WATCH GUARD

V300™

HD WEARABLE CAMERA

Important Notice

Software updates

WatchGuard is committed to the continual testing and improvement of our software. As new software revisions become available, these updates will be made available to your agency; fees may apply depending on your licensing agreement.

Manufacturer contact information

WatchGuard. Inc.
415 E. Exchange, Allen, TX 75002-2616
Customer Service: 1-800-605-6734
Customer Service web portal: **https://support.watchguardvideo.com/**

Send us your suggestions

We want to hear from you. Tell us about your experience and how you are using the V300. We will do our best to accommodate any suggestions you may have in future revisions.

International customers, please contact your local distributor.

Trademark notices

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FCC and IC notices

This equipment complies with Part 15 of the FCC rules and Industry Canada licence-exempt RSS standard(s). This equipment should only be used with the antenna supplied by WatchGuard Video. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

WatchGuard V300 contains the following IDs:

FCC ID: YJV-VST400
IC: 9073A-VST-400

WatchGuard **WiFi base** contains the following IDs:

FCC ID YJV-VST500
IC: 9073A-VST500

Cet appareil est conforme à la Partie 15 des règlements de la FCC et Industrie Canada exempts de licence standard RSS. Cet appareil doit être utilisé uniquement avec l'antenne fournie par WatchGuard Video. Tout changement ou modification non expressément approuvée par le fabricant pourrait annuler l'autorité de l'utilisateur de faire fonctionner l'appareil.

WatchGuard V300 contient les identifiants suivants:

FCC ID: YJV-VST400
IC: 9073A-VST400

 WatchGuard WiFi Base contient les identifiants suivants:

FCC ID YJV-VST500
IC: 9073A-VST500

The device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standard(s) subject to the following two conditions:

1. The device may not cause harmful interference.

2. The device must accept all interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la Partie 15 des règlements de la FCC et Industrie Canada exempts de licence standard RSS soumis aux deux conditions suivantes:

1. Cet appareil ne peut causer des interférences nuisibles.

2. Cet appareil doit accepter toutes les interférences reçues, y compris les interférences qui peuvent perturber le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, cet émetteur radio ne peut fonctionner à l'aide d'une antenne d'un type et maximum (ou moins) Gain approuvé pour l'émetteur par Industrie Canada. Pour réduire le risque d'interférence avec d'autres utilisateurs, le type d'antenne et son gain doivent être choisis afin que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

The radio transmitters IC: 9073A-5 have been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna type (radio transmitter): WatchGuard part number WGP02541, 4.6 dbi gain, 50 Ohm impedance.

Ces émetteurs radios IC: 9073A-VST500 ont été approuvés par "Industry Canada" pour fonctionner avec les types d'antennes énumérés ci-dessous avec le gain maximal admissible et l'impédance d'antenne requise pour

chaque type d'antenne indiqué. Les types d'antennes ne figurant pas dans cette liste, ayant un gain supérieur au gain maximum indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil.

Type d'antenne (émetteur radio): WatchGuard Video part number WGP02451, 4.6 dBi gain, 50 Ohm impedance.

The antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Les antennes utilisées pour cet émetteur ne doivent pas être co- Les antennes utilisées pour cet émetteur ne doivent pas être co-localisées ou fonctionner conjointement avec une autre antenne ou un autre émetteur.

This device complies with Health Canada's Safety Code. The installer of this device should ensure that RF radiation is not emitted in excess of the Health Canada's requirement. Information can be obtained at **https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/radiation/safety-code-6-health-canada-radiofrequency-exposure-guidelines-environmental-workplace-health-health-canada.html**

Cet appareil est conforme avec Santé Canada Code de sécurité 6. Le programme d'installation de cet appareil doit s'assurer que les rayonnements RF n'est pas émis au-delà de l'exigence de Santé Canada. Les informations peuvent être obtenues: **https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/radiation/safety-code-6-health-canada-radiofrequency-exposure-guidelines-environmental-workplace-health-health-canada.html**

CE Declaration of Conformity

In accordance with the requirements of Radio Equipment Directive 2014/53/EU, Annex III, Module B, section 3 (c), WatchGuard Video declares that the radio equipment has been designed in accordance with harmonized standards and a full review of the equipment against the requirements of the following standards has been conducted. We confirm that the equipment is fully within the scope of these standards.

ETSI EN 301 489-17, V3.1.1: 2017

ETSI EN 300 328, V2.1.1: 2016

EN 55024:2010

EN 55032:2012/AC:2013

EN 62311:2008

IEC 62368-1:2018

RF Output Power

V300 Bluetooth	
Frequency Band	2.402 GHz to 2.480 GHz
Maximum Transmitted Power	0.6 dBm
V300 Bluetooth Low Energy	
Frequency Band	2.402 GHz to 2.480 GHz
Maximum Transmitted Power	-1.4 dBm
V300 WiFi	
Modes Supported	802.11 b/g/n
Frequency Band	2.401 GHz to 2.483 GHz
Channel Width	20 MHz
Maximum Transmitted Power – 802.11b	12.5 dBm
Maximum Transmitted Power – 802.11g	5.5 dBm
Maximum Transmitted Power – 802.11n	4.3 dBm

WiFi Base	
Modes Supported	802.11 b/g/n
Frequency Bands	2.401 GHz to 2.483 GHz
Channel Width	20 MHz
Maximum Transmitted Power – 802.11b	TBD
Maximum Transmitted Power – 802.11g	TBD
Maximum Transmitted Power – 802.11n	TBD

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Introduction

Welcome to the WatchGuard® V300 User Guide. This guide walks you through the basics of using your V300 Camera to collect video and audio evidence.

About this document

The user guide covers the basic components and operation of V300 and the V300 Transfer Station, including:

- Power on and off
- Record evidence
- Function button
- Categorizing events
- Pre-event and Record-After-the-Fact® (RATF)
- Automatic sleep and power off to help you save battery
- Maximum recording length and periodic recording alerts to help you save storage space
- Covert Mode

> **Note:** *This user guide covers the basic use of the V300. If you have a question that is not covered in the user guide, contact WatchGuard Customer Service at 1-800-605-6734.*

WatchGuard V300 Camera Overview

V300 is the next generation of the body camera. Features include:

- User-replaceable stand-alone battery
- Electronic turret (+15/-20 degrees adjustment)
- Momentary mute
- Wireless and Bluetooth enabled
- V300 Wi-Fi® base
- V300 USB base
- V300 Transfer Station
- 120 dB Wide Dynamic Range (WDR) that better resolves details in bright versus dark lighting situations
- 8MP ultra-sensitive back-side illuminated CMOS sensor with color nighttime vision performance
- Dual microphones for wind noise reduction in Evidence Library
- Stores 24 - 36 hours of events with 128 GB of storage
- Works with other V300 cameras and the 4RE to form a recording group
- Human perceptive playback filters—what an officer saw under the conditions versus an enhanced video
- Yardarm™ Bluetooth holster trigger sensor starts the V300
- The V300 Camera camera has a rating of IP67 from the International Electrical Commission. IP67 means the camera can be dropped into a body of fresh water up to 1.5 m deep for half an hour.

Related documents

- EvidenceLibrary (EL) Online Help
- Evidence Library 4 Web (EL4 Web) Online Help
- 4RE DVR In-Car Video User Guide

V300 Transfer Station and USB and WiFi bases

The V300 Camera needs a second generation transfer station and second generation portable bases. You can mount either the stand-alone battery in the Transfer Station or mount the camera and battery together. This allows you to charge and upload at the same time. The transfer station has a keyed orientation so that the cameras and battery only dock in one direction.

Both the USB base and WiFi base have a keyed orientation.

Using the V300

In this section...

- First Steps
- The Basics
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- Basic workflow (**page 14**)
- Wearing V300 Camera (**page 16**)
- Powering the camera on and off (**page 19**)
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    - Provisioning (**page 27**)
    - Uploading recorded events from storage (**page 30**)
    - Upgrading firmware *Momentary Muting of the Audio* **on page 23**
    - Charging the battery (**page 28**)
    - Associating with a recording group (**page 29**)

Using WatchGuard V300 Camera

The WatchGuard V300 Camera serves as a DVR to capture, process, and store video and audio evidence. Connect the camera to Evidence Library (EL) to configure it and upload video for evidence management.

The V300 Camera works with other V300 cameras and the 4RE DVR to form a recording group (page 61).

> **Note:** *The V300 cannot pair with the VISTA WiFi or VISTA XLT cameras in the same car. You can combine the results of all video for the same event in EL.*

Basic workflow

The following steps make up a basic workflow for using the WatchGuard V300 Camera during your shift:

> **Note:** *This workflow assumes the V300 battery is fully charged before the camera is checked out to start the shift.*

1. Check out V300 using Evidence Library (EL). (**page 27**)
2. Undock the camera.
3. Dock V300 in the WiFi base to pair it with the base and associate it with the local recording group. (**page 29**)
4. Undock the camera after it has paired with the Wi-Fi base.
5. Attach the V300 securely to your clothing. (**page 16**)
6. Start and stop recorded events. (**page 20**)
7. Categorize recorded events. (**page 22**)
8. Power the camera off. (**page 19**)
9. Dock the camera to upload recorded events ((**page 30**)) and charge its battery (**page 28**). Upload to EL.

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Wearing WatchGuard V300 Camera

The WatchGuard V300 Camera uses the Magnetic Chest Mount, with magnets to secure the mount to your clothing.

> ⛔ **Warning!** *Do not wear the Magnetic Chest Mount near sensitive medical equipment or implants such as pacemakers or other magnetically programmable medical devices. The chest mount uses magnets to hold the camera in place.*

Wear the V300 Camera on your clothing where it is most comfortable, convenient, and secure. Ensure that the lens is not obstructed and that it is aimed at the horizon. The mount is made to fit over the buttons or zipper in the center of your chest. You can wear it over your pocket or on the protective vest.

Wearing the center V300 Camera chest mount

To use the chest mount:

1. Separate the under-shirt bracket from the over-shirt bracket.

    a. Hold the under-shirt bracket in one hand.

    b. Lift both levers on the overshirt bracket with the other hand.

    c. While holding the levers up, pull the brackets apart.

2. Match the anchor tabs and camera slots on the overshirt bracket with the back of the camera. You can attach the camera before or after the mount is in place.

3. Place the under-shirt bracket under your shirt where you want to wear your camera.

4. Place the over-shirt bracket against the under-shirt bracket, with your shirt between them. (These will snap together forcefully.)

The magnets on both brackets line up automatically, securing the mount to your shirt.
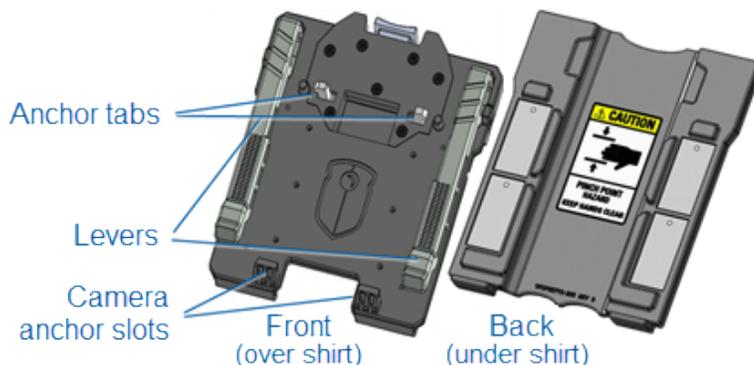
> ⚠️ **Caution:** *WATCH YOUR FINGERS! Because of the strength of the magnets, separating the brackets requires some effort. Realigning the brackets causes*

⚠️ *them to snap together forcefully. Keep your hand flat and keep your fingers away from the snap-to area.*

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V300 Camera Field Of View

WatchGuard V300 Camera **Field of View** can be configured for individual officers. The 130-degree wide-angle lens rotates vertically +15/-20 degrees. Each officer can set the camera angle based on where the camera is worn. The graphic below shows the difference of views for +15°, 0°, and -20° for a camera worn in the middle of the chest.

Automatic electronic turret adjustment

You can adjust the electronic horizon in two ways:

1. Adjust in the beginning of the shift with the camera menu. The camera will automatically calibrate the horizon and notify you the adjustment is complete.
2. Adjust the camera with manual horizon adjustment function on the smart phone application.

Note: *Only do automatic adjustment once in the first five minutes after boot up. Continuous adjustment can affect the camera in a negative way, such as an incorrect adjustment during a scuffle.*

Power On and Off

Use the **Power** button to power the WatchGuard V300 Camera on and off. The **Power** button is a rectangle on the bottom of V300 Camera.
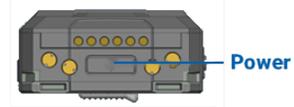
Power on

To power the camera on:

- Press and release the **Power** button.

The camera goes through its booting and information sequences. When it is ready to use, the display shows the number of events in storage and displays a solid green LED light on the front. The camera vibrates or ascending tones sound (depending on your configuration).

> **Tip:** *Press the Display Backlight button to advance through the information sequence screens.*

Power off

- Press and release the **Power** button.

  The camera prompts you to press the **Power** button again.

After you press the **Power** button the second time, the screen shows **SHUTTING DOWN** and the green LED turns off. Descending tones sound (depending on your configuration).

> **Note:** *You can configure the V300 Camera to power off automatically if it is left idle (no movement or button presses) for a period of time. See Automatic Off, page 56.*

Forcing power off

> **Warning!** *Avoid forcing the V300 to power off. Forcing the camera to power off can result in data corruption.*

If the V300 stops responding to commands (or if WatchGuard Technical Services instructs you to), remove the battery to force the camera to power off.

Starting and Stopping a Recorded Event

Use the **Record Start/Stop** button on the front of the camera to start or stop a recorded event.

If your WatchGuard V300 is a member of a recording group, the camera can start or stop a recorded event automatically. Another group member can alert that it has started or stopped an event. **See page 60.**.

Starting a recorded event manually

To manually start a recorded event on the V300:

- Press the **Record Start/Stop** button.

The display shows **RECORDING**. The dot above **REC** in the display begins to blink and shows the recording length. The camera LEDs appear solid red and ascending tones sound with a vibration (depending on your configuration settings).

As the recorded event continues, the display shows the length increasing every second and the storage indicators updating.
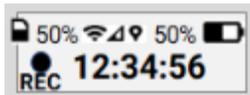
Stopping a recorded event manually

To manually stop a recorded event on the V300 Camera:

- Press the **Record Start/Stop** button.
- Press the **Record Start/Stop** button a second time within 5 seconds to confirm the event stop (depending on your configuration).

> **Important!** The V300 can be configured to NOT allow manual event stop. If you cannot stop the camera manually, when you press the **Record Start/Stop** button, two low tones sound with a vibration (depending on your alert notification selections) and the display reads **IGNORED** for 3 seconds.

On the camera the display and the front red LED turn off and the top LED turns green.

After a recorded event stops, if your configuration requires event categorization, the event categorization sequence starts (**page 22**).

You can configure the V300 Camera to stop a recorded event automatically. See *Maximum Recorded Event Time*, **page 57**.

Tip: *V300 automatically starts an event because a member of the local recording group reports that it started a group event. Within 10 seconds press the Record Start/Stop button to STOP the group event. The camera requests that you press a Record Start/Stop button again to confirm that you want to STOP the recorded event. If you do not press the button a second time within 5 seconds, V300 continues to record the event.*

*if V300 is NOT configured to require an event-stop confirmation (press the **Record Start/Stop** button again within 5 seconds), to confirm an event stop in the following scenario:* <mark>Still true?</mark>

V300 automatically starts an event because a member of the local recording group reports that it started a group event. Within 10 seconds press the Record Start/Stop button to STOP the group event. The camera requests that you press a Record Start/Stop button again to confirm that you want to STOP the recorded event. If you do not press the button a second time within 5 seconds, V300 continues to record the event.

Categorizing a Recorded Event

> **Note:** *Event categorization is set up in the WatchGuard V300 Camera configuration in Evidence Library (EL).*

To categorize a recorded event:

1. Stop the event manually or allow the camera to stop the event automatically.

   The **Backlight** turns on and the display shows the default **Category** on top, if not in **Covert** mode. The prompt times-out in 30 seconds if tagging is not required.

2. Press and release the **Backlight** button as many times as needed to move through the list of event categories, one at a time.

3. Press and hold for 2 seconds the **Function** (top) button when the event category you want to select appears on the display.

   The display shows the event type in small type and **SAVED** in large letters below the saved event type. The camera vibrates when the category is saved. One long tone sounds with a vibration (depending on your alert configuration).

If another recorded event starts (manually or automatically) while the camera is in the middle of the event categorization sequence, the camera aborts the sequence and starts the new event. Complete categorizing the recorded event in EL.

Categorizing an event on the camera in a recording group

If your camera is a member of a recording group, the camera can automatically accept an event category from the 4RE DVR group member as its own category. Any category selected directly on the V300() overrides the 4RE category.

If your V300 is connected to the SmartConnect smartphone app, <mark>categorize an event using SmartConnect and add secondary event tags.</mark> Any category selected on SmartConnect overrides a 4RE category. If you categorize an event on both the camera and the smartphone app, the last selected category, regardless of the device, is applied to the event ().

Momentary Muting of the Audio

> **Note:** *A configuration setting in Evidence Library controls whether you can mute your WatchGuard V300 Camera during a recorded event.*

Muting audio

To temporarily suspend recording of audio by muting the microphone:

1. Press and hold the **Backlight** button to briefly mute the audio. Audio resumes when you release the button.

   Your administrator must set the configuration to allow muting.

   The display shows **MUTED** while you hold down the **Backlight** button and **RECORDING** in a smaller font.

2. Release the **Backlight** button.

> **Tip:** *You cannot mute the audio while you are categorizing a recorded event. After you finish categorizing, you can again mute the audio.*

Continuous mute

Your system administrator enables continuous mute. If enabled:

▪ Press and Hold the **Function** button for 2 seconds to mute the microphone during an active recorded event. While muted, the camera displays MUTED on the LCD.

The camera alerts you every 15 seconds while it is muted. Your Admin configures the alert type under officer device preferences.

The camera continues recording with the microphone muted until you press the **Function** button again or stop the recording.

> **Note:** *Continuous mute and momentary mute can be configured and used simultaneously, if permitted by department policy.*

Docking the WatchGuard V300 Camera overview

Dock the V300 to recharge the battery, upload evidence, and update firmware. WatchGuard offers these bases where you can dock the V300:

- USB base (upload from)
- WiFi base (Upload via cellular in-car modem) (**page 47**)
- V300 Transfer Station(upload from) (**page 67**)

> **ℹ️** **Note:** *The camera and battery can only dock in one direction on the bases.*

You can dock the V300 Camera with the battery or dock the stand-alone battery in any of the three available bases. Use the Wi-Fi base for incidental charging during your shift. Charging in a vehicle base can impact the vehicle battery and can slow in warmer temperatures.

> **⚠️** **Caution:** *Battery charging stops at ambient temperatures greater than 35 degrees C (95 degrees F).*

While docked, you can:

- Charge the battery (**page 28**)
- Upgrade firmware
- Upload recorded events from storage (**page 30**)
- Define a Record-After-the-Fact$^{®}$ (RATF) event (**page 31**)
- Request a state capture for troubleshooting (USB base only)
- Upgrade the camera software (USB base and Transfer Station only) (**page 27**)

The V300 cameras and bases can interact only with other V300 cameras and the 4RE.

The V300 must interact with Evidence Library software to be customized for your agency. For that interaction to take place, the camera must be docked in a USB base or V300 Transfer Station connected to the computer running your Evidence Library software.

Docking the V300 Camera in a Transfer Station

⚠ Important! *Set up and configure the WatchGuard V300 Transfer Station (page 1) for use with your Evidence Library (EL) software.*

When you dock the V300 Camera and battery or just the stand-alone battery, in a V300 Transfer Station connected to Evidence Library software:

- The V300 stand-alone battery charges
- The V300 Camera time and date synchronize with the Evidence Library (EL) system

⚠ Caution: *V300 sets its internal date and time from the Evidence Library software computer. If the computer date and time is set incorrectly, the camera will be set incorrectly, and your video evidence will be marked with the incorrect date and time.*

- The camera communicates to the EL software that it has recorded events to upload; it can upload from eight cameras simultaneously
- EL sends commands and requests to the camera:
  - Mark any imported recorded events as import confirmed

    Events confirmed as imported are immediately unprotected. This makes the storage space available to be reused.
  - Update the configuration

    If the configuration is manually pushed to the camera (through the Evidence Library checkout process), The configuration is updated immediately.

    If the configuration is automatically pushed to the camera, the configuration is updated after the battery is undocked.
  - Stage a firmware upgrade

    The firmware upgrade is staged then applied to the camera immediately.

When you undock the camera and battery from the Transfer Station, they are ready for normal operation.

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Docking the V300 in a WiFi base

You can dock the camera in one direction only. The camera pairs with that base and with any other V300s that pair with the base. When you dock the camera and battery in a WiFi base that is connected to an Evidence Library (EL) Web upload server:

- The camera communicates to (EL) that it has recorded events to upload

> ℹ **Note:** *The camera must be configured to upload events directly to* EL *from the WiFi base. See your EL online help.*

- Recorded events are uploaded to EL
- EL sends commands and requests to the camera as applicable:
  - Mark any imported recorded events as import confirmed

    The events confirmed as imported are immediately unprotected. This makes the storage space available to be reused.
  - Stage a firmware upgrade

    The firmware upgrade is staged on the camera and applied immediately.

The camera is ready for operation when you undock it from the WiFi base.

Docking and UnDocking the V300 Camera in a USB base

Docking the camera in a USB base

When you dock the V300 Camera and battery in a USB base connected to a computer running Evidence Library (EL) software:

- The camera battery starts charging
- The V300 Camera time and date synchronize with the Evidence Library system
- The camera communicates to the Evidence Library software that it has recorded events to upload
- Recorded events are uploaded to the Evidence Library software
- EL sends commands and requests to the camera:
  - Mark any imported recorded events as import confirmed
  - Update the configuration
  - Stage a firmware upgrade
  - Generate an RATF event (**page 53**)
  - Generate a state capture

V300 Body Camera

USB Base

When you undock the camera from the USB base, it processes the EL commands and requests before it is ready for normal operation.

> **Caution:** *To prevent damage to computers, connect the USB base to the computer through the approved USB hub (Sabrent 7-Port USB 2.0 Hub, WatchGuard part number WGP02364).*

Undocking the camera from the USB base

Evidence Library commands and requests are only applied when the camera is undocked from a USB base. If you have commands and requests to process when you undock, the camera:

- Unprotects the events confirmed as imported

  This makes the storage space available.

- Updates the configuration

  The display reads **CONFIG**. The configuration update alert(??) sounds when the update is finished.

- Stages the firmware upgrade to perform the next time the camera is docked
- Generates an RATF event

  The display reads **CREATING RATF**.

> **Note:** *After generating the RATF event, the camera starts the event categorization sequence for the RATF event if it is configured to require event categorization(See Categorizing a Recorded Event, page 22).*

- Performs a state capture

  The display reads **STATE CAPTURE**.

After all commands and requests are processed, V300 is ready for operation.

Assigning a configuration and officer to the WatchGuard V300

> **Important!** *Before using the camera for the first time, fully charge and assign a configuration and officer to the camera.*

Depending on how your agency assigns its cameras, you may need to configure and assign the camera each time it is checked out.

To configure the camera:

1. Dock the camera in the USB base or V300 Transfer Station connected to the computer running your Evidence Library (EL) software.
2. Create and then assign a configuration and an officer to the docked camera using EL software.

As a configuration is applied to the camera, the display shows CONFIG. The configuration update alert sounds when the update is finished. The camera vibrates when the update completes.

V300 configuration

You can only create a V300 configuration in your Evidence Library software.

Some of the configuration properties you can set up for the V300 include:

- Agency or department name
- Time zone
- Officer name and badge ID
- Device ID
- Network preferences
- Power-saving preferences
- Event tags

- Officer preferences for indicators
- Recording group interaction
- Connecting to SmartConnect
- Network preferences
- Recording preferences
- Power and storage-saving preferences

See your EL online help for more information.

Charging the battery

A full charge in the transfer station or USB base can take 6 hours. The battery can run for approximately 12 hours on a full charge, depending on the configuration and video resolution.

- Dock the camera with battery or just the stand-alone battery in the USB base or the V300 Transfer Station.

  When you dock just the battery you won't have the feedback status from the LED window that you have when both are docked.

  The camera charges faster when docked in a USB base that is plugged into an electrical outlet or in a transfer station.

> **Tip:** *Before using the camera for the first time, fully charge the battery and configure the camera.*

WatchGuard recommends that you use the V300 USB base (plugged into an outlet) or the transfer station inside your agency when fully charging the battery. Charging in a vehicle base can impact the vehicle battery and can run slow in warmer temperatures. For the best battery life and fastest charging times, charge the V300 in a cool environment.

> **Important!** *Battery charging **stops** at ambient temperatures greater than 35 degrees C (95 degrees F).*

Camera charging display

While the V300 is charging:

- The green LED blinks
- The display alternates between CHARGING and the Device ID, and the Battery Charge icon animates

When the camera is fully charged:

- The display scrolls CHARGE COMPLETE once, then continuously shows the Device ID and the Battery Charge icon

- The display shows 100% and a fully-filled Battery Charge icon for a few seconds, then alternates between the Officer Name and the Device ID

- The green LED displays a steady light

- Two tones sound

Associating V300 with a recording group

When you dock your V300 in a WiFi base, the camera pairs with the base. This pairing allows the camera to associate with the local recording group that includes other V300 cameras and the 4RE DVR. A recording group is typically associated with a vehicle.

> **Note:** *You can pair multiple cameras with the same WiFi base.*

See *Using V300 with a recording group*, .

Uploading events

You can upload recorded events from your WatchGuard V300 Camera while it is docked in any of the bases:

- V300 Transfer Station

  Events upload automatically from a camera in the V300 Transfer Station.
- USB base

  You can upload recorded events automatically or manually, depending on the settings in your Evidence Library software. While the camera is uploading from a USB base, you can monitor its upload progress in the Evidence Library (EL) software.
- WiFi base

  Events upload automatically from V300 if the Wi-Fi base is connected to Evidence Library (EL) upload server.

  You can also upload over the cellular LTE connection to the EL upload server.

Note: *WatchGuard supports upload over a cellular connection using the Sierra Wireless® AirLink® MG90 High Performance Multi-Network Vehicle Router, and Cradlepoint COR IBR900 Series or IBR1100 Series.*

The camera must be configured to upload events to EL from the Wi-Fi base.

Important! *Critical events always upload first.*

Monitor event uploading

You can monitor the upload progress in Evidence Library.

- The display reads **XX of YY**, where **XX** is the current event being uploaded and **YY** is the total number of events to upload
- The bars on the **Storage Used** meter disappear
- The red LED fast blinks during the entire upload process

When the camera is finished uploading critical events:

- The display scrolls **CRITICAL COMPLETE** one time then returns to **XX of YY**
- The red LED continues to fast blink during the entire upload process
- One long tone sounds

When the camera is finished uploading all events:

- The display scrolls **UPLOAD COMPLETE**
- Two long tones sound

When the camera is finished uploading all events:

- The display reads **Uploading YY EVENTS COMPLETE** for 5 seconds, where **YY** is the total number of events uploaded
- Two long tones sound

Record-After-the-Fact® events

Use the Evidence Library software to define and request an RATF event from a docked camera configured with Record-After-the-Fact (RATF) enabled. The camera generates the RATF event after you undock it, then uploads the RATF event the next time you dock for upload.

Clearing video out of camera storage

Once the V300 Camera has successfully uploaded its recorded events to evidence storage, the camera no longer protects that storage space. It can be used for future recorded events.

For more information

See your Evidence Library Online Help.

About the V300 Camera

In this section...

- Overview (**page 11**)
- WatchGuard V300 Camera
- Video, Audio, and Subtitle Evidence
- Information Sequence
- Feedback indicators
- Storage
- V300 Transfer Station
- WiFi Base

WatchGuard V300 Camera components

The WatchGuard V300 is a body-worn HDR camera with Bluetooth, Wi-Fi, and GPS. The HDR camera sensor is separate from the camera DVR. V300 components include:

- Dual microphones
- Buttons:
  - **Function** (top)
  - **Power** (bottom)
  - Display **Backlight** button (side)
  - **Record** Start/Stop (front)
- Top **Status LED**
- User-replaceable **battery**
- **Storage** capacity for V300 is 24-36 hours
- The camera sensor for V300 is an ultra-wide dynamic range image sensor. This sensor:
  - Maintains rich colors at all light levels
  - Increases low-light sensitivity
  - Images have less digital noise and low-light performance can be improved by as much as an f-stop or more
  - The 130-degree wide-angle lens rotates vertically +15/-20 degrees
- The camera captures a balanced image:
  - Bright spots are toned down to prevent the image from being washed out
  - Dark images are augmented to expose the objects in the shadows

Microphone

V300 uses dual microphones for wind noise cancellation and gun shot detection. The digital microphone records CD-quality sound.

Depending on the configuration applied to the camera, the microphone:

- Continuously records audio (default setting)
- Only records audio when you press the **Function** button

You can mute the microphone (), pressing the **Function** button for 2 seconds, if the camera has be enabled for continuous mute .

Buttons

V300 has four buttons that control the camera functionality.
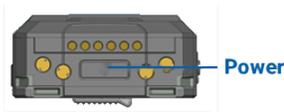
Power button

Use the **Power** button only to power the camera on or off. The **Power** button is on the bottom of the camera.

See *Power On and Off*, **page 19**.

Record Start/Stop button

Use the **Record Start/Stop** button to start or stop a recorded event (**page 20**) on the camera. The **Record Start/Stop** button is on the front of the camera. You can also use Record to interrupt the info sequence.

Function button

With the top button you can control:

- Covert mode
- Transitions from STOP REC to MUTED
- Tagging an event
- Display of event tags

Display Backlight button

The **Display Backlight** button is on the right side as you look at the front of the camera.

The backlight turns on when you power up the camera until it reaches the ready screen.

The backlight turns on when you power off the camera and remains on until the camera powers off.

Display Backlight functions

Use the **Display Backlight** button for multiple functions, including. Turn the display backlight on with one button press to:

1. Show the camera status on the display
2. Step through the status sequence:
    a. Press the Backlight button a second time, within 5 seconds, while backlight is on, to start the display of the status sequence
    b. Press the Backlight button while in status sequence, to advance to the next item in the sequence (At end of sequence, it starts over)
    c. End the sequence of status information on the display
        ○ The Backlight turns off about 8 seconds after going through all of the info screens,
        ○ The Record button interrupts the status sequence
3. Turn on a V300 access point (hotspot) for the SmartConnect smartphone application (**page 1**)
4. Cancel the sleep warning period (**page 55**)

5. Cancel the maximum recording time warning period (**page 57**)

6. Mute the audio momentarily (**page 23**)

V300 display

The display on the V300 shows icons and messages to indicate the status of the camera. The icons show in the top half of the display. The messages show in the 8-character area on the bottom half of the display. If a message is longer than 8 characters, the message scrolls. The display is on the top of the camera.

The display informs you of:

- **Status LED**

  Lets you know immediately if you are recording.

- **Battery status**

  As the charge level decreases, the number of bars in the **Battery Charge** icon decreases (**page 1**).

- **Current recording length**

  The recorded event length shows as HH:MM:SS, for example, **1:23:59**, and includes any configured pre-event time (**page 52**).

- **Date and time**

  The date shows as an abbreviation for the month with a 1- or 2-digit day of the month, for example, **NOV 3**.

- **Event categories**

  Each category shows as you cycle through the list, for example, **DOMESTIC**. If the item is longer than the window screen, the item scrolls. The list of categories is configured in your Evidence Library software.

- **Number of recorded events in storage**

- **Officer name**

- **Recording status**

  The **REC** icon (●**REC**) shows even if the camera is not recording.

- **Saved storage total**

  The saved storage total shows as a decimal value in GB, for example, **11.07 GB**.

- **Storage status**

  As the camera storage fills with recorded events, the **Storage Used** meter fills with bars and the **Storage Percentage** increases (**page 41**).

- **Upload status**, if docked in the V300 Transfer Station or the WiFi base

  The upload status shows the number of events uploaded out of the total number of events to upload. Critical events upload first (**page 30**).

- **Wi-Fi or GPS signal status**

  The Wi-Fi Signal Strength icon shows the status of the V300 Wi-Fi connection with the Wi-Fi base (**page 47**).

Display in different modes

- When the camera is not recording, the default message shown on the display is the number of recorded events in storage.
- When the camera is in Covert Mode and not recording, the default shown on the display is **COVERT**.
- When the camera is recording, the default shown on the display is the current recording length.

Video, Audio, and Subtitle Evidence

The V300 works as a DVR and camera combination to collect evidence in a recorded event. A recorded event is a unique, protected segment (**page 37**)of recorded:

- Video
- Audio (**page 37**)
- Subtitles (**page 37**)

Video

The V300 records one stream of video and compresses it using h.264 high-profile compression. Depending on the configuration applied to the camera, the video quality can be:

- High Dynamic Range function (HDR) (not available at 60 frames per second)

  HDR synthesizes different exposure conditions into an image so that bright and dark data can be seen at the same time. Lets you capture brilliant colors even when video is taken against bright light for video imaging and still imaging.

- High Definition (HD), **1080p**, at a rate of 30 frames per second, 1920 by 1080 pixels
- High Definition (HD), **720p**, at a rate of 30 or 60 frames per second, image resolution of 1280 by 720 pixels

Audio

The V300 records CD quality audio with dual microphones that give minimal distortion and wind noise. Depending on the configuration applied to the camera, it can:

- Continuously record audio
- Only record audio during recorded events

The V300 provides a continuous mute option that can be set by an Administrator in the EL software configuration. If continuous mute is enabled, hold down the top button for two seconds to cause the microphone to stay muted during an active recording event. While muted, the camera:

- Displays MUTED on the LCD (RECORDING displays on the LCD in a smaller font)
- Alerts you every 15 seconds (alert type set in EL)

The speaker provides better audible feedback.

Evidence Library will add the configuration to use *audio feedback* when you select Event Categories. **When you toggle to the next sequential category, the camera plays a click or buzz sound or series of clicks or buzzes to denote which category is selected (i.e. play two rapid clicks when toggled to the second event category)**

Subtitles

Subtitles are the text information that can be overlaid on the video. Subtitles can include:

WatchGuard V300 Wearable Camera User GuideWGD00169Revision A (Draft)

- Officer name
- Date and time
- Device ID
- Microphone on or off
- GPS location

> **Tip:** The subtitles are always included with the video and audio in a recorded event. Using your Evidence Library software, you can turn them off or on.

For more information...

See *Record-After-the-Fact®*, **page 53**

See *PreEvent Capture*, **page 52**

See *Assigning a configuration and officer to the WatchGuard V300*, **page 27**

See *Uploading events*, **page 30**

See *Using V300 with a recording group*, **page 60**

LEDs

Two bi-color LEDs on the front of the WiFi base show power and connection status. The left LED is either red or green.

Left LED (red and green)	
LED state	**WiFi base state**
Off	Powered off
Red	Undefined
Green	Powered on
Blinking red	Error condition
Blinking green	In shutdown or wireless upload timeout period

The left LED on the WiFi base blinks green when it successfully pairs with a V300 Camera. The left LED blinks red if the pairing was not successful.

The right LED is either green or amber.

Right LED (green and amber)		
LED state	**V300 or battery docked state**	**WiFi base state**
Off	---	Not connected to camera or upload server
Amber	Docked	Connected to upload server
Green	Not docked	Connected to camera (Wi-Fi connection)

Right LED (green and amber)		
LED state	V300 or battery docked state	WiFi base state
Blinking amber	Docked	Activity with upload server
Blinking green	Not docked	Activity with camera (Wi-Fi connection)

If two cameras are paired with the same WiFi base, and one is docked, the Wi-Fi base LEDs show the state of the docked camera and Wi-Fi base pair.

Information Sequence

The **Information Sequence** screens display the status of the camera as part of the bootup process or on-demand.

Press the **Display Backlight** button twice **within 2 seconds** to start the information sequence. The screens appear in this order:

1. Number of recorded events in storage and total saved storage in gigabytes.

   This screen also shows **RATF** (Record After The Fact) if RATF is enabled.

2. Officer name.

3. Date in the format DDD MM YYYY and 24-hour time in the format HH:MM:SS.

   DDD is the abbreviation for the day name. MMM is the abbreviation for month. DD is the abbreviation for the date number.

   For example, **MON JUL 22 2019** and **12:23:49**.

4. Device ID.

You can press and release the **Display Backlight** button to manually advance through information sequence screens. When manually advancing the sequence, each screen stays on the display about 4 seconds.

Storage

The V300 Camera stores 24 to 36 hours of HD video at 1080 pixels. The camera uses a 128 GB SD card.

When you need to free up storage space on the camera, upload recorded events (**page 30**) from the camera to Evidence Library.

The V300 display shows a **Storage Used** icon and percentage used for protected recorded events. As the camera records events and its storage fills, the **Storage Used** icon fills with black and the percentage increases.
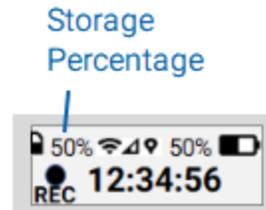
Low storage and full storage messages

When the camera is about 10 minutes away from running out of storage space, it alerts you with:

- Two short tones and/or a vibration (depending on your alert configuration settings)
- Slow-blinking red LED and **Storage Used** meter and icon on the display

When the camera storage is full, it alerts you with an error condition alert:

- Fast-blinking red LED
- Three short tones and/or a vibration (depending on the alert configuration settings)
- **FULL** message on the display

> ⛔ ***Warning!*** *If storage fills completely, the camera stops recording new video.*

Security

You can set a nonvolatile password—one that is not removed because of power loss. If the password is set, the card denies any read/write attempts to the card data unless a matching password is entered for the card. Even if someone found the camera and removed the SD card, they would not be able to read it and their PC would not be able to identify it.

Where and when is this password set?

As soon as power is lost, the SD card becomes inaccessible, unless the password is provided at system powerup.

Wi-Fi

The V300 includes built-in Wi-Fi (802.11n). You can run either Wi-Fi or Bluetooth and GPS off of a single battery charge and get about 18 hours at 720p with GPS off.

The V300 Camera pairs with the WiFi base. Once the camera and the base are paired, the camera is associated with the local recording group (page 29).

The Wi-Fi feature also lets the V300 operate as a Wi-Fi access point (hotspot) for the SmartConnect smartphone application .

V300 display

When V300 is paired with the Wi-Fi base, the camera display shows a **Wi-Fi Signal Strength** icon ( ) that indicates the strength of the Wi-Fi signal coming from the Wi-Fi base.

When V300 is operating as a hotspot for the SmartConnect app, the camera display shows a **Hotspot** icon.

For more information ...

See *Using V300 with a recording group*, page 1.

See *Appendix A: Using the SmartConnect App*, page 1.

GPS

The V300 Camera includes a built-in Global Positioning System (GPS).

V300 uses the GPS feature to apply:

- Accurate timestamps to recorded events

  These timestamps allow Evidence Library (EL) to synchronize playback between events (video and/or audio) from the V300 cameras and a 4RE DVR.

- GPS location coordinates to the V300 recorded events

Both the timestamps and the location coordinates are included in the subtitles during playback in EL.

> ℹ️ **Note:** *The GPS feature can be disabled in your EL configuration.*

GPS Tracking

GPS Tracking (active) if the camera is lost, attempts to find the camera.

V300 Transfer Station

You can mount either the battery in the V300 Transfer Station or mount the camera and battery together.

Graphic to show both views

When you dock the V300 Camera, the camera automatically starts charging, if needed. The camera also uses the Transfer Station to:

- Upload recorded events from storage
- Configure the camera
- Update firmware

The Transfer Station lets your Evidence Library software interact with multiple V300 Cameras simultaneously. You can connect multiple Transfer Stations to one instance of Evidence Library software.

Each Transfer Station has eight slots for cameras.

LEDs

Three LEDs on each slot of the Transfer Station show power and connection status:

- **Green, left position**: When lit, indicates that the Transfer Station is powered on
- **Amber, center position**: When lit, indicates that the Transfer Station is connected to Evidence Library software; when blinking, indicates data is being transferred
- **Red, right position**: When lit, indicates an error condition

Connections

The Transfer Station has connections for both a power cable and an Ethernet cable. You power the Transfer Station off and on using the power switch.

VISTA Transfer Station bottom

Power cable connector

Power switch

Ethernet cable connector
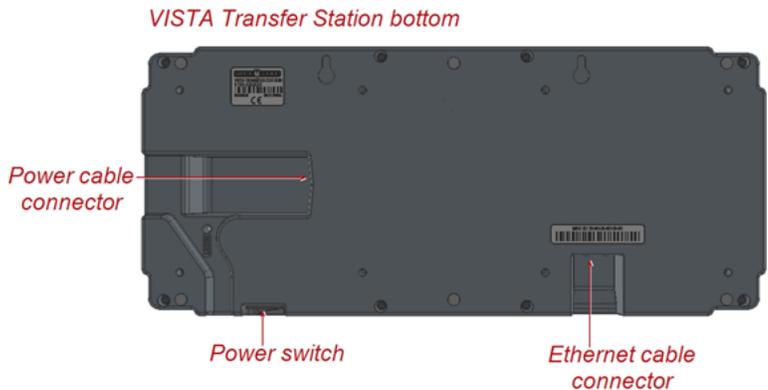
See *Docking the V300 Camera in a Transfer Station*, **page 25**

Setting up the V300 Transfer Station

For instructions on how to set up the Transfer Station, See *Transfer Station Setup Overview*, **page 68**.

USB base

Both the USB base and WiFi base have a keyed orientation so that the cameras and batteries only dock in one direction. You can doc the battery or the camera with the battery. You can dock the camera without the mounts attached.

When you dock the V300 in the USB base, the camera automatically starts charging, if needed. The camera also uses the USB base to:

- Upload recorded events from storage
- Configure the camera
- Update firmware
- Define a Record-After-the-Fact® (RATF) event
- Request a state capture for troubleshooting

Connections

The USB base has connections for both a power cable and a USB cable (**page 26**).

Setting up the USB base

⚠ **Caution:** *To prevent possible damage to some computers, connect the USB base to the computer through the approved* USB hub (Sabrent 7-Port USB 2.0 Hub, WatchGuard part number WGP02364). CHECK THIS

To set up the USB base to use with a V300 Camera and your Evidence Library software:

1. Set up the approved USB hub and connect it to the computer where your Evidence Library software is located.
2. Plug the power cable for the USB base into an electrical outlet.
3. Connect the power cable to the USB base.
4. Connect the USB cable to the USB base and then into the approved USB hub.???

WiFi base

You can dock the WatchGuard V300 camera and battery or just the stand-alone battery in the WiFi base. The camera pairs with the base to:

- Associate with a local recording group

  The WiFi base acts as the Wi-Fi access point (**802.11n hotspot**) for the V300 Camera to connect to the local recording group network. The broadcast range for the Wi-Fi base depends on its current environment. The Wi-Fi base typically associates with two cameras at one time, but can associate with up to eight cameras.

- Update firmware
- Upload recorded events from storage (with an Evidence Library connection)
- Upload events from camera to in-car DVR via Wi-Fi.
- Charge the camera battery

  For example, you can have a second battery charging in the base while your first battery is on the camera.

> **Note:** *Charging in a vehicle base can impact the vehicle battery and can slow in warmer temperatures.*

> **Important!** *Battery charging shuts down at ambient temperatures greater than 35 degrees C (95 degrees F).*

LEDs

Two LEDs on the front of the Wi-Fi base show power connection status. The LEDs are light-sensitive and adjust to the ambient light.

Left LED

Left LED (red and green)		
LED	**State**	**WiFi base state**
No light		Powered off
Red	Solid	Charge error
Red	Blinking	Error condition Pairing not successful

Left LED (red and green)		
LED	**State**	**WiFi base state**
Red	Blinking	Error condition
Green	Solid	Fully charged
Green	Blinking	In shutdown or wireless upload timeout period
Green	Blinking	**Does something go her or should I remove?**

The left LED on the Wi-Fi base blinks green when it successfully pairs with a V300 Camera. The LED blinks red if the pairing was not successful.

> **Note:** *If you get a solid red light, try undocking and redocking your battery. If solid red appears repeatably, contact Customer Service.* **Is this ok?**

Right LED

Right LED (green and amber)		
LED state	**State**	**WiFi base state**
Off		Not connected to camera or server
Amber	Solid	Connected to upload server (EL)
Amber	Blinking	Activity with upload server (EL)
Green	Solid	Connected to camera (Wi-Fi connection)
Blinking green	Blinking	Activity with camera (Wi-Fi connection)

If two cameras are paired with the same WiFi base, and one is docked, the Wi-Fi base LEDs show the state of the **docked** camera and Wi-Fi base pair.

Connections

The Wi-Fi base has connections for a Wi-Fi antenna cable and a WatchGuard-provided custom power and data cable on the back.

The Wi-Fi base power and data cable must connect to the SPS. For more information about the Wi-Fi base as part of the local recording group network, See *Using V300 with a recording group*, **page 60**.

Setting up the V300 WiFi Base

Typically, the WiFi base, its windshield antenna, and the SPS are installed in the vehicle by your agency installation technicians. For more information about installing the V300 system equipment in the vehicle, see the *4RE Vehicle Installation Instructions*.

V300 Special Features

In this section...

Overview

> ⚠ **Important!** *All of the special features are configured in your Evidence Library software.*

The V300 Camera contains features that give you more recording options and help you save battery power and storage.

- **Recording features**:

  - **Pre-Event Capture**: captures and saves up to two minutes of video before a recorded-event start (([**page 52**](#)))

  - **Record-After-the-Fact®**: capture video that you didn't get when it happened. Enabled RATF lets the camera continuously capture and save video (([**page 53**](#))).

  - **Force Microphone On**: captures audio whenever it is capturing and saving video (([**page 54**](#)))

- **Battery and storage saving features** that help save battery power:

  - **Sleep power state**: the camera enters a low power state after a period of time with no activity (([**page 55**](#)))

  - **Automatic Off**: the camera turns itself off after a period of time with no activity (([**page 56**](#)))

  - **Maximum Recorded Event Time**: the camera automatically stops a recorded event when it reaches a specified duration (([**page 57**](#)))

  - **Recording Reminder Alert**: the camera notifies you at regular intervals that it is still capturing a recorded event (([**page 58**](#)))

PreEvent Capture

The **PreEvent Capture** feature lets you add up to two minutes of video before starting a recorded event. When either **PreEvent** or **RATF** are enabled, the camera continuously captures and saves video when it is powered on. You enable **PreEvent** in Evidence Library (EL).

PreEvent supported values are none, 15 secs, 30 secs, 1 and 2 min. You can configure PreEvent to include audio or not. You can have audio for the event but not for PreEvent. The evidence is always written to disk.

As shown in the graphic, you start a recorded event at 2:15 PM and stop it at 2:35 PM. With a **PreEvent Capture** time configured for one minute, the recorded event includes video recorded from 2:14 PM to 2:35 PM.
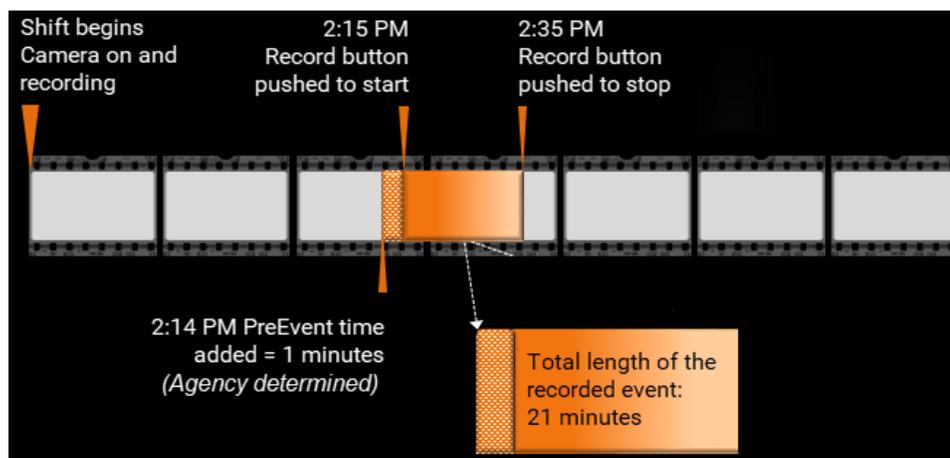
Note: *V300 can start a recorded event automatically (page 20) when associated with a recording group.*

Audio

Audio is NOT typically included with pre-event video. Typically, the V300 Camera only begins to record audio when you start a recorded event.

You can include audio whenever the camera is recording if you enable the Force Microphone On feature. For information about this feature, See *Force Microphone On*, **page 54**.

Record-After-the-Fact®

The Record-After-the-Fact (RATF) feature lets you continuously capture and save video you can use to generate an RATF event. You enable RATF in your Evidence Library software.

The V300 works as a DVR and camera combination to record events. When you start and stop a recording the camera protects the segment between the recording start and stop as a recorded event.

> 💡 **Tip:** *V300 can start and stop a recorded event automatically when associated with a recording group (page 20).*

Generating an RATF event

If RATF is enabled on the V300 Camera, you can use your Evidence Library software to send a manual request to the camera to generate and retrieve an RATF event. An RATF event typically consists of video that was not originally part of a recorded event. For more information about generating and retrieving an RATF event, see your Evidence Library software user guide.

> ❗ **Important!** *The Evidence Library software can only send an RATF event request to a V300 Camera docked in the USB base.*

Storage

When you enable RATF, the camera overwrites the oldest unprotected (nonrecorded event) area in storage with any newly captured video or recorded events. This process can continue until the camera's storage is filled with recorded events (protected recordings). Then you must upload recorded events to your Evidence Library software to free up storage space before you can continue to use the camera.

Audio

Audio is NOT typically included in the saved video when RATF is enabled. The V300 only begins to record audio when a recorded event is started.

You can include audio whenever the camera is capturing and saving video if you enable the Force Microphone On feature (page 54).

Force Microphone On

The **Force Microphone On** feature lets you capture audio whenever the V300 camera is capturing and saving video. Audio is **NOT** typically included in pre-event video or Record-After-the-Fact® events.

> **Note:** When you enable Force Microphone On, the camera captures audio with both pre-event video (**page 52**) and RATF events.

Force Microphone On is set in the configuration settings of Evidence Library by your Administrator.

For more information about...

Recorded events, See *Video, Audio, and Subtitle Evidence*, **page 37**.

Pre-event video, See *PreEvent Capture*, **page 52**.

RATF events, See *Record-After-the-Fact®*, **page 53**.

Recording groups, See *Using V300 with a recording group*, **page 60**.

Sleep Power State

The Sleep power state on the V300 Camera allows the camera to go into a low-power state designed to help you conserve battery power. You configure the Sleep state in your Evidence Library software.

When the V300 Camera is configured for Sleep state, after a period of time with no movement and/or button presses, the camera enters a low power state where it cannot capture any video or audio.

The Sleep power state provides a significant reduction in power consumption. Starting with a fully charged battery, the V300 Camera can remain in its Sleep power state for more than 30 hours before powering off due to a discharged battery.

For Sleep state, in your Evidence Library software you configure:

- Whether the camera will sleep or not
- What makes the camera sleep (lack of movement and/or button presses)
- How much time must elapse with no activity before the camera goes to sleep

When the camera is asleep, the display reads **SLEEP** and the green LED blinks slowly. The display continues to show battery and storage status indicators.

Sleep warning period

About 15 seconds before it goes to sleep, the camera warns you that it is about to go into Sleep state:

- Descending tones sound with vibration (depending on the configured alert notification)
- **SLEEP** blinks on the display

You can press the **Display Backlight** button or the **Record Start/Stop** button at any time to keep the camera from going to sleep.

> **Note:** Pressing the **Record Start/Stop** button also starts a recorded event.

Exiting Sleep state

The V300 Camera exits Sleep state when you move it or press a button. From Sleep state, the camera is ready to record in about 1 second.

Automatic Off

The **Automatic Off** feature on the V300 Camera lets the camera turn itself off after a period of time with no activity. You configure the Automatic Off feature in your Evidence Library software:

- Whether the camera will power off automatically
- What makes the camera power off (lack of movement and/or button presses)
- How much time must elapse with no activity before the camera powers off

As the V300 Camera powers down, the display reads **Shutting Down**, the green LED turns off, and descending tones sound (depending on the configured alert notification options).

Automatic off warning period

About 15 seconds before it automatically powers off, the camera warns you that it is about to power off:

- Descending tones sound with vibration (depending on the configured alert notification options)
- **POWER OFF** blinks on the display

You can press the **Display Backlight** button or the **Record Start/Stop** button at any time to keep the camera from going to sleep.

> *Note:* Pressing the **Record Start/Stop** button also starts a recorded event.

Maximum Recorded Event Time

Enabling **Maximum Recorded Event Time** lets the V300 Camera automatically stop a recorded event when it reaches a specified duration. You configure the Maximum Recorded Event Time in your Evidence Library software. You configure:

- Whether the camera will have a Maximum Recorded Event Time
- How long a recorded event can be before the camera automatically stops (0 - 24 hours)

Maximum Recorded Event Time warning period

Two minutes before it reaches the specified Maximum Recorded Event Time, the camera warns you that it is about to stop the recorded event:

- Two tones sound with a vibration (depending on your configuration)
- **AUTOSTOP** shows on the display

Can I get graphic of these two?

- For the rest of the **two-minute** warning period, **AUTOSTOP** alternates with the time remaining until the recorded event stops

Press the **Display Backlight** button to abort the warning period and keep the camera from stopping the recorded event. The camera continues recording for at least another Maximum Recorded Event Time period.

You can also press the **Record Start/Stop** button to manually stop the recorded event.

Recording Reminder Alert

The V300 Camera notifies you at regular intervals that it is still capturing a recorded event. Configure **Recording Reminder Alert** in your Evidence Library software to remind you periodically that V300 is recording an event. Reminders include:

- Two tones sound with a vibration (depending on the configured alert notification options)
- The recording duration blinks on the display with the tones/vibration, then remains on the display

You configure:

- Whether the camera will notify you regularly that it is still recording
- How often the camera notifies you that it is still capturing a recorded event

Covert mode

In Covert mode the V300 Camera makes no sound and is dark. The display backlight can light up on demand, depending on your configuration. The camera can still vibrate in Covert mode (depending on the configured alert notifications). All V300 functions operate the same way in Covert mode as they do in normal mode.

Enter Covert mode

■ Press and hold the **Function** button for 5 seconds to transition to **Covert** mode.

The camera vibrates and the display shows **READY**, then **COVERT**.

The display is inverted while the camera is in Covert mode. All content on the display is the same in Covert mode as in normal mode.

Note: *If the camera goes to sleep () while in Covert mode, when the camera wakes up, it is still in Covert Mode.*

Exit Covert Mode:

■ Press and hold the **Function** button for 5 seconds to transition to Overt mode (LEDs on, display backlight on).

The Evidence Library administrator can set whether officers can enter and exit Covert mode.

Using V300 with a recording group

In this section...

Overview

When you dock V300 in the Wi-Fi base, the camera pairs with the base. This pairing lets the camera associate with other V300 Cameras as a local recording group.

The decision to create an event for the group recording is made by each device in the local recording group network. This is called **Distributed Multi-Peer Recording**™. Starting a recorded event on one device alerts the other devices in the group that there has been a change in recording status on that device. In response, the other devices in the group can start recording an event, each according to its own configuration. Recordings from the individual cameras are uploaded and automatically linked in evidence management software for viewing and sharing.

Recording Group Members

A recording group consists of a network of devices communicating with each other whenever one of them changes its recording status. A recording group is typically linked to a vehicle. The graphic below shows a standard arrangement for a recording group. A local recording group includes:

- SPS ((**page 61**))
- 4RE DVR, firmware version of 4.0.7 or later (**page 62**)
- Up to eight V300 Cameras
- One WiFi base

Another arrangement for a recording group could be the V300 Cameras without the 4RE or SPS. **Is the graphic correct? Any idea how I show bluetooth?**

For information about installing the equipment for the recording group in a vehicle, see the 4RE Vehicle Installation Instructions.

Smart Power Switch

As part of the local recording group network, the Smart Power Switch:

- Functions as the central connection point for a recording group

  Through the switch, the devices connect together to form a network, letting the 4RE DVR and V300 group members communicate with each other.

- Intelligently manages power within the local recording group network

  The SPS can detect the status of the devices in the network, whether they are powered on or have powered themselves off after finishing event upload or charging. When the switch detects that the devices in the local recording group network no longer need power, it shuts down any remaining devices connected to the local network, including itself.

- Functions as the local network DHCP server for the local recording group network and other devices connected to it (for example, wireless radio)

The SPS is **required** to form a recording group. There can only be one Smart Power Switch in a recording group.

4RE DVR

i **Note:** *The 4RE DVR must be at firmware version 4.0.7 or later to participate in a recording group.*

If your agency uses the 4RE DVR as part of a local recording group network, the 4RE DVR:

- Initiates group recordings

  The 4RE uses the recording group network to inform the other group members when it starts a recorded event. The other group members can then join in the group recording by starting their own recorded events.

- Stops group recordings

  The 4RE uses the recording group network to inform the other group members when it stops a recorded event. The other group members then stop their own recorded events.

  Only the 4RE DVR can stop a group recording. The other group members can stop their own individual recorded events; but, only the 4RE can stop all of the members' recorded events that are part of the group recording at the same time.

- Responds to group-recording starts by other group members

  Through the recording group network, the 4RE is informed by other group members when they start recorded events. 4RE can then join the group recording by starting its own recorded event.

- Passes on its event categorization to other members' recorded events in the group recording

  The category you assign on the 4RE to a recorded event that is part of a group recording is passed on to other group members' recorded events that are part of the same group recording. The other group members can choose to categorize their own recorded events, overriding any category passed to them by the 4RE.

The 4RE DVR connects to the recording group network with a wired connection into the SPS. It also connects (wired connection) to the power source (vehicle battery).

The 4RE DVR is REQUIRED to form a recording group. There can only be one 4RE DVR in a recording group. **(Do we need this statement?)**

For more information about the 4RE DVR, see the *4RE In-Car Video User Guide*.

V300 Camera

As part of the local recording group network, the V300:

- Pairs with the WiFi base

  After docking (**page 24**) and pairing the cameras with the Wi-Fi base, the pairing associates the cameras with the local recording group.

> **Note:** *You can have a maximum of eight cameras in a recording group with one Wi-Fi base.*

- Initiates group recordings

  The V300 Camera notifies the Wi-Fi base that it started a recorded event. The Wi-Fi base then uses the group network to notify the other group members that V300, has started an event. The other group members can join the group by starting their own recorded events.

- Responds to group-recording starts or stops by other group members

  Through the recording group network, the Wi-Fi base is notified by other group members when they start or stop a group recording. The base then notifies the cameras and a camera can start or stop its own recorded event with the recording group.

> **Tip:** *If the 4RE DVR or V300 Cameras are members of the same recording group, you can use the 4RE to control the V300 recorded event starts, stops, and categorizations. V300 functions like another camera connected to the 4RE DVR.*

> **Important!** *If a V300 moves out of range of its associated recording group network, it does not receive notifications of group recording starts and stops until it is back in range. V300 does not receive any 4RE event categorization notifications that are sent while it is out of range.*

V300 provides a wireless access point (hotspot) for the SmartConnect smartphone application. For information about connecting the SmartConnect application, see *Connecting to SmartConnect* on **page 1**.

Other Devices in a recording group

- Radio

  If present in the system, the wireless radio connects to the SPS.

  The 4RE DVR and V300 can use the radio to interact with Evidence Library 4 Web (EL4 Web) or EvidenceLibrary.com (EL) through an agency network access point. The connection between the wireless radio and the agency network (EL4 Web) is independent of the local recording group network.

- MDC/laptop

  The MDC (mobile data computer) or other laptop computer connects to the SPS.

  The computer only connects into the system through the SPS; it is not powered through the switch. If the computer is configured to be a DHCP client, it can also get its network address from the SPS.

- SmartConnect smartphone application

  SmartConnect connects wirelessly to V300. V300 acts as an 802.11n Wi-Fi access point (hotspot) for the smartphone.

For information about connecting the SmartConnect application to V300, See *Connecting V300 to SmartConnect for the first time* on .

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V300 Transfer Station

In this section...

- Overview (**page 67**)
- Setting up the V300 Transfer Station hardware (**page 69**)
- Completing V300 Transfer Station settings for configuration (**page 1**)
- Configuring the V300 Transfer Station for use with Evidence Library Software

V300 Transfer Station Overview

The V300 Transfer Station is a pass-though USB to Ethernet solution. The Ethernet throughput rate is 1-10 Gb. The transfer station supports simultaneous upload from eight V300 Cameras to the cloud and on premise storage. While uploading events, the transfer station can charge up to eight cameras.

When you set up the transfer station, you connect it to power and to the network containing the Evidence Library (EL) software.

> ⛔ **Important!** *To use the V300 Transfer Station to upload events, your Evidence Library software must be EvidenceLibrary.com (EL) or Evidence Library On Premise*

When the transfer station is on, the power LED is on. The graphic shows the LEDs on the front of the transfer station.

To set up the V300 Transfer Station:

1. Set up the V300 Transfer Station hardware. ((**page 69**))
2. Configure the V300 Transfer Station so the V300 Cameras docked in it will upload to your EL software. (page 1)

> ⛔ **Important!** *WatchGuard recommends that you be an IT administrator or have your IT administrator on-call to setup the Transfer Station.*

Transfer Station Setup Overview

The Transfer Station lets your agency upload video evidence to Evidence Library (EL) software from multiple V300 Cameras simultaneously. Each Transfer Station has eight slots for the V300 Cameras and stand-alone batteries. You can connect multiple transfer stations to one instance of Evidence Library software, but you must set up and configure each Transfer Station separately.

Important! *Use the Transfer Station to upload events to EL Cloud or EL On Premise.events.*

When the transfer station is on, the power LED is on. To set up the Transfer Station:

1. Set up the Transfer Station hardware. ((**page 69**))
2. Configure the Transfer Station so the V300s docked in it will upload to EL. (page 1)

Important! *WatchGuard recommends that an administrator set up the Transfer Station, or that your IT administrator be on-call.*

Setting up WatchGuard V300 Transfer Station hardware

The V300 Transfer Station lets your agency upload video evidence to Evidence Library (EL) software from multiple V300 Cameras simultaneously. Each V300 Transfer Station has eight slots for the V300 Cameras and batteries or stand-alone batteries. You can connect multiple transfer stations to one instance of Evidence Library software. Each transfer station must be set up and configured separately.

Important! *To use the V300 Transfer Station to upload events, your Evidence Library software must be EvidenceLibrary.com (EL).*

WatchGuard provides you with a

- Power cable
- Ethernet cable
- **Station ID and Slot #** stickers. Need part #s

WatchGuard offers rack options for mounting multiple transfer stations in the same location. For information, contact WatchGuard representative.

Set up the hardware

To set up the V300 Transfer Station hardware:

1. Use the provided **Station ID**/**Slot #** stickers to label the Transfer Station slots.

Tip: *The labels assume an alphabetic **Station ID**, for example, **A**, then slot numbers 1 through 8.*

Slot A5
Stickers

Slot A1
Stickers

Slot LEDs   V300 Camera   Transfer Station LEDs   Stand-alone battery

Important! *Enter the **Station ID** and **Location** that you entered when you configured the V300 Transfer Station for use with your Evidence Library software. The **Station ID** combined with the **Location** indicates a specific Transfer Station to Evidence Library.*

2. Connect the Ethernet cable to the Ethernet connector on the back of the Transfer Station.

3. Connect the power cable to the power connector on the bottom of the V300 Transfer Station and plug the power cable into an electrical outlet

4. Power the transfer station ON using the switch on the back. The serial number is on the bottom.

5. Connect the other end of the Ethernet cable to a computer that you have set up to access the V300 Transfer Station factory default configuration web page.

Tip: *Use the V300 Transfer Station factory default IP address to access the default configuration web page: **https://192.168.2.20**. The computer you use must have access to this network.*

To continue setting up the V300 Transfer Station, follow the instructions () to configure the V300 Transfer Station to work with your Evidence Library software.

V300 Transfer Station Configuration Settings

⚠️ **Important!** *To use the V300 Transfer Station to upload events, your Evidence Library software must be Evidence Library 4 or EvidenceLibrary.com (EL).*

Configure each V300 Transfer Station individually using a web page specific to the Transfer Station. When you configure the V300 Transfer Station, you configure:

- **Transfer Station Settings**
- **V300 Camera Settings** (page 73)

Admin Transfer Station Settings

1. Connect the Ethernet cable from the Transfer Station to the computer.
2. Open your web browser and enter https://**192.168.2.20**, the Transfer Station default IP address.
3. Log in to your Transfer Station web page on the **Secure Sign In** screen.
4. Enter the **Username** and **Password** (**Admin**, **V1$T@xfr**).

5. Click **login**.

Transfer Station Settings

The Current Transfer Station Configuration web page opens with the default Transfer Station default settings.

1. Assign a Static IP Address or let your DHCP server assign its IP address.

2. Enter the **Location** where the Transfer Station is located.

3. Enter the **Station ID** that identifies the current Transfer Station

   In the example above, V300 uses Building 415 as the location and B as the Station ID.

   EL uses these names to identify the individual Transfer Stations and location of the cameras.

> **Note:** The **Location** and **Station ID** fields each have a 32-character limit.
>
> *WatchGuard provides labels that assume an alphabetic Station ID combined with slot numbers 1 through 8.*

5. Enter your **IP Config** type, either **Static** or **DHCP** server assigned. For DHCP setup, see *DHCP IP Config***on the next page**.

   The first screen shows a Static configuration.

> **Note:** *WatchGuard recommends that you set up a pool of static IP addresses that you assign to your V300 Transfer Station.*

7. Complete the remainder of the settings.

8. Click **Save Settings**.

V300 Settings

1. Complete the **V300 Settings**.

2. Enter your Static IP addresses for each slot.

   The IP Slot numbers are hard coated.

   This window does not appear if you chose DHCP server assigned address.

SLOT 1	SLOT 2
IP Address	IP Address
10.2.1.101	10.2.1.102
SLOT 3	SLOT 4
IP Address	IP Address
10.2.1.103	10.2.1.104
SLOT 5	SLOT 6
IP Address	IP Address
10.2.1.105	10.2.1.106
SLOT 7	SLOT 8
IP Address	IP Address
10.2.1.107	10.2.1.108

Save V300 Settings

3. Click **Save V300 Settings**.

   Because the Transfer Station IP address changed, the default configuration web page is no longer valid and the system logs you out.

DHCP IP Config

If you choose to go with DHCP for your IP Config, complete the two screens shown here.

Current Transfer Station Configuration

TRANSFER STATION SETTINGS

Location	Station ID	IP Config
Building 415	B	DHCP ▾

☐ Date/Time Settings

[Save Settings]

V300 Camera Settings

Tenant ID	Upload Server Port	VISTA 3 IP Config
2b04017d-42fe-4fce-b548-7985614l	443	DHCP ▾

Upload Server Config	Primary Upload Server Hostname	Secondary Upload Server Hostname
Hostname (DNS) ▾	evidence.tx.svt.evidencelibrary.com	

[Save V300 Settings]

1. Enter the Tenant ID. (Optional. Call Customer Support to get the ID.)
2. Enter the **Upload Server Config**.
3. Enter the **Primary Upload Server Hostname**.
4. Enter the **Secondary Upload Server Hostname** (Optional)

V300 Camera Settings

Set the **Upload Server IP** address and **Port**, indicating the Evidence Library server where your cameras should upload video evidence.

> 💡 **Tip:** *The upload server for Evidence Library can also be called the Wireless Import Service.*

Upgrade V300 Transfer Station

To upgrade software or firmware, choose your files and click Upgrade for the one you want to upgrade.

WatchGuard V300 Wearable Camera User GuideWGD00169Revision A (Draft)
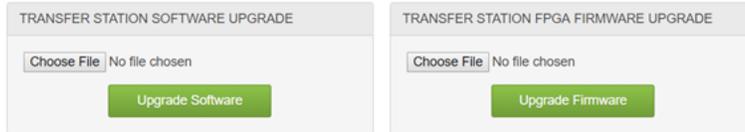
> ⛔ **Important!** *After you upgrade the Transfer Station, power it off and then on again so the cameras recognize the upgrade.*

Administrative functions

Only an Admin can perform the functions shown here.

Change Username and Password

To change the default Username and Password:

1. Enter a new Username.
2. Enter a new Password.
3. Click Save Changes.

   Because the login credentials changed, the server logs you out of the Transfer Station then asks you to log in using the new credentials.

Disable Transfer Station

Disable can function as another level of security. Disabling the configuration page after you finish configuring the Transfer Station prevents others from accessing the configuration page to make authorized changes. This includes other authorized administrators. To configure the Transfer Station after disabling, reset the Transfer Station back to factory defaults.

To reset the Transfer Station back to factory default:

1. Use a pin or paper clip
2. Press and hold for at least 7 seconds the Reset button on the bottom of the Transfer Station.

Restart Transfer Station

Click **Restart** to restart the current V300 Transfer Station.

Restarting interrupts any in-progress transfers between docked V300 Cameras and the EL upload server. After restart, log in to access the configuration web page.

Get Transfer Station Logs

1. Click **Get Logs** to get the Transfer Station logs.
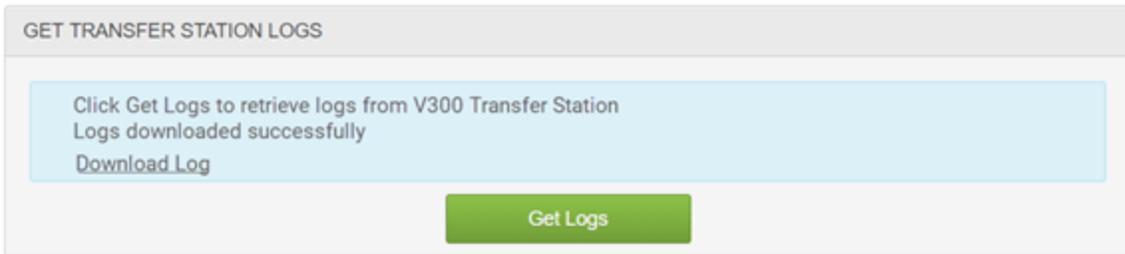
2. Click **Download log** to save the file to your desktop.

3. Contact your WatchGuard representative to provide the log and the version information shown here.

Internal Only - debug

V300 Transfer Station debug feature

An HTTPS web console lets you access a transfer station remotely, if the transfer station is accessible on the network through Ethernet/IP.

This feature provides the same access and control that is done with the debug console but eliminates the need for debug board, debug ribbon cable, and Serial-to-USB cable. [[[Undefined variable Variables.G2TSShort]]] boards with ESD protection do not provide physical console access. The HTTPS debug feature allows SVT and Engineering to continue using the transfer station console access over IP.

As long as you have access to the customer network, you can perform remote debugging.

- The debug page is hidden from customers, available only to Technical Support, Customer Service, and Engineering.

- The debug page is protected by a **TBD username** and **TBD password**

- Debug access is available in the released firmware

- The debug user logs onto the V300 Transfer Station

- All debug user key strokes are captured

- The slow blinking red LED means the V300 Transfer Station MAC address has not been provisioned.

V300 Utility tool

https://watchguardvideo.atlassian.net/wiki/spaces/G2WEAR/pages/796295342 /V300+utility+tool

The utility tool lets you perform basic tests including:

- Upload evidence from the camera to a local desktop
- Build an HTML page that includes all the DASH manifests
- Playback the evidence using 3 major browsers
- Upload and parse evidence database
- Upload and parse configuration
- Delete uploaded file locally, not on device