4RE® HD PANORAMIC
IN-CAR VIDEO WITH
INTEGRATED
VISTA BODY CAMERA

- High Definition in-car video system provides the critical third-person point of view of incidents

- Panoramic X2 camera extends the coverage area in front of the vehicle while secondary cameras cover the backseat and around the vehicle

- Full integration with VISTA body-worn cameras provides synchronized video from multiple vantage points

- Automatic uploading of recorded events from the 4RE and integrated VISTA body-worn camera using cellular and WiFi networks saves officers time
WatchGuard 4RE is the largest in-car camera system development effort in the history of the in-car video industry. 4RE substantially outsells all other in-car video systems and wins 85% of competitive evaluations.

WatchGuard Video has multiple patents from the U.S. Patent and Trademark Office related to the technology used in the WatchGuard 4RE system.
CLARITY WITHOUT COMPROMISE

MULTIPLE RESOLUTION RECORDING
Recording every incident in High Definition dramatically increases the cost of data storage and the time to wirelessly transfer files. WatchGuard 4RE uses a patented multiple resolution recording technology to effectively eliminate the extra cost and transfer time associated with High Definition video.

4RE = FOUR RESOLUTION ENCODING
WatchGuard 4RE records in both High Definition and a lower resolution simultaneously. Important (court-bound) incidents are automatically saved in High Definition (720p) while routine events (usually 95% of recordings) are automatically saved at the lower resolution (480p).

EVENT CATEGORIES DETERMINE WHICH RESOLUTION IS KEPT
Each agency sets up their own custom list of recorded event categories and chooses which categories are to be kept in High Definition. Officers simply select the event type, and the system does the rest.
EXPAND THE VIEW – KEEP THE DETAILS

4RE PANORAMIC X2 INCLUDES 2 HD CAMERAS

VISION IS NOT OBSTRUCTED
Mounts in front of the rear view mirror

68° PRIMARY HD CAMERA
• Provides highly detailed images
• License plates are legible up to 38 feet
• Built into a rotatable turret to be aimed as needed

HD PANORAMIC STRIP CAMERA
• Covers everything in front of the car
• Fixed position gives pillar to pillar coverage

FULL COVERAGE – NO COMPROMISES

IMPROVES OFFICER SAFETY
Only the turret is exposed to aim the primary camera

PANORAMIC IS ONLY KEPT WHEN NEEDED
• The Panoramic camera is normally set to record in the background
• After the recording is stopped, officers can choose to include the background recording
• Included camera views are saved and uploaded automatically
• Unsaved background recordings stay on the hard drive for several days
• Record-After-the-Fact can be used to retrieve and upload an unsaved panoramic view if it is later discovered it was needed
• Since the panoramic view is only kept when needed, it has very little impact on the total amount of storage required
SUPERIOR IMAGE QUALITY
AVAILABLE WITH 3 HD CAMERA OPTIONS

PANORAMIC X2 CAMERA
- 68° Primary camera field of view
- 16:9 Wide screen aspect ratio
- Panoramic Strip camera
- 16:3 Ultra-wide screen aspect ratio
- Both cameras are U-WDR 720p

HD MINI ZOOM CAMERA
- 57° Max field of view
- 12X Optical zoom
- 16:9 Wide screen aspect ratio
- U-WDR 720p

ZERO SIGHT-LINE (ZSL) CAMERA
- 68° Field of view
- 16:9 Wide screen aspect ratio
- Zero visual obstruction
- U-WDR 720p

USES 2 SEPARATE EXPOSURES
Light Exposure
Dark Exposure

ULTRA-WIDE DYNAMIC RANGE CAMERA TECHNOLOGY
- Dramatically improves video quality
- Much higher nighttime sensitivity
- Eliminates the "Back-light" button
- Perfect exposures even when facing the sun
- Rich colors even in low light conditions

Takes a dark exposure and a light exposure for each frame of video. Keeps dark areas from turning black and bright areas from becoming over-exposed.

Actual final nighttime video image from 4RE
## INTEGRATED BODY-WORN CAMERAS

<table>
<thead>
<tr>
<th>Design</th>
<th>VISTA XLT</th>
<th>VISTA WIFI</th>
<th>VISTA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera(s)</td>
<td>Head-Mount Body-Mount</td>
<td>Built-In</td>
<td>Built-In</td>
</tr>
<tr>
<td>SYNCRONIZES WITH 4RE</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Wi-Fi and GPS</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>HD Recording</td>
<td>12 Hours</td>
<td>9 - 11 Hours*</td>
<td>11 Hours** 7 Hours</td>
</tr>
<tr>
<td>SD Recording</td>
<td>13 Hours</td>
<td>10 - 12 Hours*</td>
<td>12 Hours** 8 Hours</td>
</tr>
</tbody>
</table>

HD and SD recording time may vary based on environmental conditions and feature use

* VISTA WiFi Recording time may vary based on the utilization of GPS and WiFi radios
** VISTA is available in Extended and Standard versions

### SECONDARY CAMERAS

**INFRARED CABIN CAMERA (INCLUDED)**
- 90° Field of view
- Built-in infrared illumination
- Standard resolution color CCD

**SIDE OR REAR FACING CAMERAS (OPTIONAL)**
- 74° Field of view
- Sony Super HAD color CCD
INTUITIVE TOUCH SCREEN DISPLAY

Direct access keys for all primary functions make operation quick and simple. The beautiful graphical user interface makes 4RE easy to understand.

MULTI-CAMERA SPLIT SCREEN

- The screen automatically optimizes the layout to display the active cameras
- Individual cameras can be isolated for full screen viewing

The standard 4RE system can record and display 3 cameras simultaneously.

- Primary HD camera
- HD Panoramic Strip camera
- Infrared Cabin camera

With the optional 4RE Expansion Card, the system can simultaneously record and display 6 cameras to provide a full 360° view around the car.

- Primary HD camera
- HD Panoramic Strip camera
- 4 Additional standard resolution cameras
  - Infrared Cabin camera
  - 2 Side view cameras
  - 1 Rear view camera

COMPUTER INTEGRATION OPTION

The WatchGuard 4RE system can be integrated with a mobile data computer with the optional 4RE Mobile App.
HiFi WIRELESS MICROPHONE

HEAR WHAT YOU’VE BEEN MISSING!

NEAR CD AUDIO QUALITY
3X Better frequency response

1-2 MILES OF RANGE (LINE OF SIGHT)
Maintain audio through buildings (high power, 900 MHz)

EXTRAORDINARY BATTERY LIFE
1 Week of typical use on a single charge

CONTINUOUS TALK TIME
More than 12 hours (dependent on distance)

INTELLIGENT STANDBY
Up to 25 days (patented)

RECHARGE TIME
2.5 Hours (charges whether it’s turned off or left on)

BACK-LIT LCD STATUS DISPLAY

INCLUDES 2 CLIPS
Rotatable Alligator Clip
Duty Belt Clip

BEST HIGH FIDELITY MICROPHONE IN LAW ENFORCEMENT

Built-in acoustic foam wind barrier
The spring loaded slider switch can manually activate the mic or temporarily mute the audio
Rubber-overmolded corners protect the mic if it’s dropped

Actual Size
DUAL DRIVE ARCHITECTURE
INTEGRATED SOLID STATE HARD DRIVE AND REMOVABLE USB FLASH DRIVE

- Video is continuously recorded to the internal Solid State Hard Drive (SSHD)
- Active recordings are written to both the internal hard drive and the USB Flash Drive
- Continues to record even if the USB Flash Drive is full or missing
- Continues to record even during playback
- True industrial grade SSHD operates from -40°F to 185°F
- Integrated crash detection
- Integrated GPS for speed and location

REDUNDANT RECORDING

CERTIFIED to MIL SPEC STANDARDS (MIL STD 810-F)

FULLY SECURED USB FLASH DRIVE

For easy access, the USB device automatically swings out 90° when the door is unlocked.

- Physical Security – Locked behind a cast zinc door
- USB Data Security – USB data encryption with Evidence Library
- Redundant Security – The video files are backed up on the hard drive

4RE is the ONLY product on the market with a SECURE manual transfer option. Every other system leaves your agency exposed to the risk of data loss during manual transfers.
With 4RE, you never have to worry if the system recorded an important incident or not because 4RE is always recording to the hard drive (often called “Background Recording”).

When something important happens that was not part of a normal triggered event, use Record-After-the-Fact to create a new incident recording from what happened in the past.

- Background recorded video is continuously looped on the hard drive
- Background video is typically available for the previous 2-3 shifts
- Just enter a start and a stop point to create a new event from the background video
- The new event will be uploaded and managed just like normal triggered events

**NEVER MISS A CRITICAL INCIDENT AGAIN!**

WatchGuard’s Record-After-the-Fact has already been used to avoid countless lawsuits and solve hundreds of crimes, including many homicides.

- Vindicates officers
- Provides crucial video for investigations
- It’s the ultimate safety net
AUTOMATIC WIRELESS UPLOADS

NEVER TIED TO THE STATION
Eliminate the need and time spent returning to the station to upload video evidence. The WatchGuard 4RE can be configured to automatically upload recorded events from the in-car system and integrated VISTA body-worn camera via a variety of wireless networks anywhere the officer may be, and anytime throughout the shift. A perfect solution for agencies with a take-home car policy.

DIRECT-TO-CLOUD OR ON-PREMISE
The power of the 4RE comes from its incredible flexibility. Recorded events can be automatically uploaded direct-to-cloud for use with WatchGuard’s EvidenceLibrary.com cloud-based evidence management system or direct-to-on-premise servers for use with WatchGuard’s Evidence Library 4 Web on-premise evidence management system. Either way, your evidence gets to you where you need it.

AUTOMATIC UPLOAD PRIORITIZATION
Send and receive the most important events first. Configure the WatchGuard 4RE system to automatically prioritize the uploading of critical (court-bound) incidents ahead of more routine non-critical recordings.

UPLOAD EVIDENCE ANYWHERE, ANYTIME
The Watch Commander live video streaming application enables agencies to securely view the live video and audio from wirelessly connected WatchGuard 4RE camera systems. View any camera, vehicle status, meta-data, GPS coordinates and more.

**BUILT-IN HARDWARE SUPPORT**

4RE outputs additional video streams that are optimized for lower bandwidth connections without sacrificing any high resolution recordings.

**MOBILE ACCESS**

Using a secure connection, Watch Commander can be viewed on mobile devices, such as iPads, tablets and phones.
## MANAGE EVIDENCE

<table>
<thead>
<tr>
<th>Feature</th>
<th>CLOUD SERVICE</th>
<th>ON-PREMISE SERVER</th>
<th>STAND-ALONE PC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STORE EVIDENCE</strong></td>
<td>CLOUD</td>
<td>CLOUD LOCAL</td>
<td>LOCAL</td>
</tr>
<tr>
<td><strong>SHARE EVIDENCE</strong></td>
<td>CLOUD DVD</td>
<td>CLOUD DVD</td>
<td>DVD</td>
</tr>
<tr>
<td><strong>SYNCHRONIZE PLAYBACK</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>MANAGE DEVICES</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>MANAGE CASES</strong></td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td><strong>USE AUDIT LOGS</strong></td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
</tbody>
</table>

**Cloud Service**
EvidenceLibrary.com
Manage, store and share evidence securely in a cloud-hosted system.

**On-Premise Server**
Evidence Library 4 Web
On-premise software accessible via web browser scales to support thousands of users with a range of permissions.

**Stand-Alone PC**
Evidence Library Express (ELX)
Stand-alone system easily installs on an officer's in-car computer or an agency-provided PC.
STORE EVIDENCE

CLOUD STORAGE
Cloud storage allows agencies the convenience of storing digital evidence without the responsibility of maintaining, managing and backing up the drives in use. WatchGuard’s EvidenceLibrary.com evidence management system uses Microsoft Azure Government Cloud to host the system software and store the agency’s digital evidence.

HYBRID STORAGE
Hybrid storage allows agencies to optimize the cost of storage and the performance of video playback by using a mix of on-premise and cloud-based storage devices. WatchGuard’s Evidence Library 4 Web evidence management system with multi-tier storage capabilities provides agencies with the ability to automate the process of moving digital evidence files between on-premise and cloud storage devices.

ON-PREMISE STORAGE
Hard disk drives, resident in a stand-alone computer or enterprise server or available through an agency’s network, provide the highest level of performance when searching, retrieving and playing stored video evidence. WatchGuard’s Evidence Library 4 Web and Evidence Library Express evidence management systems make use of on-premise storage in a wide array of configurations, including the ability to offload events to DVDs.

MULTI-TIER STORAGE

EASY AUTOMATION
Automate when evidence files move from one storage tier to another.

CATEGORY-BASED RULES
Assign evidence retention periods to event categories, creating rules for long-term archival or removal.
SHARE EVIDENCE

Distribute and share evidence electronically in a cloud account, eliminating the need to produce and courier evidence files using DVDs or other portable media.

SHARE VIA THE CLOUD

CLOUD-SHARE allows the secure sharing of video or case evidence with authorized recipients outside the confines of an agency’s network using Microsoft Azure Government CJIS Compliant data centers.

USE CLOUD-SHARE WITH EVIDENCELIBRARY.COM OR EVIDENCE LIBRARY 4 WEB

SHARE EVIDENCE CONFIDENTLY

- Invite a single recipient or a group to a shared file by email address, role or function.
- Whitelist an entire email domain, allowing file sharing with anyone in the organization.
- Assign an expiration date for sharing an individual file or use a default by evidence category.
- Require user authentication via an access code or provide an account login for access to more sensitive files.

TRACK EVIDENCE EASILY

- Audit trails are created instantly and updated each time a file is uploaded, shared or viewed.
- Intuitive interface works like an email outbox with To, Date Sent, Sent By, Expiration Date and File Name fields.
- Helpful dashboard shows status of all active file shares by expiration period, downloads and plays.
SYNCHRONIZE PLAYBACK

SEE AND HEAR WHAT HAPPENED
Synchronized playback allows the ability to watch the in-car and body-worn camera views simultaneously. Hear audio from the body camera while viewing the overall third-person perspective from the in-car camera.

NO WIRELESS MICROPHONE NEEDED
VISTA WiFi-enabled cameras eliminate the need for the officer to wear a separate wireless microphone device.

EMBEDDED GPS TIMING DATA
- VISTA WiFi-enabled and 4RE in-car cameras embed precise GPS time data into their video streams.
- Video from any WatchGuard GPS-enabled camera can be played with other WatchGuard recordings, even if the cameras were from different recording groups.
VIDEO AND AUDIO REDACTION SOFTWARE
Fast and easy-to-use redaction software for use on a single computer or enterprise server.

AUTOMATED FACE DETECTION
REDACTIVE can quickly scan the entire video clip first, automatically detecting faces, so the user spends less time manually performing the task.

SPEEDS TIME TO FINISH
Select any object at any point in the video clip and REDACTIVE will automatically scan forward and backward to find it, allowing the user to redact the object before or after the selection point—or throughout the entire clip.

SIMPLE, SELECTIVE AUDIO MUTING
Select, preview and redact any portion of the audio track simply by highlighting the area.
SIX-MONTH MONEY-BACK GUARANTEE

WatchGuard is so confident that your agency will be satisfied with the WatchGuard® 4RE® system and the EvidenceLibrary.com™ cloud storage solution, we are offering a six-month money-back guarantee, subject to the following conditions:

FACTORY GUARANTEED IMPLEMENTATION GUIDELINES:

EVIDENCE LIBRARY EXPRESS IMPLEMENTATIONS REQUIRE
• WatchGuard 4RE hardware to be installed as recommended
• WatchGuard training for administrators and user trainers
• The computer running ELX-3 to meet the recommended specifications

EVIDENCE LIBRARY 4 WEB IMPLEMENTATIONS REQUIRE
• WatchGuard 4RE hardware to be installed as recommended
• WatchGuard training for administrators and user trainers
• WatchGuard provided in-car wireless radios and antennas are used
• WatchGuard provided access points are used and installed as recommended
• Server computer(s) meet the recommended specifications
• On-site software installation and configuration is performed by WatchGuard
• Agency controlled VPN access for WatchGuard Customer Service is present

EVIDENCELIBRARY.COM IMPLEMENTATIONS REQUIRE
• Your systems are configured properly to Microsoft® Azure
• You comply with the EvidenceLibrary.com Software-as-a-Service Subscription Agreement
• You allow access to systems to perform our Subscription Agreement obligations, as necessary

OUR PROMISE
We guarantee that the WatchGuard 4RE system, when sold as a Factory Guaranteed Implementation, and the EvidenceLibrary.com cloud storage solution, when properly configured and supported, will work effectively and to your satisfaction. If, during the initial six months after purchase, you find that either the 4RE system or EvidenceLibrary.com does not operate as intended, you have complied with all requirements, and our support is unable to resolve the issues, we will refund the purchase price.

Robert Vanman, Chief Executive Officer