

Uniden®

CAM250

AUTOMOTIVE VIDEO RECORDER



OWNER'S MANUAL

IMPORTANT SAFETY INSTRUCTIONS

- Uniden does not represent this product to be waterproof. Do not expose this product to rain or moisture.
- This product is intended for use in a motor vehicle. Don't install the device where it will block the driver's view of the road (including the mirrors) or the deployment of the airbag.
- Keep your attention on the road! Don't try to operate or focus on any device while driving. If you have to concentrate on the device, pull off the road for a few minutes.
- Ensure that the camera lens is kept clean and there is nothing blocking the lens.
- Don't leave the device in direct sunlight for a long period of time or where the temperature could go above 140°F (60°C).

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CAM 250

AUTOMOTIVE VIDEO RECORDER

OVERVIEW

The Uniden CAM 250 is an ultra-compact recorder that can be set up to continuously capture high quality video even in low light conditions. Motion detection triggers the camera to instantly begin recording if the vehicle is bumped or scraped. The built-in G-Sensor system begins recording immediately if there is a change in motion (i.e., an accident). The CAM 250 can even record outside the vehicle for the duration of the internal battery's power.

FEATURES

- 1.5" color screen
- High Definition Recording
- Infrared Night Vision
- G-Sensor
- Loop Recording
- Auto Power Off
- Date and Time Stamp
- Records onto microSD Card (not included)
- Internal Rechargeable Battery

WHAT'S IN THE BOX?



Uniden CAM 250



Windshield Mount



DC (CAR) Adapter

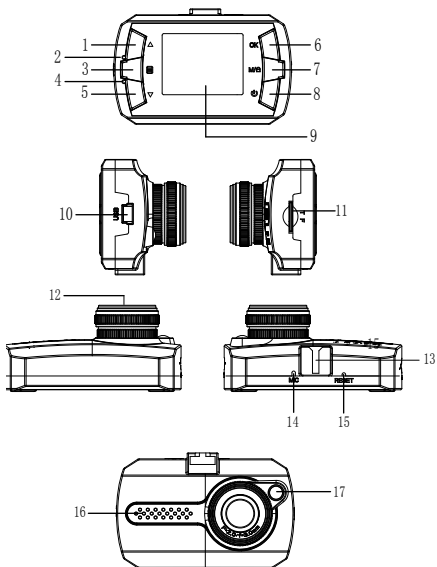


USB Cable


If any items are missing or damaged, contact our Customer Care Line immediately at 800-297-1023. Never use damaged products!

Need help? Get answers 24/7 at our website: www.uniden.com.

CONTROLS AND INDICATORS



| No. | Item | Description |
|-----|------|---|
| 1 | UP ▲ | <ul style="list-style-type: none"> In Standby mode, zoom in. In Menu list, move the cursor one line up. |
| 2 | LED | <ul style="list-style-type: none"> RED - Indicates charging |
| 3 | MENU | In Standby mode, open the Menu. |
| 4 | LED | <ul style="list-style-type: none"> BLUE - (Glow) Standby Blue (Flashing) Recording |

| No. | Item | Description |
|------------|--|--|
| 5 | DOWN ▼ | <ul style="list-style-type: none"> • In Standby mode, zoom out. • In Menu list, move the cursor; one line down |
| 6 | OK | <ul style="list-style-type: none"> • In Record mode, press this button to start/stop video recording. • Use this button to capture an image in the Photo USB Port mode. • Confirm a menu selection. • Confirm changes in the settings. |
| 7 | M /  | <ul style="list-style-type: none"> • While recording, press to lock/save (from overwrite) the current recording. • Use this button to shift between Record, Photo, and Playback mode. |
| 8 | POWER | <ul style="list-style-type: none"> • Press to turn power on. • Press & hold to turn power off. • During power on, press to turn Infrared LEDs (night vision) on/off. |
| 9 | LCD | |
| 10 | USB Port | <ul style="list-style-type: none"> • Connect External Power & charge battery • Connect to PC for data (SD card) transfer |
| 11 | Card Slot | microSD card slot |
| 12 | Lens | |
| 13 | Bracket Slot | Fit the bracket hook of the windshield mount |
| 14 | MIC | Records sound. |
| 15 | Reset | If the device fails to operate, try resetting the device. Press the reset button using a fine pen or paperclip. |
| 16 | Speaker | |
| 17 | Infrared LED | LED for night vision |

INSTALLATION AND TURNUP

ATTACHING THE WINDSHIELD MOUNT

1. Insert the windshield mount bracket hook into the bracket slot on the top of the CAM 250.
2. After inserting the hook, slide it down until it locks in position.
3. Press the suction cup flat against the windshield.
4. Push the suction lock up until it snaps into place and tighten the locking collar to secure.
5. Gently pull on the mount to make sure it is secure.



INSTALLING THE MICROSD CARD

A compatible microSD card (not supplied) is required to record and store videos and photos.

The unit can support microSDHC cards (High Capacity SD) up to 32GB in capacity. Uniden recommends using a good quality microSDHC card of at least 4GB capacity and minimum Class 4 speed.

Insert a formatted microSD card gently in the slot on the side of the unit. To remove the card from the slot, press the edge of the microSD card inwards for it to pop out and then pull it out of the slot.

POWERING UP THE CAM 250

1. Connect the DC car adaptor to the power connector (USB port) found on the device.
2. Connect the other end of the DC car adaptor to the car's cigarette lighter.
3. When connected to the car charger, the unit will power on automatically and start recording when the car is started. When the car's engine is turned off, the unit will automatically turn off in a few seconds.
4. At other times, press the  button to turn it on, or press and hold the  button to turn it off.

Only use the DC car adaptor that comes with your device. Any other adaptor might damage the device.

Battery Operation

Although primarily designed for in-car use, the CAM 250 can operate from its built-in battery for up to 10 minutes.

The power usage length depends on day/night recording and resolution setting.

The unit charges the battery whenever power is detected through the USB port. When the unit is being charged, the red LED glows. It will automatically turn off when the unit has been charged completely. The unit will take about 90 minutes to charge completely. The Battery Status icon tells you how full the battery is.



Empty



Low



Half Full



Full

OPERATING THE CAM 250

The CAM250 operates in three modes: Record mode, Photo mode, and Playback mode. These modes also have menus to help you configure recording and taking photos. Press **M/** until you access the mode you want. An icon appears in the upper left corner of the screen for each mode.



Record Mode



Photo Mode




Playback


RECORD MODE

To record video, verify that a valid microSD card (not supplied) in inserted in the microSD slot.



Inserting or removing the microSD card when the unit is recording causes the device to shut down.



Recording

When connected to a car charger, the unit automatically goes into Record mode and starts recording. The  icon displays on the screen with a flashing red dot beside it indicates recording is in progress.

If the unit is not recording, press **OK** to start recording. A flashing red dot appears next to the  icon. To stop recording, press **OK** and the red dot disappears, indicating that the recording has stopped.


Save Current Recording

You can save the file that is currently recording so that it will not be overwritten if space is needed. While recording, press **M/** ; the  icon appears on the screen. This indicates that the recording has been locked and will not be overwritten by new video clips.


Press **M/**  again to stop recording. The  icon disappears from the screen.



Recording Mode Menu

You cannot access menus when the the unit is recording. To access the Record menus, stop recording by pressing OK.

In Record, Photo or Playback mode, press the **Menu** key () once to access the menu settings for that particular mode. Press it twice to display the Settings menu.

The Settings menu is common to all modes. See page 14.

Press **▲** and **▼** to scroll through the various settings and then press **OK** to select. Press  again to exit the Menu.

| Option | Description |
|--|--|
| Resolution  | Sets the video resolution. (Maximum resolution = 1080p) |
| Loop Recording  | Sets the time duration for each recording. If you choose the option 'Off' then the recorder will not loop record and the files will not be overwritten on the micro SD card. The duration of these recorded files will be around 10 minutes. |







| Option | Description |
|--|---|
| Exposure  | Sets the brightness sensitivity. |
| Motion Detection  | Enables this setting to allow the recorder to start recording when it detects movement. |
| Record Audio  | Turns audio recording on/off. |
| Date Stamp  | Displays or hides the date / time stamp on the recordings. |
| G-Sensor  | Detects significant or sudden movement; automatically locks the current recording. |
| Key Tone  | Turns on sounds when you press keys. |

PHOTO MODE

The CAM 250 lets you take snapshots of live video that is not recording. You cannot take a snapshot of live video while it is recording. You also cannot take a snapshot of recorded video playing back.

To take a snapshot:













1. Verify that a valid microSD card (not supplied) is inserted in the microSD slot.
2. Press **M**/ to select Photo mode;  displays in the upper left corner.
3. Press **OK**. The unit takes a snapshot of live video.



Photo Mode Menu

You cannot access menus when the the unit is recording. To access the Record menus, stop recording by pressing OK.

Like the Recording mode menu, press the **Menu** key () once to access the menu settings for the current mode. Press it twice to display the Settings menu.






The Settings menu is common to all modes. See page 14.

| Option | Description |
|---|--|
| Timer  | Sets the time gap for capturing an image. For example, if you select 2s, then that will be the delay between the OK button being pressed and the image being captured. |
| Resolution  | Defines the image resolution. |
| Continuous Mode  | Activates continuous shooting mode; you get up to 3 shots in one click. |
| Quality  | Defines the quality of the images you capture. |
| Sharpness  | Defines the clarity of detail in the images you capture. |
| White Balance  | Establishes the conditions to capture an image based on the options given. |
| ISO  | Increases or decreases the camera's light sensitivity. |
| EV (Exposure Value)  | Sets the brightness sensitivity. |
| Anti-Shake  | Reduces the camera shake and captures a better quality image. |


| <i>Option</i> | <i>Description</i> |
|--|---|
| Quick Review  | Sets the time duration the image displays on the screen after it has been captured. |
| Date Stamp  | Enables/disables the date and time on the image files. |

PLAYBACK MODE

This mode lets you play back recorded video or view snapshots.

1. Press **M**/ until either  (Playback) or  (Snapshot) displays in the upper left corner of the screen.
2. Press **OK** to view the recorded file/snapshot or  /  to scroll through the recorded files/snapshots.






Playback Mode Menu







Press the **Menu** key () once to access the Playback mode options. Scroll up or down and then press **OK** to select an option for the snapshot/video currently displaying.

- Delete. Delete the current file displayed or delete all files.
- Protect. Lock/unlock the current file displayed or lock/unlock all files.

SETTINGS MENU

Press  twice to access the Settings menu in any mode. The  icon displays in the upper left corner.

| <i>Option</i> | <i>Description</i> |
|--|--|
| Set Date/Time  | Changes the date and time by using the relevant  and  keys, and then press OK to confirm. |
| Auto Power Off  | Sets the time duration to automatically power off the unit when idle. |
| Language  | Select English (default), French, Spanish, or Portuguese. |

| Option | Description |
|---|---|
| Frequency  | Select 50Hz or 60Hz (default) and press OK . |
| Screen Saver  | Sets the time to automatically turn off the LCD after the recording starts. |
| Image Rotation  | Rotates the image. |
| Format  | Formats the microSD card. |
| Default Setting  | Returns all the settings back to the factory defaults. |
|  | Firmware Version |

CONNECTING TO A PC

If you connect the CAM 250 to a PC (using the supplied USB cable), the PC provides the following 2 options:

- Mass Storage
- PC Camera

Mass Storage

Select the Mass Storage option to manage and view the SD card contents on the PC.

1. When the unit is detected on the PC as an external drive, select to view the DCIM folder.
2. Click on the DCIM folder to open and view recordings/images arranged in folders according to the specified date. The locked/protected recordings have file names beginning with “SOS,” thus enabling you to easily distinguish them from the rest of the recordings.

PC Camera

This options allows you to use the CAM250 as a webcam.

TROUBLESHOOTING

| General Problems | Possible Solutions |
|---|---|
| The unit cannot take photos or record videos The unit automatically stops when recording | <ul style="list-style-type: none">• Ensure that the SD card is formatted properly and inserted correctly.• Use the recommended type of SD card (minimum 4GB Class 4) |
| Video is unclear | Ensure that there are no fingerprints or dirt on the lens. Ensure that the lens is always kept clean. |
| Dark images while recording water/sky | Adjust the EV setting. |
| Color of the images is not good | Set the 'white balance' setting to automatic. |
| Cross-stripe interference in an image | This is due to the light frequency. Change the light frequency depending on the local power supply. |
| The unit crashes | Using a pin or an unfolded paper clip, press and hold the Reset button to restart the unit. |

SPECIFICATIONS

| | |
|-----------------------------|---|
| Screen | 1.5 in. LCD |
| RAM | DDR1 |
| Operating Systems Supported | Windows 2000/XP/Vista/7/8/8.1 Mac OS 10+/LINUX (webcam/storage) |
| Operating Temp. | 32° F ~ 122° F (0° C ~ +50° C) |
| Storage Temp. | 25° F ~ 140° F (-10° C ~ +60° C) |
| Size | 66mm (L) x 31mm (H) x 41mm (W) |
| Working Humidity | 10 ~ 90% |
| Storage | microSD (up to 32GB), Class 4 and above |
| Recording Time | Recording Time: Off, 1 min, 3 min, 5 min, 10 min |
| Video Resolution | 1920x1080/1280x720/848x480/640x480/320x240 |
| View Angle | 140° |
| Zoom | 4X digital zoom |
| Power Supply | <ul style="list-style-type: none">• 12V Cigarette Car Charger Input: 12V~24V Output: DC5V/1A• 110mAh Built-in Lithium Polymer battery (10 min) |
| Sensor Type | 1.3 MP CMOS |
| Image Sensor | 1/3" |
| Video Frame Rate | 30fps |
| Sound Recording Channels | Yes (built-in microphone) 1 |
| G-sensor | Yes |
| Video Format | AVI |
| Photo Resolution | 12M/10M/8M/5M/3M, 2M, VGA, 1.3M |
| Video Codec | MJPEG |
| Audio Codec | PCM |

FCC/INDUSTRY CANADA INFORMATION

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modifications to this equipment may void compliance with the FCC Rules. Any change or modification must be approved in writing by Uniden. Changes or modifications not approved by Uniden could void the user's authority to operate the equipment.

L'appareil est conforme aux normes d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) Ce dispositif ne doit pas causer d'interférences et (2), il doit pouvoir accepter les interférences, incluant celles pouvant nuire à son fonctionnement normal.

Tous les changements apportés à cet appareil, s'ils ne sont pas expressément approuvés par Uniden ou toute utilisation de celui-ci d'une autre manière que celle décrite dans ce guide peut annuler votre autorisation de le faire fonctionner.

ONE-YEAR LIMITED WARRANTY

Important: Save your receipt! Evidence of original purchase is required for warranty service.

WARRANTOR: Uniden America Corporation ("Uniden") **ELEMENTS OF WARRANTY:** Uniden warrants, for one year, to the original retail owner, this Uniden Product to be free from defects in materials & craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate & be of no further effect 12 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit & return it to you without charge for parts, service, or any other cost

(except shipping & handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit.

THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE & ENTIRE WARRANTY PERTAINING TO THE PRODUCT & IS IN LIEU OF & EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, & you may also have other rights which vary from state to state. This warranty is void outside the United States of America & Canada.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY:
If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts & accessories originally packaged with the Product. Include evidence of original purchase & a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

Uniden America Service
C/O Saddle Creek
743 Henrietta Creek Rd., Suite 100
Roanoke, TX 76262

(800) 297-1023, 8 a.m. to 4:30 p.m., Central, Monday through Friday

