

LOREX ROAD WARRIOR™

MOBILE DIGITAL VIDEO RECORDER

INSTRUCTION MANUAL

English Version 2.0



MODEL:
RW2S SERIES



Thank you for purchasing this product. Lorex is committed to providing our customers with a high quality, reliable security solution.

This manual refers to the following model(s):

- RW2S Series

For more information on this product, firmware updates, and accessory products, please visit us at:

www.lorexcctv.com



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER. NO USER SERVICABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products' enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF THE PLUG TO THE WIDE SLOT AND FULLY INSERT.

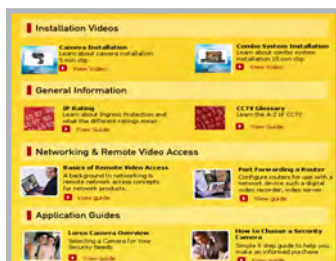
BEFORE YOU START

THIS PRODUCT MAY REQUIRE PROFESSIONAL INSTALLATION

LOREX IS COMMITTED TO FULFILLING YOUR SECURITY NEEDS



- We have developed user friendly products and documentation. Please read the Quick Start Guide and User Manual before you install this product.



- Consumer Guides and Video Tutorials are available on our web site at www.lorexcctv.com/support



- If you require further installation assistance, please visit www.lorexcctv.com/installation or contact a professional installer.



- Please refer to the “Need Help” insert for technical support and customer care information.



- Please note that once the components of this product have been unsealed, you cannot return this product directly to the store without the original packaging.

NEED HELP?

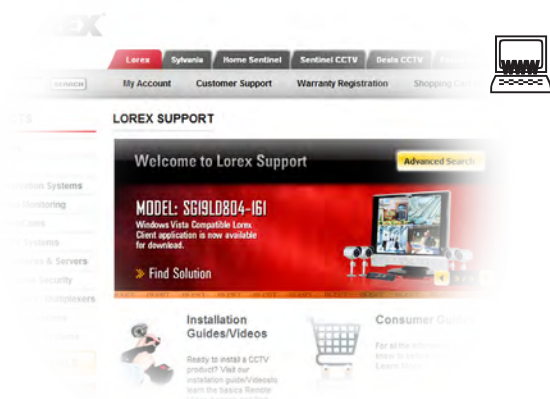


CONTACT US FIRST

DO NOT RETURN THIS PRODUCT TO THE STORE

Please make sure to register your product at www.lorexcctv.com to receive product updates and information

3 EASY WAYS TO CONTACT US:



Online:

Product Support is available 24/7 including product information, user manuals, quick start up guides and FAQ's at [**www.lorexcctv.com/support**](http://www.lorexcctv.com/support)

To order accessories, visit [**www.lorexcctv.com**](http://www.lorexcctv.com)



By Email:

Technical Support (for technical/installation issues)
[**support@lorexcorp.com**](mailto:support@lorexcorp.com)

Customer Care (for warranty and accessory sales)
[**customerservice@lorexcorp.com**](mailto:customerservice@lorexcorp.com)

Customer Feedback
[**info@lorexcorp.com**](mailto:info@lorexcorp.com)



By Phone:

NORTH AMERICA:

CUSTOMER SERVICE: 1-888-425-6739 (1-888-42-LOREX)

TECH SUPPORT: 1-877-755-6739 (1-877-75-LOREX)

MEXICO: 1-800-514-6739

INTERNATIONAL: +800-425-6739-0

(Example: From the UK, dial 00 instead of +)



AVANT DE COMMENCER

CE PRODUIT POURRAIT EXIGER UNE INSTALLATION PROFESSIONNELLE

LOREX S'ENGAGE À SATISFAIRE VOS BESOINS SÉCURITAIRES

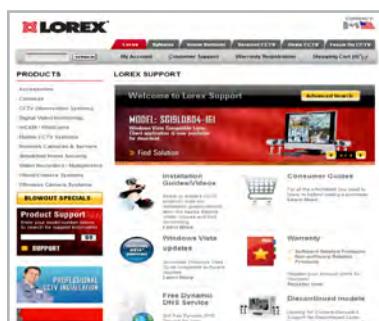
- Veuillez lire le guide de démarrage rapide et le mode d'emploi avant d'installer ce produit.
- Les guides du consommateur et les séances de tutorat vidéo sont disponibles sur l'Internet en visitant www.lorexcctv.com/support
- Si vous avez besoin de l'aide pour l'installation, veuillez visiter www.lorexcctv.com/installation ou contactez un spécialiste en installation
- Veuillez référer à l'insert "Need Help" pour obtenir de l'information sur le service à la clientèle et le support technique
- Veuillez constater qu'une fois que les composants de ce produit ont été retirés de l'emballage, vous ne pourrez plus retourner ce produit directement au magasin.

ANTES DE EMPEZAR

ESTE PRODUCTO PUEDE EXIGIR UNA INSTALACIÓN PROFESIONAL

LOREX SE COMPROMETE A SATISFACER SUS NECESIDADES EN SEGURIDAD

- Favor de leer la guía de instalación rápida y la guía del usuario antes de instalar este producto.
- Puede conseguir las guías del consumidor y los cursos en enseñanza video sobre el Internet visitando www.lorexcctv.com/support
- Si necesita ayuda para la instalación, visite www.lorexcctv.com/installation o contacte un especialista en instalaciones
- Favor de referir al documento "Need Help" para obtener información acerca del servicio al cliente y al soporte técnico
- Favor de notar que una vez que los componentes de este producto han sido removidos del embalaje, no podrá devolver este producto directamente a la tienda



 **LOREX®**
www.lorexcctv.com



NECESITA AYUDA COMUNÍQUESE PRIMERO CON NOSOTROS



VOUS AVEZ BESOIN D'AIDE? CONTACTEZ-NOUS D'ABORD

NO DEVUELVA ESTE PRODUCTO A LA TIENDA

NE RETOURNEZ PAS CE PRODUIT AU MAGASIN

Cerciórese de por favor colocar su producto en www.lorexcctv.com/registration para recibir actualizaciones y la información del producto

Veuillez veiller à enregistrer votre produit à www.lorexcctv.com/registration pour recevoir des mises à jour et l'information de produit

3 MANERAS SENCILLAS DE COMUNICARSE CON NOSOTROS:



En línea:

apoyo al producto disponible 24/7 incluyendo información del producto, manuales para el usuario, guías de inicio rápido y preguntas más frecuentes en

www.lorexcctv.com/support

Para colocar pedidos de accesorios, visite

www.lorexcctv.com



Por Correo Electrónico:

soporte técnico (para asuntos técnicos/la instalación)

support@lorexcorp.com

O

servicio al cliente (respecto a la garantía y a la venta de accesorios)

customerservice@lorexcorp.com

Comentarios de cliente

info@lorexcorp.com



Por Teléfono:

L'AMÉRIQUE DU NORD:

ATENCIÓN AL CLIENTE: 1-888-425-6739 (1-888-42-LOREX)

SOPORTE TÉCNICO: 1-877-755-6739 (1-877-75-LOREX)

MEXICO: 1-800-514-6739

INTERNACIONAL: +800-425-6739-0

(Ejemplo: Desde el Reino Unido, marque el 00 en lugar del +)

sus opiniones son bienvenidas en

info@lorexcorp.com

para colocar pedidos de accesorios, visite

www.lorexcctv.com



En ligne:

le support des produits est disponible 24 heures sur 24, 7 jours sur 7, y compris les informations sur les produits, les guides de l'utilisateur, les guides de démarrage rapide et les foires à questions

www.lorexcctv.com/support

Pour commander des accessoires, visitez

www.lorexcctv.com



Par Courriel:

support technique (pour les questions techniques et d'installation) support@lorexcorp.com

OU

service à la clientèle (pour les questions de garantie et les ventes d'accessoires)

customerservice@lorexcorp.com

Commentaires des clients

info@lorexcorp.com



Par Téléphone:

NORTE AMÉRICA:

SERVICE À LA CLIENTÈLE: 1-888-425-6739 (1-888-42-LOREX)

SUPPORT TECHNIQUE: 1-877-755-6739 (1-877-75-LOREX)

MEXICO: 1-800-514-6739

INTERNATIONAL: +800-425-6739-0

(Exemple: À partir du Royaume-Uni, composez 00 au lieu de +)

nous serions heureux de recevoir vos

commentaires à info@lorexcorp.com pour

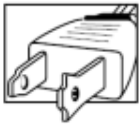


commander des accessoires, visitez

www.lorexcctv.com

Important Safeguards

In addition to the careful attention devoted to quality standards in the manufacturing process of your video product, safety is a major factor in the design of every instrument. However, safety is your responsibility too. This sheet lists important information that will help to assure your enjoyment and proper use of the video product and accessory equipment. Please read them carefully before operating and using your video product.

Installation

1. **Read and Follow Instructions** - All the safety and operating instructions should be read before the video product is operated. Follow all operating instructions.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - Comply with all warnings on the video product and in the operating instructions.
4. **Polarization** - Do not defeat the safety purpose of the polarized or grounding-type plug.

A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety.
If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
5. **Power Sources** - This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your location, consult your video dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.
6. **Overloading** - Do not overload wall outlets of extension cords as this can result in the risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation, have it replaced by your service technician.
7. **Power Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the video product.
8. **Ventilation** - Slots and openings in the case are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video equipment on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the video product manufacturer's instructions have been followed.
9. **Attachments** - Do not use attachments unless recommended by the video product manufacturer as they may cause a hazard.
10. **Camera Extension Cables** - Check the rating of your extension cable(s) to verify compliance with your local authority regulations prior to installation.
11. **Water and Moisture** - Do not use this video product near water. For example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, near a swimming pool and the like.
Caution: Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark of CSA certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.
12. **Accessories** - Do not place this video equipment on an unstable cart, stand, tripod, or table. The video equipment may fall, causing serious damage to the video product. Use this video product only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the video product. Any mounting of the product should follow the manufacturer's instructions and use a mounting accessory recommended by the manufacturer.


Service

13. **Service** - Do not attempt to service this video equipment yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
14. **Conditions Requiring Service** - Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power supply cord or plug is damaged.
 - If liquid has been spilled or objects have fallen into the video product.
 - If the video product has been exposed to rain or water.
 - If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
 - If the video product has been dropped or the cabinet has been damaged.
 - When the video product exhibits a distinct change in performance. This indicates a need for service.
15. **Replacement Parts** - When replacement parts are required, have the service technician verify that the replacements used have the same safety characteristics as the original parts. Use of replacements specified by the video product manufacturer can prevent fire, electric shock or other hazards.
16. **Safety Check** - Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the video product is in safe operating condition.
17. **Wall or Ceiling Mounting** - The cameras provided with this system should be mounted to a wall or ceiling only as instructed in this guide, using the provided mounting brackets.
18. **Heat** - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Use

19. **Cleaning** - Unplug the video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
20. **Product and Cart Combination** - Video and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the video product and car combination to overturn.
21. **Object and Liquid Entry** - Never push objects for any kind into this video product through openings as they may touch dangerous voltage points or "short-out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.
22. **Lightning** - For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power line surges.

General Precautions

1. All warnings and instructions in this manual should be followed.
2. Remove the plug from the outlet before cleaning. Do not use liquid aerosol detergents. Use a water dampened cloth for cleaning.
3. Do not use this unit in humid or wet places.
4. Keep enough space around the unit for ventilation. Slots and openings in the storage cabinet should not be blocked.
5. During lightning storms, or when the unit is not used for a long time, disconnect the power supply, antenna, and cables to protect the unit from electrical surge.

FCC CLASS B NOTICE

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instruction, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment on and off), the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio or television technician for assistance

This equipment has been certified and found to comply with the limits regulated by FCC, EMC, and LVD. Therefore, it is designated to provide reasonable protection against interference and will not cause interference with other appliance usage.

However, it is imperative that the user follows the guidelines in this manual to avoid improper usage which may result in damage to the unit, electrical shock and fire hazard injury.

In order to improve the feature functions and quality of this product, the specifications are subject to change without notice from time to time.



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Features



Lorex Road Warrior



Lorex Viewer software

Thank you for purchasing the Lorex Road Warrior. The Road Warrior features h.264 video compression for ultra-clear video, and a built-in GPS antenna to track your location in the recorded videos. Intuitive playback software allows you to archive, manage and view your videos. The Road Warrior is designed to record daily driving events inside your vehicle, and from the driver's view. To play back the events, use the included Lorex Viewer software.

Lorex Road Warrior features

- 8 hour recording time on a 4 GB (gigabyte) SDHC memory card (included); (Supports a maximum of a 32GB SDHC memory card).
- 2 high resolution color cameras to record a vehicle's interior and driver's view
- Wide Viewing angles: Driver-view camera: 175° field of view / In-Car camera: 120° field of view
- H.264 video compression for high quality, compact video files
- Record driving events and pinpoint the location of the event using Google Maps™ (Internet connection required).
- Integrated GPS antenna, impact sensor and microphone
- Record video events inside and outside your vehicle
- Automatically tags the video if an emergency event occurs for easy searching
- IR LEDs for night vision recording inside the vehicle

Lorex Viewer

- Manage, backup and view your recorded videos
- Easy, intuitive menu navigation
- View your video while tracking the location of your vehicle with Google Maps (Internet connection required).
- Save videos as AVI files for easy sharing
- Sort videos by event type

*Please visit www.lorexctv.com for information, firmware, and compatibility updates

As our products are subject to continuous improvement, Lorex Technology Inc. and its subsidiaries reserve the right to modify product design, specifications, and prices without notice and without incurring any obligation. E&OE

TABLE OF CONTENTS

Contents	1
Before You Begin	2
Setting the Time and Date	2
Basic Installation	3
Getting To Know Your Road Warrior	4
Mounting Bracket	5
Mounting your Road Warrior	5
<i>Installing the Panic Button extension</i>	6
<i>Adjusting the Driver-View Camera</i>	6
Recording With Your Road Warrior	7
Calibrating Camera Angle (Optional)	7
How the Road Warrior Interprets Bumps and Impacts	7
Using the Emergency Button	7
Lorex Viewer	8
Using Lorex Viewer	10
Viewing Recorded Video Files	10
<i>Using Video Controls</i>	11
Frame Step	11
Forward/Reverse Playback & Pause	11
Timeline Slider	11
Video Speed Slider	11
Single-Channel View	11
Two-Channel View	12
Picture-in-Picture (PIP) View	12
Enabling Google Maps View	12
Converting files to AVI	13
<i>Printing Video Images</i>	13
Watermarking Video Images	14
Configuring your Road Warrior	15
System Tab	15
<i>Changing Camera Frame Rate</i>	15
<i>Adjusting speedometer Unit of Measurement</i>	15
<i>Looping Video Recording</i>	15
<i>Automatically Restarting your Road Warrior</i>	15
<i>Disabling Audio in Recording</i>	15

Event Tab	16
<i>Choosing What Events to Record</i>	16
<i>Adjusting Impact Sensitivity</i>	16
<i>Changing Pre and Post Recording Time</i>	16
<i>Adjusting Speed Settings</i>	16
User Settings Tab	17
<i>Changing the Administrator Password</i>	17
<i>Imbedding User Information in Recordings</i>	17
Removable Disk Tab	17
<i>Selecting Memory Card Directory</i>	17
<i>Checking Memory Card Capacity</i>	17
<i>Formatting the Memory Card</i>	17
Version Tab	18
Restoring User Settings	18
Tips	19
Back up your videos	19
Replacing your SDHC memory card	19
Maintaining memory card health	19
Viewing videos on your SDHC memory card	19
Obtaining GPS signals	19
Preventing data loss on your SDHC memory card	19
Mounting The Road Warrior - FAQ	20
<i>What is the best location to mount the Road Warrior?</i>	20
<i>How do I remove the mounting bracket on my windshield?</i>	20
<i>Why does the Road Warrior come included with double-sided adhesive?</i>	20
Appendix A: Upgrading Road Warrior Firmware	21
Appendix B: Lorex Viewer System Requirements	22
Appendix C: Road Warrior Technical Specifications	23
Troubleshooting Your Road Warrior	24

CONTENTS

The Road Warrior includes the following components:



LOREX ROAD WARRIOR



**MOUNTING BRACKET WITH
BUILT-IN GPS ANTENNA**



VIDEO CABLE



CAR ADAPTER



**PANIC BUTTON
EXTENSION**



**ELECTRONIC INSTRUCTION
MANUAL (LOCATED IN SOFTWARE
CD), QUICKSTART GUIDE &
SOFTWARE CD**



SDHC MEMORY CARD



SDHC MEMORY CARD READER



**DOUBLE SIDED ADHESIVE,
ZIP TIES, ZIP TIE ANCHORS**

**CHECK YOUR PACKAGE TO CONFIRM THAT YOU HAVE RECEIVED THE COMPLETE SYSTEM,
INCLUDING ALL COMPONENTS SHOWN ABOVE.**

CONTENT SPECIFICATIONS MAY CHANGE WITHOUT NOTICE DUE TO PRODUCT IMPROVEMENTS.

BEFORE YOU BEGIN



It is highly recommended to set the time and date on your Road Warrior before you begin recording.

If you do not set the time and date, the video you record will not have the correct time and date stamp, reducing effectiveness for court evidence.

Setting the Time and Date

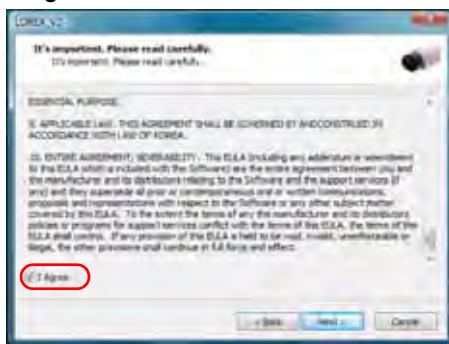
To set the time and date, you must first install the Lorex Viewer software (included).

To install the Lorex Viewer software:

1. Insert the Lorex Viewer CD into your PC's CD/DVD drive.
2. Locate the Lorex_V2 (3.x.x).exe file on the CD.



3. Double-click the Lorex_V2 (3.x.x).exe file. The installer window appears.
4. Click **Next**.
5. Read and **scroll to the very bottom** of the software User Agreement. Select the **"I Agree"** box and click **Next**.



6. Choose **Automatic Installation** or **Manual Installation** and click **Next**. The "Select Installation Method" window appears.
7. Click **Finish** when program installation completes. Lorex Viewer opens.

To adjust the Time and Date with the Lorex Viewer open:

1. Insert the SDHC memory card into the memory card reader and plug memory card reader into your computer's USB port.

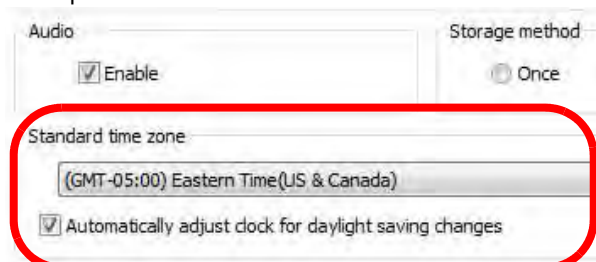
NOTE: Use the included memory card reader to ensure compatibility.

NOTE: The SDHC memory card slides smoothly all the way into the memory card reader. The SDHC memory card goes in one way only. Do not force in the card.

2. Click **OK** on the log in window prompt. The default login is: **admin**. The default password is left blank.



3. Click [Setup]. The Setup window opens.



4. In the Systems tab, under Standard time zone, select your time zone and daylight savings settings. Click **OK**. The Save As window appears.
5. Locate the **SDHC memory card reader directory**. Click **Save**.

NOTE: Make sure that you save the **.JDF** file onto your SDHC memory card, and **NOT** onto your PC hard drive (ie. C:\). All Road Warrior Settings must save onto the SDHC memory card for settings to take effect.

6. Eject memory card and insert it into the Road Warrior. Your Road Warrior automatically synchronizes the date with the satellite once powered on.

BASIC INSTALLATION

1. Insert the SDHC memory card

- Open the SD memory slot cover (Figure 1.0).
- Insert the SDHC memory card into the slot with the sticker face up, and upright. Push memory card firmly until you hear a click. The memory card locks in place.
- Close SD memory slot cover.

NOTE: The SDHC memory card should slide smoothly into the memory slot. The SDHC memory card is designed to go in one way only. Do not force in the card.



Figure 1.0 Insert SDHC memory card.

2. Install the mounting bracket

- Stick the double-sided adhesive onto the base of the mounting bracket (Figure 1.1).
- Plug the mini-jack connector from the mounting bracket into the side of the Road Warrior labeled GPS (Figure 1.2).
- Slide mounting bracket upwards on the back of the device (Figure 1.3). The mounting bracket locks in place.
- Connect the car adapter to the Road Warrior and cigar lighter.



Figure 1.1 Stick double-sided adhesive to base.



Figure 1.2 Plug minijack into GPS port.

3. Mount the Road Warrior

NOTE: See “Mounting your Road Warrior” on page 5 for mounting tips.

- Orient the unit upright (Figure 1.4). Firmly press the mounting bracket onto the windshield. Hold for three seconds to secure.
- Loosen the screws on the mounting bracket to adjust the mounting angle. Tighten screws to secure mounting position.



Figure 1.3 Slide mounting bracket upwards to lock.



Figure 1.4 Mount Road Warrior to windshield.

CAUTION: Always have a clear view of the road. Adjust the positioning of the Road Warrior so that it does not affect your driving reflexes and traffic awareness. **Check local laws before mounting unit on windshield.**

GETTING TO KNOW YOUR ROAD WARRIOR



Figure 1.5 Top, bottom and side views of the Road Warrior.
Familiarize yourself with the features of the unit before driving.

1. **Infrared LEDs (IR LEDs):** Provides infrared lighting for night time recording of car interior.
2. **In-car Camera:** Records video of car interior at a VGA resolution of 640x480
3. **Daylight Sensor:** Detects lighting conditions to enable or disable IR LEDs.
4. **REC LED:** Glows solid red to indicate the unit is recording. Flickers on and off during sudden movements or bumps.
GPS LED: Glows solid green to indicate GPS tracking is enabled. Flickers on and off when locating signal.
POWER LED: Glows solid red to indicate unit is powered.
5. **Emergency Button:** Immediately records event when pressed.
6. **Mic:** Records audio of car interior.
7. **DC12V Port:** Port for 12V car adapter (included).
8. **Channel Switch Button:** Changes video views when connected to an external monitor. For details, see “Calibrating Camera Angle (Optional)” on page 7.
9. **Mini Serial Port:** Do not use. For developmental purposes only.
10. **GPS Jack:** Receives GPS signal from GPS antenna built into the mounting bracket. See “Mounting Bracket” on page 5 for details.
11. **Monitor Out:** Outputs analog video to a portable display. See “Recording With Your Road Warrior” on page 7 for details.
12. **SDHC (Secure Digital High Capacity) Memory Slot:** Records video onto SDHC memory cards. The maximum capacity the Road Warrior will detect is 32 GB.
13. **Emergency Button Port:** Connect the Panic Button extension cord to provide easy access to the emergency button. Remove rubber protector with a thin, rigid object.
14. **Adjustable Driver-View Camera:** Records the driver view. Push camera up and down to adjust camera angle. Camera should click and lock into place with each push.
15. **Rear Mounting Slot:** Locks mounting bracket onto the unit.

Mounting Bracket



Figure 1.6 Mounting bracket with built-in GPS antenna. Plug GPS mini-jack into the GPS port on the side of the unit.

1. **Mini-jack connector:** Transmits GPS tracking information to the Road Warrior.
2. **GPS Antenna:** The GPS (Global Positioning System) antenna tracks your current location in relation to satellites orbiting around the globe. The GPS antenna records information onto the SDHC memory card. When watching videos with the Lorex Viewer, you can track the location and speed of your vehicle on Google Maps.

NOTE: The built-in GPS antenna **DOES NOT** act as a portable navigation system. The purpose of the GPS antenna on the mounting bracket is to track your location, and transmit the information to the SDHC memory card only. See "Enabling Google Maps View" on page 12 for details.

3. **Mounting Bracket Screws:** Tightens and loosens the mounting bracket elbow. Twist screws clockwise to tighten, counter clockwise to loosen.

Mounting your Road Warrior

Mounting the Road Warrior at the correct angle allows the unit to receive optimal GPS reception and recording angles.

REMINDER: The mounting bracket adhesive has a powerful bond to surfaces. Double-check the mounting position before securing in place.

NOTE: Apply double-sided adhesive to the mounting bracket base, and orient unit upright before mounting (Figure 1.7).



Figure 1.7 Secure Road Warrior to the right side of your rear-view mirror to prevent viewing obstruction.

To mount your Road Warrior for the first time:

1. Secure unit **to the right** of your rear-view mirror. Position the unit so that it does not interfere with your view. See "Mounting The Road Warrior - FAQ" on page 20 for more details.
2. Press and hold the mounting base firmly to the windshield for three seconds to secure the unit in place.
3. Plug in the car adapter to the Road Warrior and into the cigarette lighter to power up.

Mounting your Road Warrior (cont'd)

4. Adjust the angle of the mounting bracket by loosening the screws on the side (Figure 1.8). Tighten screws to secure position.

NOTE: The Road Warrior takes 30 seconds to start up. Wait for the GPS LED to glow solid green, followed by a beep before driving. The REC and POWER LEDs glow solid red. During normal operation, the REC, GPS and POWER LED will always be on.

Installing the Panic Button extension

The panic button extension allows you to bookmark an event as an "Emergency" for easy searching in the Lorex Viewer. Emergency recordings capture video at 30 FPS for enhanced detail. Place the panic button extension where you can easily reach.

To install the Panic Button extension cable:

1. Remove rubber cover on the side of the unit with a thin, rigid object (Figure 1.9).
2. Insert the end of the panic button extension into the **EMGCY** port (Figure 2.0).
3. Run the cable along the dashboard to conceal the cable out of view.
4. Remove the double-sided adhesive on the back of the panic button, and stick on surface (Figure 2.1).

NOTE: The end of the panic button extension connects one way into the EMGCY port. Do not force.

Adjusting the Driver-View Camera

The Driver-View Camera adjusts to three angles. Push camera up or down to lock in place.



Figure 1.8 Loosen screws to adjust mounting bracket elbow for optimal angle.



Figure 1.9 Remove rubber cover to the EMGCY port with a paper clip.



Figure 2.0 Insert the connector firmly into the EMGCY port. The connector only connects one way. Do not force.



Figure 2.1 Secure panic button in an easy to reach location on the car dashboard.

RECORDING WITH YOUR ROAD WARRIOR

The Road Warrior records continuously once it receives power. Before recording, familiarize yourself with how the Road Warrior records events.

Calibrating Camera Angle (Optional)

The Road Warrior comes with a built-in monitor-out port. You can hook up a portable monitor (not included) to view what the Road Warrior records in real-time. This ensures that you have the best possible recording angle.

To connect your portable display to the Road Warrior:

1. Connect the mini-jack from the video cable into the **MONITOR** port on the side of the unit (Figure 2.2).
2. Connect the yellow RCA video cable into the portable display (not included). The video displays on the monitor (Figure 2.3)
3. Adjust camera angles as needed.

To change camera views:

- Press the **CH** button on the side of the unit to change between channel 1 and channel 2. This switches camera views between the in-car camera and the Driver-View camera.

How the Road Warrior Interprets Bumps and Impacts

When your vehicle goes over a bump or receives a sudden force, the built-in sensor causes the REC LED on the unit to flash for several seconds. This means the Road Warrior has bookmarked the event. When an event is bookmarked, you can easily categorize and find the particular moment in the Event window when you encountered the sudden bump or impact. See "Viewing Recorded Video Files" on page 10 for details on how to find videos by events.

Using the Emergency Button

The emergency button engages the Road Warrior to record at maximum quality, and marks the event as "Emergency" when viewing the file in the Lorex viewer.

When you press the emergency button:

- a. The video automatically pre-records and post records a set duration that you can configure. See "Changing Pre and Post Recording Time" on page 16 for details.
- b. The video is tagged as an "Emergency" event that you can later search and categorize the video using the included Lorex Viewer. The video records at maximum resolution (30 FPS).



Figure 2.2 Monitor out port on the side of the Road Warrior.



Figure 2.3 View your camera angle by hooking up an LCD to the Road Warrior.








Figure 2.4 Press the emergency button to trigger high-quality video recording.

LOREX VIEWER








The Lorex Viewer allows you to organize, view, and save your video files. The Lorex Viewer also allows you to change specific recording parameters of your Road Warrior.



1. **Main Viewer Window:** Displays video currently being played.
2. **Login Prompt:** Login window. By default, the login name is **admin**; password field is left blank.
3. **Video Slider:** Skips video timeline backward and forward. Drag slider bar to jump backward or forward in a video.
4. **Video Controls:**
 -  **Step Backward Single Frame:** View reverse playback one frame at a time.
 -  **Rewind:** Reverse playback.
 -  **Pause:** Pause video playback.
 -  **Play:** Begins forward playback.
 -  **Step Forward Single Frame:** View forward playback one frame at a time.

Lorex Viewer (cont'd)



5. **Vehicle Speed Display:** Shows current speed of vehicle.
6. **Playback Speed Slider:** Adjust playback speed of video from -4X to 6X (-1x, -2x, 1x, 2x, 4x, 6x).
7. **Channel View Modes:**
 -  **Single Channel Mode:** View a single channel of video.
 -  **Dual Channel Mode:** View two channels of video in split-screen.
 -  **Picture-in-Picture Mode (PIP):** View two channels of video simultaneously: one large screen, and a smaller inset in the bottom right corner.
8. **Volume Slider:** Adjust volume from low to high.
9. **Viewer Settings:**
 -  **Browse button:** Opens a tree-directory of files of your hard-drive.
 -  **Backup button:** Save video files as .AVI (See "Converting files to AVI" on page 13)
 -  **Setup button:** Configure Road Warrior time and recording parameters.
 -  **Print button:** Print JPEG (.jpg) image of channel 1 or channel 2.
10. **Google Map Viewer:** Track the location of your vehicle on Google Maps. (Internet connection required)
11. **Event Window:** Lists recorded events on the SDHC memory card.
12. **Event Search Button:** Search event by incident type: Overspeed, emergency, impact, sudden start, sudden stop.

USING LOREX VIEWER

Lorex Viewer allows you to play, save, and manage your recorded footage from the Road Warrior SDHC memory card. Always use Lorex Viewer to play files recorded from the Road Warrior.

Viewing Recorded Video Files

Once you have recorded video files on your Road Warrior, you can view them on the Lorex Viewer.

To view your recorded video files:


Connect the memory card to the computer

1. Insert the SDHC memory card from the Road Warrior into the memory card reader.
2. Connect the memory card reader to a USB port on your PC.

Start Lorex Viewer


1. Open Lorex Viewer from the desktop shortcut, or navigate to **Start>Programs>Lorex_V2>Lorex_V2**. Your video files on the memory card appear in the Event Viewer on the top-right corner of the Lorex Viewer.



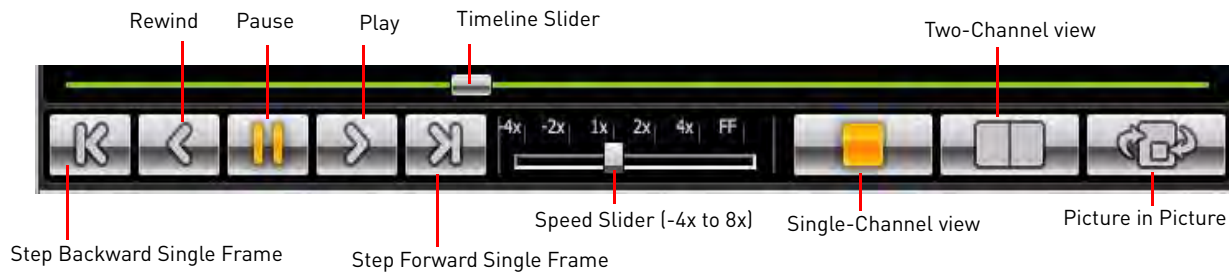
2. Click on the desired file in the Event Viewer. Your video files are categorized by Time/Date or by Event type. Click on Time/Date or Event to sort. For example, if you wanted to sort your videos by event type, click **Event** in the Event Window.
3. Click  (Play) to start video playback.

Password Protecting Lorex Viewer

To password protect Lorex Viewer:

1. Click  (setup) and then click the **User Settings** tab.
 2. Under **User Info** enter your desired user name and password. Click **OK** to save.
- The default user name is **admin** and the password field is left blank.



Using Video Controls



Frame Step

Using the frame step button, you can view video one frame at a time in forward or reverse playback.



To view files one frame at a time:

- Click  (step backward single frame) to view a single frame of the video in reverse playback.
- Click  (step forward single frame) to view a single frame of the video in forward playback.


Forward/Reverse Playback & Pause

Use the play and rewind button to play video forward or backward. Use the pause button to pause video playback.

To play video forward or backward:

- Click  (play) for forward playback.
- Click  (rewind) for reverse playback.

To pause playback:

- Click  (pause) to pause the video.

Timeline Slider

The Time Slider allows you to jump to any part of the video. To move forward or backward in the video using the time slider, drag the slider in the timeline.

Video Speed Slider

The video speed slider allows you adjust the playback speed of the video.

To speed up video playback:

- Drag the speed slider to the right.



To slow down video playback:

- Drag the speed slider to the left.



NOTE: The video speed slider does NOT work during reverse playback.

Single-Channel View


The single-channel view allows you to watch one channel of a video.

To view one channel of video:

- Click  (single-channel view).



Figure 2.5 Single-channel view mode.

Click  (single-channel view) again to switch channels.

Two-Channel View

The two-channel view splits the viewing area in half and allows you to see the in-car camera and Driver-View camera simultaneously.

To view two channels of video in split screen:


1. Click  (two-channel view).



Figure 2.6 Two-channel view.

Picture-in-Picture (PIP) View

The Picture in Picture mode allows you to view two channels of video, with one main screen, and one smaller screen (inset).

To view video in picture in picture mode:



1. Click  (PIP) to view video in picture in picture mode.
2. Click  (PIP) again to flip between inset and main screen.



Figure 2.7 Picture in picture view.

Manipulating Video Windows

- You can move the video windows around by dragging the video window. To to resize the window, click the bottom right hand corner of the window, and drag to resize.
- To exit from full-screen view, double-click on the video screen image to return to the main viewing window.

Enabling Google Maps View

Lorex Viewer displays the location of your vehicle on Google Maps. This feature allows you to pinpoint the location of an event. **Full screen viewing modes disables Google Maps View.**

To start Google Maps view:


1. Click  (play) on the Google Maps window. Google Maps connects, and displays the current location of the vehicle on the map.



Figure 2.7 Press the play button to start Google Maps.

NOTE: Google Maps requires an internet connection to retrieve map data.



Figure 2.8 Google Maps window enabled.

2. Click **Hybrid** or **Map** to manipulate how Google Maps displays the map.

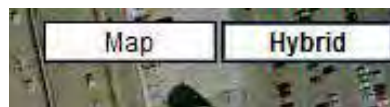


Figure 2.9 Click the Map or Hybrid button to switch map views.

Converting files to AVI

You can convert your video files to .AVI format so that you can archive the video. By default, the videos are encrypted with a proprietary compression that is NOT playable alone.

To have your video files play as a stand-alone file, you must compress the files using Lorex Viewer.

NOTE: To play back the video after you have converted it using the Lorex Viewer, you need a third party video codec. Search online for the "FFDSHOW CODEC". Download and install the FFDSHOW codec. Once you have installed the codec, you are ready to view backed up files from Lorex Viewer.

To compress your video file:

1. Click the video you wish to backup from the Event browser. You can only select one event at a time.

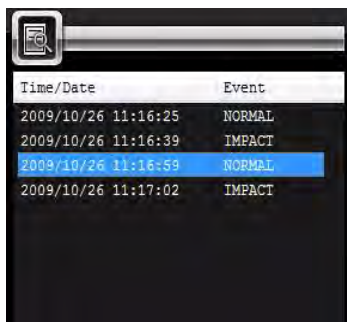



Figure 3.0 Select file you wish to back up from the Event window.

2. Click  (Back up) to open the backup screen.

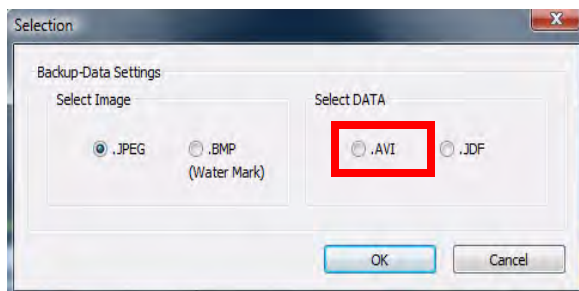


Figure 3.1 Select AVI under the backup selection screen.

3. Under Select DATA, select **AVI** and click **OK** (Figure 3.1). The Backup-Data Settings window opens.



Figure 3.2 Backup-Data settings window.

4. Select the channel you wish to back up under Select Channel (**Inside-Cam** or **Outside-Cam**).
5. Select the checkbox under Audio ON/OFF to enable or disable sound.
6. Click the browse button under Backup-Data Path to select the directory you wish to save your file and then click **Save**.
7. Click **Next** to backup and compress your video. A confirmation window appears.
8. Click **Finish** to close the window.

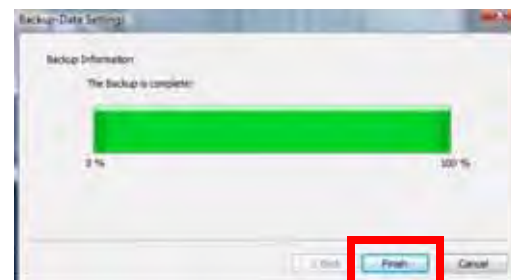



Figure 3.2 Backup confirmation window.

Printing Video Images

To print an image of your video with Lorex Viewer open:


1. Pause the video that you want to capture as an image.
2. Click  (print). The channel selection screen appears.
3. Select desired channel to print. Click **OK**.

Watermarking Video Images

To ensure video images have not been tampered with, Lorex Viewer comes bundled with a watermarking software called Watermark Proofer. The watermark function allows you to take an image of a single frame screen shot, and verify that the screen shot has not been tampered with.

Watermarking Video Images

To watermark a single frame of a video image:

1. Open Lorex Viewer (*Start>Programs>Lorex_V2*) and log in.
2. Click  (backup). The backup window opens.
3. Under Select Image, click **BMP (Watermark)** and click **OK**.

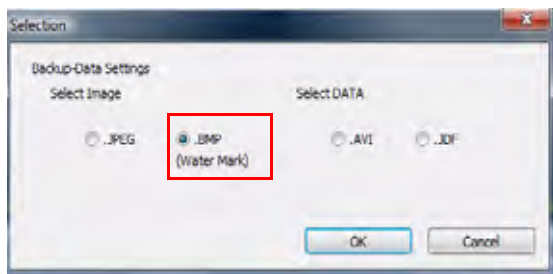


Figure 3.3 Select Watermark to protect the image with watermark.

4. Browse for the directory you wish to save your picture in. Click **OK**.

Viewing Watermarked Images

To view your watermarked video image:

1. Select *Start>Programs>Lorex_V2>Watermark proofer* to start the watermarking program.
2. Click **Open** and browse for the watermarked bitmap (.bmp) file you saved with Lorex Viewer.
3. The image opens with either a pass or fail. An image with a waterproof mark that has NOT been tampered with has a large green circle on the picture (Figure 3.5). An image with a waterproof mark that HAS been tampered with has a large red 'X' on the picture (Figure 3.6).

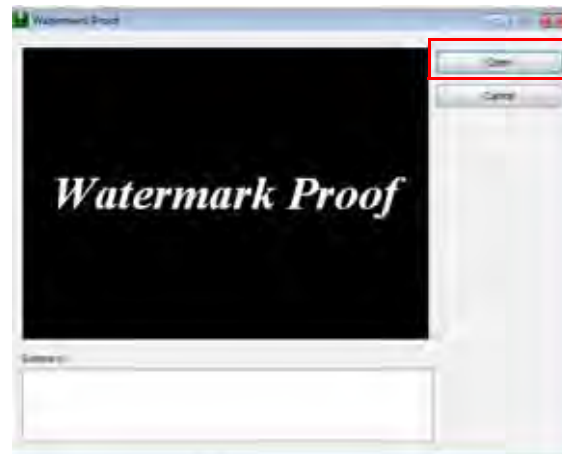


Figure 3.4 Watermark program main screen. Click Open to browse for the watermarked bitmap file.



Figure 3.5 A Watermarked image that has NOT been tampered with shows a large green circle on the image.

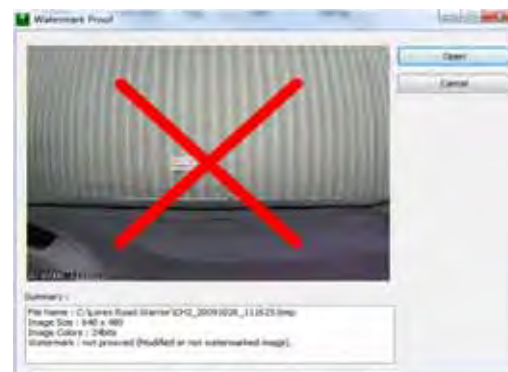

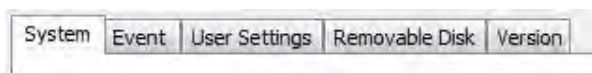


Figure 3.6 A Watermarked image that HAS been tampered with shows a large red 'X' on the image.

CONFIGURING YOUR ROAD WARRIOR

Before using your Road Warrior for a long period of time, it is recommended to configure the Settings menu. This ensures that you receive the best possible performance.

Click  (Setup) to access the Setup menu, then click the appropriate tabs on the top of the window:

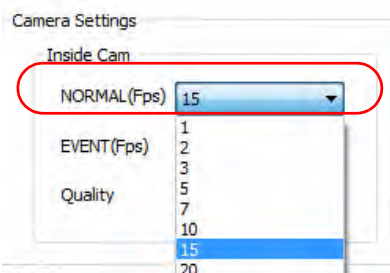


System Tab

Changing Camera Frame Rate

To change camera recording frame rate:

- From the Normal (Fps) drop-down menu, select the desired frames per second. Twenty frames per second is considered real-time recording. **Click OK** to save.

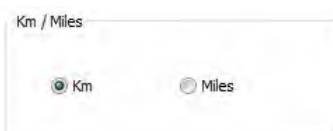


You can adjust the recording frame rate for both the Inside camera and the Outside camera (Driver-View camera).

Adjusting speedometer Unit of Measurement

To change the unit of measurement that Lorex Viewer displays:

- Select Km or MPH. **Click OK** to save.



Looping Video Recording

To record video on a continuous loop:

- Under Storage Method, select **Recycle**. **Click OK** to save.



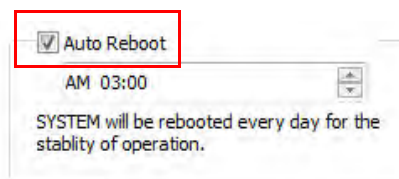
This will continually record video until the memory card is full. Once the memory card is full, the Road Warrior erases the memory card and begins recording again.

Automatically Restarting your Road Warrior

To prevent the Road Warrior from encountering recording errors, you can set it to restart automatically.

To enable automatic restart:

- Select Auto Reboot.
- Select the time you want the unit to restart. **Click OK** to save.



NOTE: Cigarette lighters in import vehicles turn off when the car powers off. This means the restart function will NOT work if the vehicle is turned off. Cigarette lighters in domestic vehicles remain on even if the vehicle is turned off.

Disabling Audio in Recording

To disable audio recording in both channels:

- Deselect the **Enable** check box under the Audio menu. **Click OK** to save.



Event Tab

Choosing What Events to Record

You can select the types of events that you want the Road Warrior to record. For example, you can have the Road Warrior record only during emergency situations.

To choose the events you want the Road Warrior to record:

- Select what type of events you want the Road Warrior to record. Deselect the events you do not want the Road Warrior to record. **Click OK** to save.



Emergency: Records events when the emergency button is pushed.

Impact: Records events when a vehicle hits a bump or object.

Overspeed: Records events when the vehicle reaches a certain speed.

Sudden Stop: Records events when the vehicle abruptly stops.

Sudden Start: Records when the vehicle accelerates quickly.

Changing Pre and Post Recording Time

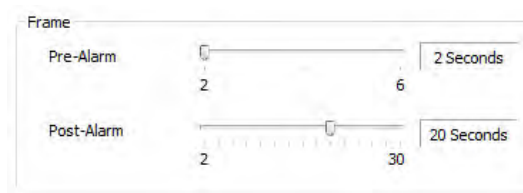
When an event occurs, you can select how many seconds you want the Road Warrior to

record *before* and *after* the event. For example, after an impact, you may want to view 5 seconds before the event, and 30 seconds after the event.

Note that the **NORMAL(Fps)** frame rate must be set to **1** for pre and post recording to work. See "Changing Camera Frame Rate" on page 15 for details.

To change pre and post recording time:

1. Drag the slider to the left to decrease the duration (in seconds). Drag the slider to the right to increase the duration (in seconds). **Click OK** to save.



Adjusting Speed Settings

You can adjust what speed the "Overspeed" event triggers a recording. For example, if you set the speed setting to 88 m.p.h., the Road Warrior will only mark an event as Overspeed when your car reaches 89 m.p.h.

To adjust Speed Settings:

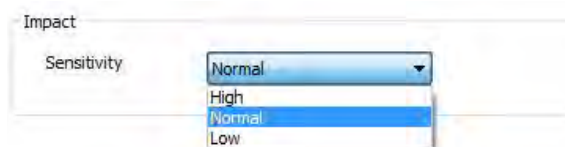
- Drag the slider left to decrease speed settings; right to increase speed settings. **Click OK** to save.



Adjusting Impact Sensitivity

To adjust impact sensitivity:

- From the Sensitivity drop-down menu, select desired impact (**Normal**, **High**, **Normal**). **Click OK** to save.



User Settings Tab

Changing the Administrator Password

To change the Lorex Viewer password:

- Enter the desired user ID and password into the appropriate fields, and click **OK** to save the settings.

User Info

User ID: admin

Password: [Empty field]

Imbedding User Information in Recordings

You can imbed your vehicle name and driver license on the video as a watermark.

To add your information to video recordings:

- Enter your information into the blank fields and click **OK**.

Car Info

Car Info: [Empty field]

Driver Info: [Empty field]

License plate No: [Empty field]

Removable Disk Tab

Selecting Memory Card Directory

To change the directory of where Lorex Viewer reads the memory card:

1. From the Select Drive drop-down menu, select a save directory (i.e. G:\).

Removable Disk

Select Drive: G:\

Other drives listed: H:\, I:\, J:\, K:\

By default, Lorex Viewer automatically detects your memory card. You should not have to manually change the drive directory.

Checking Memory Card Capacity

To check the capacity of your SDHC memory card:

- Select the Removable Disk tab. The memory card capacity information displays under Drive Information.

Formatting the Memory Card

Formatting the memory card **permanently deletes your videos**. Create a copy of your memory card files before proceeding with a full memory card format.

To format your SDHC memory card:

1. Under the Removable Disk tab, click **DATA RECOVER** to unmount the memory card. Then click **FORMAT DRIVE**. The format window opens.

Drive Information

DISK :	G:\	
TOTAL SIZE :	4.06	GB
FREE SPACE :	94.21	MB

Buttons: DATA RECOVER, FORMAT DRIVE

2. Click **Start**. Click **OK** when the warning indow appears. Formatting begins.

NOTE: By default, Windows reads a 4 gigabyte memory card as 3.78 GB. This is normal.



Attention!

Formatting the memory card using the Lorex Viewer imbeds the Lorex Viewer into the memory card.

After formatting the memory card, Lorex Viewer automatically copies into your memory card directory (the LOREX folder).

This means you can watch your videos without installing Lorex Viewer onto the computer.

Navigate to the LOREX folder on your memory card, and double-click "lorex" to start the viewer.

- If you format your SDHC memory card without using Lorex Viewer, the default factory directories will not appear after formatting. **Always use the Lorex Viewer to format your memory card. This preserves necessary folders for the unit to function.**

Version Tab

The version tab shows the version number of Lorex Viewer and Road Warrior. This information may be useful when you want to confirm that you have the latest version of Lorex Viewer and the latest firmware on the Road Warrior.

You may need to access the Version tab for troubleshooting purposes with Lorex technical support.

To view what version of Lorex Viewer, and the firmware version of the Road Warrior you have:

- Select the Version tab.

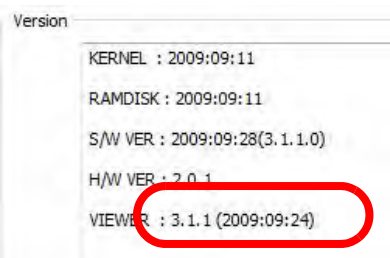


Figure 3.7 The Version tab shows what version of Lorex Viewer you have installed.

Restoring User Settings

You can save your user settings so that you may re-load your Road Warrior configuration at any time.

For example, you may have to format your SDHC memory card. Once your SDHC memory card has been formatted, all your user settings such as time settings, pre and post recording times etc., will reset to the factory default.


In order to save your settings, you must save your user settings.

Restoring Factory Default Settings

- Click **DEFAULT** on the bottom of the menu; click Yes to restore factory settings.

Saving User Settings

To save your Road Warrior user settings:

1. Click  (setup) to open the setup menu.

2. Adjust your user settings (i.e. time settings, pre and post recording time etc.)
3. Click **OK**. The Save As menu appears (Figure 3.8).

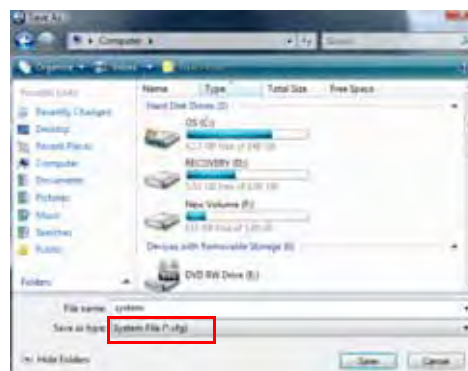



Figure 3.8 The Save As menu. Save the CFG file to a desired directory.

4. Locate the directory you wish to save the CFG file. Click **Save**.

Once you have saved your Road Warrior user settings file, you can re-load your Road Warrior user settings at any time.

To load your user settings file:

1. Click  (setup) to open the setup menu.
2. Click **LOAD CONFIG** on the bottom of the menu. The Open menu appears.

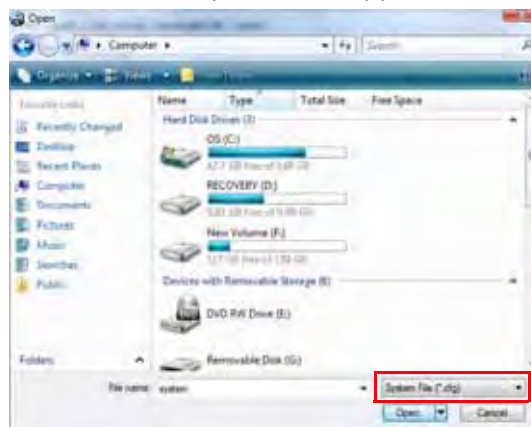


Figure 3.9 The Open menu. You can only open CFG files.

3. Locate the **.JDF** you saved previously. Click **OPEN**. Click **OK** to continue. A pop-up menu opens. Click **YES** to load the JDF file.

TIPS

Back up your videos

Back up your videos regularly to external media such as blank CDs or DVDs (not included). To reduce the risk of losing recorded video on the Road Warrior, make an extra copy of all important videos. All Road Warrior videos are stored in the **data** folder in the SDHC memory card. Videos end in a **.JDF** extension.

Formatting your SDHC memory card

Always use the Lorex Viewer to format your memory card. By default, the Road Warrior memory card has four system folders: **config**, **data**, **LOREX** and **update**. Formatting your memory card using the Lorex Viewer ensures that these folders are restored after you format your memory card.

The Lorex Viewer program automatically copies into the memory card's **LOREX** directory. This allows you to run Lorex Viewer on a foreign PC, without installing the Lorex Viewer.

Preventing data loss on your SDHC memory card

Always power off your Road Warrior before removing the SDHC memory card. Removing the SDHC memory card when the Road Warrior is on may corrupt the files.

Replacing your SDHC memory card

The SDHC memory card included with your Road Warrior is a high-grade, Class-6 memory card. SDHC stands for Secure Digital High Capacity, and provides extended memory capacity compared to normal SD memory cards. Always replace damaged memory cards with Class-6 SDHC memory cards. The maximum supported size is **32 GB gigabytes**.

Maintaining memory card health

Back up your files regularly, and format your SDHC memory card monthly. This ensures that the memory card operates error-free. After you format your SDHC memory card, you can

restore your user settings. See "Restoring User Settings" on page 18 for details.

Viewing videos on your SDHC memory card

Always use the included SDHC memory card reader to view video files on your computer. Should you lose or damage the included memory card reader, replace it with a SDHC memory card reader only.

Obtaining GPS signals

Always keep the GPS mounting bracket clear of obstructions.

The Road Warrior seeks GPS signals when it is powered on. Depending on weather conditions and your environment, it may take longer than usual for the GPS signal to lock in.

If you are in a garage, you may have to move your vehicle outdoors before the Road Warrior can detect a signal.

Moving the video window

Click and drag the video windows to manipulate its location. Click the bottom right hand corner of the video, and drag to increase and decrease window size.

Closing the video window during full screen playback

- To close the video window during full screen playback, double-click on the video screen image to return to the main viewing window.
- To view video in full-screen playback, double-click on the image in the video window.

MOUNTING THE ROAD WARRIOR - FAQ

What is the best location to mount the Road Warrior?

Mount the Road Warrior as close as you can to the rear view mirror, without obstructing your ability to adjust the mirror. The in-car and driver-view camera should cover the middle of the vehicle. The Road Warrior should not be mounted too far into the passenger side.

It is highly recommended to use a portable display (not included) to calibrate the angle and mounting location of the Road Warrior. If you do not have access to a portable display, simply hold the Road Warrior by hand, where you would like to position it, and begin recording. Then, view the video to see if the mounting angle is appropriate.



Always have a clear view of the road. **Discontinue use if the Road Warrior distracts you from driving safely.**

How do I remove the mounting bracket on my windshield?

Remove the Road Warrior from the mounting bracket, then firmly tug on the mounting bracket. Be patient. The double-sided adhesive has a powerful bond to glass surfaces.

Be careful not to break the mounting bracket while trying to remove it from the windshield.



Why does the Road Warrior come included with double-sided adhesive?

Double-sided adhesive provides superior gripping power compared to suction cups. The Road Warrior is designed to be held in place while the vehicle encounters bumps and sudden forces. Extreme heat and extreme cold does not affect the strength of the double-sided adhesive. This is vital when the Road Warrior is mounted in environments with extreme temperature fluctuations.

APPENDIX A:

UPGRADING ROAD WARRIOR FIRMWARE

Occasionally, your Road Warrior may require a firmware update to enhance performance. Firmware upgrades are available online at www.lorexcctv.com.

To upgrade your Road Warrior firmware:

Remove the SDHC memory card from the Road Warrior

1. Power off your Road Warrior. Remove the SDHC memory card.
2. Plug in the SDHC memory card into the memory card reader. Plug the memory card reader into your PC's USB port.

Download the firmware

1. Go to www.lorexcctv.com and search 'Road Warrior' on the website.
2. Download the latest firmware onto your computer. Make note of where you downloaded the firmware file.

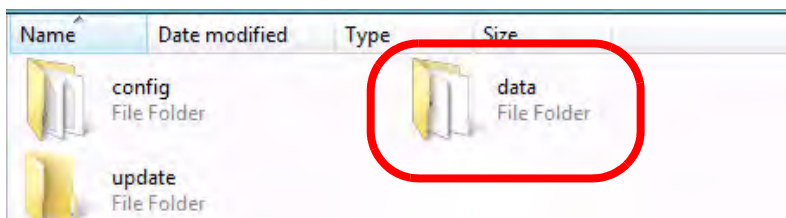
NOTE: The firmware file ends in a **.arm** extension.

Extract the firmware

- Double-click the zipped file and select the directory of where you would like to save the file.

Copy the firmware into the SDHC memory card

- Copy the firmware into the **data** folder of your Road Warrior's SDHC memory card. Eject the SDHC memory card when the files have successfully copied into the **data** folder.



Reboot the Road Warrior

1. Unpower your Road Warrior.
2. Insert the SDHC memory card with the firmware into the Road Warrior.
3. Power on your Road Warrior. Wait approximately two minutes for the unit to upgrade. When the firmware upgrade is complete, the REC, GPS and POWER LED will have a solid glow.

APPENDIX B: LOREX VIEWER SYSTEM REQUIREMENTS

Prior to using Lorex Viewer, make sure your system meets or exceeds the following system requirements:

Description	Requirement
CPU	2.0 GHz Pentium® 4 or above
Operating System	Windows XP/Vista
Browser	Internet Explorer 7 or greater
Memory	1 GB RAM (more than 1 GB recommended)
Video	16 MB of video memory
HDD	2 GB of free space
Network (LAN)	10/100 Base-T Network
Network (WAN)	384 Kbps upstream*

*High-speed Internet connection recommended

APPENDIX C: ROAD WARRIOR TECHNICAL SPECIFICATIONS

Cameras	Two CMOS cameras
Lens Curvature	Driver-View Lens: 175° Interior-View Lens: 120° Wide Angle
Video Input	Digital 2 Channel Built-in
Video Compression	H.264
Audio Compression	ADPCM
Recording Resolution	VGA 640 x 480
Recording Speed	Maximum of 60 FPS (30 FPS per channel)
Recording Media	SDHC memory card, Class 6. 32 Gigabyte maximum
IR LED	850nm with CDS sensor
Power Requirements	DC 12V~24V
Operating Temperature	32° F ~ 113°F / (0° ~ 45°C)
Humidity Tolerance	10~95%
Weight	150g
Dimensions	65 (W) x 140 (D) x 30 (H) mm

TROUBLESHOOTING YOUR ROAD WARRIOR

When a malfunction occurs, it may not be serious and can be corrected easily. The following describes the most common problems and solutions. Please refer to the following before calling Lorex Technical Support.

Error	Solution
The computer freezes or encounters an error when I try to view files on the SDHC memory card.	Make sure that you are using the included SDHC memory card reader. SDHC memory cards require a SDHC compatible card reader.
The Road Warrior does not power on.	Double check that the power adapter is plugged into the Road Warrior and into your vehicle's cigarette lighter. Your vehicle must be turned in order to power the cigarette lighter.
Video files are missing on the SDHC memory card	Make sure the memory card is inserted correctly into the Road Warrior. The memory card should smoothly slide into the memory card slot. The memory card clicks and locks into place.
The Lorex Viewer plays videos off the memory card, but is unable to record.	Make sure the memory card is not locked. Check your memory card to see if the tab has been set to lock. Push the tab back into the record position.
The video is blurry.	Make sure the secure film on the camera lens are removed.
	Gently wipe the camera lenses with a non-abrasive cloth.
The Road Warrior reboots after I insert a SDHC memory card.	Back up all your video files on the memory card, then format the memory card.
Google maps does not connect when I start Lorex Viewer.	Make sure you have a working Internet connection.
Lorex Viewer does not install on my computer.	Make sure you have administrative privileges if you are running Windows Vista. Lorex Viewer is designed for PCs only.
	Make sure your computer meets the minimum requirements: Pentium 4 2.0Ghz processor / 512 MB of RAM/ Windows XP/ Vista/ Direct X 9.0 or greater / 2.0 GB of free hard drive space
My video is missing frames (choppy video).	Ensure that you are using a CLASS 6 SDHC memory card.
	Make sure your computer meets the minimum requirements.

LOREX PRODUCT LIMITED WARRANTY

Lorex warrants, to the original retail purchaser only (the "Purchaser"), that this item (the "Product") if properly used and installed is free from manufacturing defects in material and workmanship. Provided the Product is used in normal conditions and is installed and used in strict accordance with the instructions contained.

This warranty shall be for the following warranty periods (the "Warranty Period"), commencing on the date the Purchaser buys the Product at retail, in unused condition.

- Lorex's obligations under this warranty shall be limited to:
- The repair and/or replacement of the product by means of hardware and/or software (at option of Lorex);
- The replacement of any warranted parts found by Lorex to be defective in the Product or, in Lorex's sole discretion, the replacement of the Product found by Lorex to be defective.
- If Lorex is unable to repair or replace the Product, refund the value of the Product at the time of the return.
- Any replacement parts furnished by Lorex in connection with this warranty shall be warranted to the same extent for a period equal to the unexpired portion of Warranty Period for the Product.
- Lorex shall not be liable for consequential or incidental damages.
- The manufacturer of the HDD is HODO, contact the HODO manufacturer directly regarding the serial number of your manufacturer of the HDD. Contact the HODO manufacturer directly regarding the serial number of your

Warranty Exclusions
This warranty does not apply to Bulbs, LED's and Batteries supplied with or forming part of the product. This warranty is invalidated if other than Lorex accessories are or have been used in or in connection with the Product or in any modification or repair is made to the Product by other than a service depot authorized by Lorex.

(ii) misuse, abuse, neglect, alteration, repair or improper installation of the Product, (iii) electrical short circuits or other electrical faults, (iv) use of replacement parts not supplied by Lorex, (v) improper Product maintenance, or (vi) accident, fire, flood or other Acts of God.

Recording devices - end users are recommended to back up the content of their critical data on a regular basis. Data loss, data recovery, consequential damages, incidental damages and costs related to removal and installation of the storage media (hard disk drive, SD card etc.) are not covered under this warranty and are not part of the repair or exchange process.

This warranty does not cover any costs relating to removal or replacement of any Product, or software installed on your computer.

Lorex does not make any claims or warranties of any kind whatsoever regarding the Product's performance, ability or effectiveness to prevent minimize, or in any way affect personal or property damage or injury. Lorex is not responsible for any personal damage, loss or injury related to the Product or its use for any harm, whatsoever, physical or mental related thereto. Any and all claims or statements, whether written or verbal, by salespeople, retailers, dealers or distributors to the contrary are not authorized by Lorex, and do not affect this provision of this warranty.

To claim on this warranty, proceed with the following steps:

1. Contact our customer service department to obtain a return authorization (RA) number.
2. Pack the Product and its accessories in the original packaging or in an equivalent well-padded sturdy carton and reference your RA number on the box.
3. Ship the Product to the appropriate Lorex Return center in your country. For address information visit: www.brexittechnology.com/warranty or call our customer service department.

North America
Customer Service
1-888-42-LOREX (1-888-425-6739)
Local: 905-840-5355

Tech Support:
1-877-75-LOREX (1-877-75-56739)

International:
+800-42-LOREX 0 (1-800-425-67390)

Always use discretion when installing video and/or audio surveillance equipment especially when there is perceived privacy. Inquire regarding federal, state and/or local regulations applicable to the lawful installation of video and/or audio recording or surveillance. Party consent may be required.

Loirex garantit à l'acheteur original (ci-après désigné comme étant l'«acheteur»), dans un magasin ou un autre lieu de vente agréé, la possibilité de retourner le produit (ci-après désigné comme étant le «produit») dans un délai raisonnable, et de le remplacer ou de le rembourser. Le produit doit être retourné dans son emballage d'origine, intact, sans dommages, et avec tous les accessoires et la documentation d'origine. Le produit doit être retourné dans un délai raisonnable, et le client doit être remboursé ou le produit doit être remplacé. Le produit doit être retourné dans son emballage d'origine, intact, sans dommages, et avec tous les accessoires et la documentation d'origine. Le produit doit être retourné dans un délai raisonnable, et le client doit être remboursé ou le produit doit être remplacé.

1 année (les pièces couvertes n'incluent pas les ampoules, voyants à DEL ni les piles).

- Les obligations de Lorex selon les termes de cette garantie se limitent exclusivement aux points suivants :
- Lorex se réserve le droit de réparer ou de remplacer, à sa seule discrétion, le logiciel et/ou le matériel.
- Le remplacement des pièces sous garantie que Lorex estime être défectueuses dans le produit ou le disque CD-ROM ou, à sa seule discrétion, le remplacement du produit / du disque CD-ROM pour le remplacer par le produit ou le disque CD-ROM, rembourser la valeur monétaire du produit ou du disque CD-ROM en cours au moment de l'embarquement.

Toutes les pièces remplaçables par Rolex seront couvertes pendant la période résiduelle de la garantie dudit produit.

Exclusions de service Pour obtenir ce service, veuillez vous assurer que vous avez inscrit votre produit en ligne (www.lorenzetti.com). Dans la section d'abonnement à la garantie, cette garantie ne couvre pas les sacs ampoules. Vivants à DEL, les bacs incluses avec le produit, ce faisant partie de celui-ci. Cette garantie deviendra nulle si des accessoires autres que ceux vendus ou distribués par Lorex sont utilisés conjointement avec le produit ou si des modifications ou des réparations ont été effectuées au produit par une entité autre qu'un centre de service autorisé par Lorex.

Cette garantie ne s'applique pas aux défauts ni aux dommages survenus suite à une utilisation anormale du produit (incluant des conditions atmosphériques et des taux d'humidité anormaux) ou suite à une installation ou une utilisation du produit autre que celle décrite dans le guide accompagnant le produit.

Cette garantie ne s'applique pas aux défauts ni aux dommages causés au produit suite à (i) une utilisation insouhaitée du produit, (ii) mauvaise utilisation, abus, négligence, modification ou réparation non autorisée, (iii) court-circuits ou transitoires électriques, (iv) tout usage de mauvaise installation du produit, (v) utilisation prescrite du produit, (vi) utilisation de pièces non recommandées par Lorex, (vii) un entretien inadéquat du produit, ou (viii) tout accident, incendie, inondation ou autres désastres naturels.

Cette garantie ne couvre pas la performance ni l'originalité de tout logiciel informatique inclus avec le produit. Cette garantie ne couvre pas les défauts que pourraient contenir le support optique (disque CD-ROM) ou magnétique (disquette), tel qu'un CD-ROM brisé ou comportant un défaut qui empêcherait d'être lu adéquatement par le lecteur de votre ordinateur. Lorex ne garantit pas que la logique fournie avec le produit fonctionnera sans interruption ni qu'il sera libre de tout droit d'auteur, d'injure ou de tous autres types de dommages. Lorex ne garantit pas que cela ne se soit jamais produit et ne pourra plus se produire à l'avenir. Lorex n'est responsable de toute perte financière ou de données résultant de l'installation ou du fonctionnement d'un produit logiciel, matériel périphérique ou disque CD-ROM installé sur votre ordinateur.

Lorex se réserve le droit de modifier la conception ou d'apporter des ajouts ou des améliorations à ses produits, sans obligation de se part de modifier les produits déjà fabriqués. Lorex tient en conséquence sous réserve de sa responsabilité de fournir des réparations à son logiciel via son web site. Cette garantie ne couvre pas les altérations ni les dommages effectués tout autre logiciel, ni les dommages pouvant résulter de l'installation ou de l'utilisation permanente sur le système de l'utilisateur suite à l'installation du logiciel ci-joint.

SEE > HEAR > PROTECT



Enhance your security with genuine Lorex Cameras, Digital Video Recorders, Integrated Systems and Accessories. Order whatever you need at www.lorexcctv.com or call 1-888-42-LOREX (1-888-425-6739)

Warehouse



CVC6998HR

Office



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VQ1536HR

Convenience Store



LW2100

Kitchen



LW2702

PROTECT EVERYTHING THAT MATTERS

Add wired or wireless cameras to expand the "Envelope of Protection" for your business, your home and your family

Home Office



LW2002B

Drive Way



SG7540

Front Door



LW2301

Nursery



LW2002W

Backyard



LW2201