

# UNIDEN AUTOMOTIVE VIDEO RECORDER CAM 650



## IMPORTANT SAFETY INSTRUCTIONS

This product is not waterproof. Do not expose it 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 or side mirrors. Do not install it where it will interfere with airbag deployment

Pay attention to the road! Don't operate or focus on any device while driving.

Be sure the camera lens is kept clean and there is nothing blocking it.

Don't leave the device in direct sunlight or where temperatures could go above 140° F (60° C) for a long period of time

## FEATURES

- Full HD 1920 x 1080 @ 30fps
- 170° View Angle (diagonal)
- 4X Digital Zoom
- Built-In Microphone
- Internal rechargeable battery
- Loop Recording

- 2.7" screen
- G-Sensor with Collision Detection Mode
- Recording to microSD card
- GPS Built In

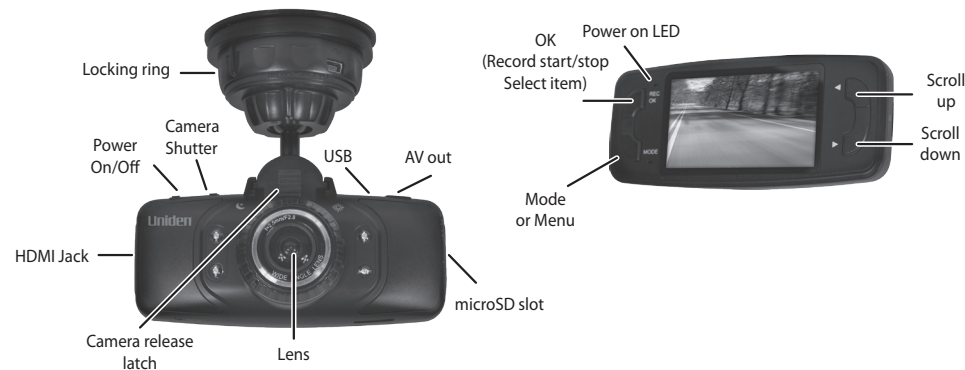
## WHAT'S IN THE BOX

- Camera/Recorder
- Car Adapter
- MiniUSB-USB Cable
- HDMI Cable
- Owner's Manual
- Windshield Mount

**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](http://www.uniden.com).**

## CONTROLS AND INDICATORS



## INSTALLING THE CAM650

### Installation Safety Warnings

**WARNING! Failure to comply with the following warnings could result in an accident or collision, resulting in death or serious injury.**

**Do not obstruct the driver's view or the operation of the vehicle itself.**

**Do not place it unsecured on the dashboard or in front/above an airbag.**

**Do not mount the camera where it will become a distraction if it becomes loose.**

**Do not attempt to operate the camera while driving. If you need to access the CAM650 to change settings, etc., pull off the road in a safe manner to do so.**

**Some state laws prohibit drivers from mounting anything on the windshield, or restrict mounting to specific areas of the windshield. It is the owner's responsibility to mount the CAM650 in compliance with local laws.**

1. Slide the CAM650 onto the bracket hook on the top of the windshield mount until it locks into position.
2. Be sure the locking ring is set to **UNLOCK**. Press the suction cup base to the windshield.
3. Turn the locking ring to **LOCK**. Make sure the stand is locked to the windshield.
4. Connect the car adapter to the unit and to the cigarette lighter power jack.
5. Press **POWER** to turn the unit on and check the view. Adjust the angle if needed.
6. To unmount the stand, turn the locking ring to the **UNLOCK** position then lift the plastic flap on the base to release it from the windshield.

## OPERATION

### SET UP THE CAM650

**If you are recording (red dot on the screen is flashing), press REC OK to stop recording. You cannot enter the menus if CAM650 is recording.**



Select a mode and then use the menus for that mode to set up your camera. Press **MODE** to select a mode [Video, Still (photo), or Playback] and then press and hold **MODE** for a moment to display the menus for that mode. The menus for Video and Still have 2 options – that mode plus Setting. Playback has three options; you can delete or protect files on the microSD card (not included - class 10 microSD card recommended), or you can watch the recorded files in a slideshow.

Press to toggle between the menus, and use and to scroll through the menu selections. Press **REC OK** to select a menu option.



### Video Mode

Press **MODE** until displays in the upper left corner of the screen. Press and hold **MODE** momentarily to display the Video menu options and press to toggle between the menus. Press and to scroll through the menu selections. Press **REC OK** to select a menu option.



VIDEO MENU	SETTING MENU
Resolution	Date/Time
Loop Recording	Car/Driver ID
Exposure	Auto Power Off
Motion Detection	Key Click Sound

<b>VIDEO MENU</b> 	<b>SETTING MENU</b> 
Record Audio	Language
Date Stamp	GPS Setting
G Sensor	TV Mode
	Frequency
	IR LED
	Screen Saver
	Format
	Default Setting
	Version


### Still (Camera) Mode




Like Video mode, Still mode has two menu selections. Press **MODE** until  displays in the upper left corner of the screen. Press and hold **MODE** momentarily to display the Still menu options and press  to toggle between the menus. Press **▶** and **◀** to scroll through the menu selections. Press **REC OK** to select a menu option.

*When you are viewing a snapshot, use **▶** and **◀** to zoom in and out.*

<b>STILL MENU</b> 	<b>SETTING MENU</b> 
Resolution	Date/Time
Continuous Mode	Car/Driver ID
Quality	Auto Power Off
Sharpness	Key Click Sound
White Balance	Language
ISO	GPS Setting
Exposure	TV Mode
Anti-Shaking	Frequency
Date Stamp	IR LED
	Screen Saver
	Format
	Default Setting
	Version


### Playback Mode





Playback mode lets you delete or save files from the microSD card. Press **MODE** until  displays in the upper left corner of the screen. Press **MODE** once to display the Delete menu options or twice to display the Protect menu options..

<b>DELETE MENU</b> 	<b>PROTECT MENU</b> 	<b>Slideshow</b> 
Delete Current	Lock Current	2 Seconds
Delete All	Unlock Current	5 Seconds
	Lock All	8 Seconds
	Unlock All	

**As long as unlocked files that can be overwritten are on the microSD card, locked files will not be overwritten. However, if the microSD card fills with locked files (no unlocked files), the oldest locked file will be overwritten.**  
**Transfer important files to your PC.**

### OPERATION

<b>HOW DO I . . . ?</b>	<b>DO THIS...</b>
Set the date and time?	Select Still mode. Press and hold <b>MODE</b> for a moment to access the menu options. Press <b>MODE</b> again to switch to Setup menu options. Use <b>▶</b> and <b>◀</b> to scroll to Date/Time. Press <b>REC OK</b> to enter Date/Time setup. Once you are on the Date/Time screen, use <b>▶</b> and <b>◀</b> to set the date and time and press  to move to the next or previous item to set. Press <b>MODE</b> to return to Still main screen.
Start/Stop recording?	Recording begins automatically when the unit is turned on. To stop recording, press <b>REC OK</b> . To start recording again, press <b>REC OK</b> .
Lock/Unlock files while recording?	Press <b>MODE</b> .
Turn Motion Detection on and off while recording?	Press and hold <b>MODE</b> .

HOW DO I . . . ?	DO THIS...
Take snapshots?	In any mode, press  . The camera changes to Still mode and takes a snapshot.
Adjust photo quality?	Select Still mode. Press and hold <b>MODE</b> for a moment to access Still options. Use <b>▶</b> and <b>◀</b> to scroll through the options. You can adjust the quality, sharpness, white balance, ISO and exposure.
Delete files from the microSD card?	Select PLAYBACK mode. Press and hold <b>MODE</b> for a moment to access the Playback options. Use <b>▶</b> and <b>◀</b> to scroll to Delete. Press <b>REC OK</b> to delete.
Review video on the camera?	Select Playback mode. Either  (video file) or  (snapshot) displays. The OK icon  also displays to indicate that the video is ready to play. Press <b>REC OK</b> to view and pause the video.
Save files from the microSD card to the PC.	<ol style="list-style-type: none"> <li>1. Remove microSD card from camera and insert into the adapter.</li> <li>2. Insert the adapter with the microSD card into computer. Find the files and copy the files you want onto your PC.</li> </ol>
View video and GPS data on the PC.	<ol style="list-style-type: none"> <li>1. Go to <a href="http://www.unidensupport.com">www.unidensupport.com</a> to download the CAM650 player software onto your PC.</li> <li>2. Insert the microSD card from the camera into the adapter.</li> <li>3. Insert the adapter into your computer.</li> <li>4. Run the player software.</li> </ol>

## MAINTENANCE

Use common sense when caring for your CAM650. Be sure the lens remains clean and free of debris.

Do not leave the camera exposed to high temperatures or locations. Remove it and store out of the heat.

Do not operate the device outside the following temperature range: 14° F ~ 140° F.

Contact your local waste disposal department to dispose of the camera according to local laws and regulations.

## TROUBLESHOOTING

IF...	TRY THIS...
You cannot record video or take photos.	<ul style="list-style-type: none"> <li>• Check the microSD card; it might be out of space. Either delete files from that microSD card or use a new microSD card.</li> <li>• Check if the microSD card is locked. Unlock it if so.</li> </ul>
“File Error” appears when photos or video are replayed.	Format card error. Reformat your microSD card.
Video is unclear.	Clean the lens.
You cannot access menus.	Press <b>REC OK</b> to stop recording.

## SPECIFICATIONS

Screen	2.7 in. LCD
RAM	DDR3
Storage	microSD (up to 32GB)
AV Input/Output	USB 2.0 HDMI
Power Supply	250mAh Built-in Polymer Lithium battery (10 min)
Power Type	12V Car Charger
Sensor Type	CMOS
View Angle (each lens)	170° (diagonal)
Optical Zoom	4X digital zoom
Image Sensor, inch	1/3
Video Frame Rate	30fps
Sound Recording	Yes (built-in microphone)
Channels	1
G-sensor	Yes
GPS	Yes
Video Format	MOV

Photo Resolution	16M/12M/10M/8M/5M/3M
Video Codec	H.264 (avc1)
Audio Codec	PCM
Operating Systems Supported	Windows 2000/XP/Vista/7/8/8.1 Mac OS 10+/LINUX (webcam and storage)
Operating Temperature	14° F ~ 140° F -10° C ~ +60° C
Storage Temperature	-4° F ~ 158° F -20° C ~ +70° C
Working Humidity	10 ~ 90%

## 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: 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