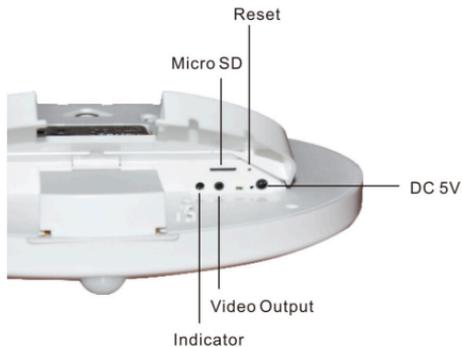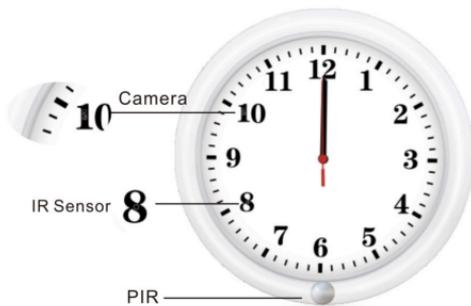# WC50

1080P Hidden Camera
Wall Clock w/ Remote Control

Camera

10

IR Sensor 8

PIR

Reset

Micro SD

DC 5V

Video Output

Indicator

Wall Hand

Camera Switch

Movements Adjust

Clock Battery

Stand

1. Power On/Off Button
2. Continuous Mode Start/Stop
3. PIR Mode Start/Stop
4. Playback
5. Confirm Button
6. Downward
7. Upward
8. OSD Menu Setting
9. Motion Detection Mode Start/Stop
10. Photo Taking

Table of Contents

1 Quick Set-up

A. Charging the Battery:
We recommend charging your WC50 for 15-20 hours before use. Charge your WC50 using the ac adapter provided.

B. Insert Micro SD Card:
Insert a micro SD card (not included) into the micro SD card slot of the WC50 (see picture below). The WC50 supports a 2GB-128GB class 10 micro SD card.

C. Power On/Off:
Powering on the WC50:
1. Insert a micro SD card into the WC50.
2. Press the power button on the remote control. A GREEN light followed by 3 blinking RED lights will indicate it is powered on and recording. When the WC50 is powered on, it automatically starts recording video in motion detection mode. (see diagram for indicator light).

Powering on with Power Cable:
1. Insert a micro SD card into the WC50.
2. Insert power cord to the DC 5V charging port (see diagram) of the WC50 and it will be powered on. A GREEN light followed by 3 blinking RED lights indicates it is powered on and recording. When the WC50 is powered on, it automatically starts recording video in motion detection mode.

Powering off the WC50:

1. Press the power button on the remote control. The RED light will blink 3 times to confirm that the WC50 has powered down.

NOTE:

The steps to powering off the WC50 are the same for both methods of powering on the WC50.
The WC50 can record while plugged into a power source or using the internal rechargeable battery.

D. Adjust Camera View Angle:

You can adjust the view angle of your camera by using the camera adjustment wheel located on the back of your WC50. (see diagram; labeled as "camera switch") Scroll the wheel up to tilt the camera angle down and vice versa.

E. Loop Recording:

If Loop Recording is turned on, your WC50 will record over the oldest files when the memory capacity is reached so that you never have to change the memory card. If Loop Recording is turned off, your WC50 will stop recording when the memory capacity is reached. (see section 5-B-3)

F. Video format and Recording Time:

There are 4 video resolution options: 480p, 720P30, 720P60 or 1080P and 3 options for the video time which include 1 min, 3 min, and 5 min.
(see section 5-B-4 for more detail)

G. Remote Control

You will use the remote control for many functions on the WC50 such as start/stop recording, switching modes, taking photos, and navigating the menu system (using the included video output cable). We recommend pointing the remote directly towards the front of the clock at a 2ft-10ft range. Please refer to the remote control diagram.

2 Recording Modes

A. Standby mode :
This is an intermediary mode between all other modes. Whenever you stop any recording mode, the WC50 goes into standby mode.
Standby mode is indicated by a solid GREEN light on the back WC50. (see diagram for indicator light).

B. Motion Activated Recording:
This is the default mode the WC50 goes into when it is powered on. In this mode, the WC50 will record only when motion is detected. Any type of motion will be detected in this mode. In this mode the video records in 1 min intervals to reduce file size.

Activate Motion Detection Mode:
1. Power on the WC50 and it will automatically start recording in motion activation.
2. A green light followed by 3 blinking RED lights will indicate recording has started and then turn of during recording.
3. It will record in one minute intervals saving each recording to the SD card.

NOTE: The RED indicator light will blink 3 times anytime motion is detected.

Stop Motion Detection Mode:
1. To stop recording press the motion detection button on the remote.
2. The recording will stop, your WC50 will switch to the standby mode, and the current file will be saved.
3. To start recording again, press the Motion Record button on the remote.
MODE BATTERY LIFE: Up to 28 hrs.

C. Continuous Recording:
In this mode, the WC50 will record continuously. There are 3 options for the video time which include 1 min, 3 min, and 5 min. This is the only mode where these three options take affect. The time selected determines the length of segment the video will be broken into to reduce file size (see section 5-B-4).

NOTE: You can activate Loop recording to prevent the memory card from filling up (see section 5-B-3).

Activate Continuous Recording mode:
1. Power on your WC50 and it will automatically start recording in motion detection mode.
2. Press the motion detection button on the remote to stop motion detection recording.
3. The WC50 will enter standby mode which will be indicated by a solid GREEN light.
4. Press the continuous record button on the remote to start recording.
5. The green indicator light will blink 2 times to indicate recording has started and will turn off during recording.

NOTE: You can activate continuous recording mode from any other recording mode by first stopping that mode and then pressing the continuous record button.

Stop Continuous Recording mode:
1. To stop recording press the continuous recording button on the remote.
2. The recording will stop, your WC50 will switch to the standby mode, and file will be saved.
MODE BATTERY LIFE: Up to 22 hrs.

D. PIR (Passive Infrared Sensor) Motion Activated Recording:
For motion activated recording, we recommend this mode to all users, since it is the most accurate and precise mode of the WC50. "*A passive infrared sensor (PIR sensor) is an electronic sensor that measures infrared (IR) light radiating from objects in its field of view*" - Wikipedia.
This mode will only record when it senses the presence of any moving object producing infrared (heat) like a human. In this mode the video records in 1 min intervals to reduce file size.

Activate PIR Motion Detection mode:
1. Power on your WC50 and it will automatically start recording in motion detection mode.
2. Press the Motion detection button on the remote to stop motion detection recording.
3. The WC50 will enter the standby mode indicated by a solid GREEN light.
4. Press the PIR button on the remote to start recording.
5. The RED indicator light will blink 3 times to indicate recording has started and then will turn off during recording.
6. Will record for one minute and then save recorded file to SD card.

NOTE: You can activate PIR motion detection mode from any other recording mode by first stopping that mode and then pressing the PIR button.

Stop PRI Motion Detection mode:
1. To stop recording press the PIR motion detection recording button on the remote.
2. The recording will stop, your WC50 will switch to the standby mode, and file will be saved.
MODE BATTERY LIFE: Up to 6 Months.

NOTE: Every recording mode can be played while your WC50 is plugged in.

3 Photo Taking

This option allows you to take still photos using the remote.
A. Take Photos:
1. Power on your WC50 and it will automatically start recording in motion detection mode.
2. Press the motion detection button on the remote to stop motion detection recording, it will enter the standby mode indicated by a solid GREEN light.
3. While in standby mode, press the photo taking button on the remote to take photos, the light will flash RED to indicate that a photo was taken and then return to GREEN (standby mode). Repeat as needed.

NOTE: You can start taking photos from any other recording mode by first stopping that recording mode and then pressing the photo taking button.

4 Play Back

A. Memory Card to PC:
1. Power off the WC50.
2. Remove the micro SD card and insert it to a PC using a card reader.
3. Open the SD card folder on PC.
4. View files.

B. WC50 to TV via AV cable:
1. Connect the WC50 to your TV via the AV cable provided.
2. Power on your WC50 and it will automatically start recording in motion detection mode .
3. Press the playback button on the remote.
4. Use the up and down arrow on the remote to navigate the files .
5. Press the Ok button to select or play desired file or press the menu button to access more options which include delete, volume, and setup (see section 5-B-8).
6. Press the Ok button to stop selected or playing video.
7. Press any recording mode button to exit play back.

NOTE: When you exit the play back mode your WC50 will begin recording in the mode of the button that you pressed.

5 WC50 Settings

A. Main Menu:

To access the WC50 settings:

1. Connect the WC50 to a TV/Monitor via the supplied AV cable.
2. Power on your WC50 and it will automatically start recording in motion detection mode.

3. Press the motion detection button on the remote to stop motion detection recording and it will enter standby mode indicated by a solid GREEN light.
4. While in standby mode, press the menu button on the remote to enter the main menu.

5. To exit the main menu at any time, press the menu button on the remote.

B. Menu Description:

While in the main menu, you can navigate using the UP or Down arrow. Press the OK button on the remote to confirm selection or access more menu options. Press the menu button to return to previous page.

1. Resolution - Here you can change between the four resolution options: 480p, 720P30, 720P60 or 1080P.
2. Time Stamp - Here you can choose between having the time/date stamp, just the date stamp, or neither display.
3. Loop Record - If Loop record is turned on, your WC50 will record over the oldest files when the memory capacity is reached so that you never have to change the memory card. If Loop is turned off, your WC50 will stop recording when the memory capacity is reached.
4. Video Time - There are 3 options for the video time which include 1 min, 3 min, and 5 min. The time selected determines the length of segment the video will be broken into to reduce file size.
5. Audio Record - This option allows you to control audio recording in the videos. If you want sound to be recorded on the video, select On. If you don't want sound to be recorded, select Off.
6. EV (exposure Value) - There are 13 exposure values available ranging from -2.0 to +2.0.
7. Motion Detection - There are 3 sensitivity options available which include High, Medium, and Low. This will not effect the PIR mode.
8. Setup - Here you'll find more settings available to help you further personalize your WC50.
   a. Format: Here you can format the micro SD card inserted in your WC50. To format the SD card select execute. If you do not want to format the memory card select 'cancel'.
   b. Language: Here you can select your preferred language.
   c. TV output: There are 2 options which include NTSC and PAL.
   d. Light Freq. (light frequency): There are 2 options which include 50Hz and 60Hz.
   e. Date Format: You can choose between 3 date formats available.
   f. Date Input: Use this option to change the date on your WC50.
   g. Time Input: Use this option to change the time on your WC50.
   h. System Reset: This resets your WC50 to its factory setting. To reset your WC50, select 'execute'. If you do not want to reset your WC50, select 'cancel'.
   i. FW Upgrade: This option isn't available at this time.
   j. FW version: The submenu contains the version of your firmware.

6 Miscellaneous Settings

A. Clock time:
The Clock time works on a separate AA battery. To set the time on clock, use the setting wheel above the battery (see diagram; labeled as "Movements Adjust").

7 Trouble Shooting

A. Reset:
1. Press the reset button on the back of clock with a thin pointed object (ex paper clip, tooth pick, etc.).

B. System Reset: See step 5-B-8-h.

8 Specs

Video Resolution	1920x1080P, 1280x720P, 720x480
Video Compression/Format	H.264 / AVI
View Angle	65°
Recording Modes	Motion Detection, PIR, Continuous
Recording	
PIR Standby	6 months
Motion Detection Range	Up to 26ft
PIR Detection Range	Up to 32ft
Min. Illumination	1.0lux
Memory (SD Card)	Up to 128GB
RC Battery	8000mAh
Operation temperature	-10 to 50° C (14 to 122° F)
Operating Systems	Windows XP/Vista32/Win7/MAC
Power	DC 5V 1.5A

RECORDERGEAR

PROFESSIONAL GRADE SECURITY

CE FC KC

MID: WCC-1080PIR

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products. See our website at www.recordergear.com
for more details.