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What's New with the V300 Camera

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

- User-replaceable, stand-alone battery allows 24 hr shifts with same camera
- Electronic turret (+15/-20 degrees adjustment)
- Momentary mute
- V300 WiFi base
- Transfer Station II
- 120 dB Wide Dynamic Range (WDR) that better resolves details in bright versus dark lighting situations
- Reduced fisheye effect
- 8 MP back-illuminated HDR, WDR image sensor which realizes high picture quality in the visible light and near infrared light regions
- Dual microphones for wind noise reduction
- Stores 24 - 36 hours of events with maximum resolution and 30 frames per second with 128 GB of storage
- Works with other V300 Body Worn Cameras and the 4RE to form a recording group
- To prevent unauthorized access to your data, V300 Body Worn Camera elevates your data security with encryption at rest and in transit
- The V300 Camera has a rating of IP67 from the International Electrical Commission. IP67 means the camera can survive a drop into fresh water up to 1 meter (3 feet 3 inches) deep and for up to 30 minutes.
Transfer Station II and WiFi base

The V300 Camera needs a second generation transfer station and a V300 WiFi base. You can dock either the stand-alone battery in the Transfer Station II or WiFi base or dock the camera and battery together. Docking both lets you charge and upload at the same time. Both the Transfer Station II and WiFi base have keyed orientation so that the camera and battery only dock in one direction.

Related documents

- Evidence Library (EL) Online Help
- Transfer Station II Quick Start Guide
- 4RE DVR In-Car Video User Guide
Using V300 Camera Overview

The WatchGuard V300 Camera serves as a Digital Video Recorder (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 21).

**Note:** The V300 cannot pair as part of a group with the VISTA cameras in the same car. You can combine the videos of V300, VISTA WiFi, and VISTA XLT video captures for the same event in EL.
V300 Camera Field Of View

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

For best results, before using your V300 Camera for the first time:

1. Fully charge the camera and removable battery.

2. Ensure the camera software is current using Evidence Library (EL).

To charge the camera:

- Dock the camera in a Transfer Station II.

**Note:** The camera battery charges any time it is docked. A blinking LED means the camera is charging. A solid green LED on any of the bases means the battery is fully charged.

To configure the camera:

1. Dock the camera in a Transfer Station II.

2. Using EL, create and/or assign a configuration and an officer to the docked V300.

When the configuration is applied, the screen displays **Checked out to** on the first line and the officers name on the second line. The camera reboots to apply the configuration and displays the same information then transitions to an idle screen.
V300 Buttons

The V300 functions as an HD camera and DVR combination to collect video and audio evidence.

V300 has four buttons:

- **Function** (top): Press and Hold the Function button for Covert mode or to tag an event

- **Record Start/Stop**: Press the Record Start/Stop button to start or stop a recorded event

- **Display Backlight**: Press the Display Backlight button to:
  - Turn on the backlight for the LCD Display
  - See the camera status or review categories for an event recording
  - Press and hold to start momentary mute

- **Power**: Press and release the Power button to power V300 on or off
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 or jacket.

The magnets are strong with 65 pounds of pressure when snapped together.

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 with the thumb on top and the two middle fingers on the bottom.
   b. Raise the levers on both sides.
   c. Pull the front and back apart.
   d. While holding the levers up, pull the brackets apart.
2. Match the anchor tabs and camera slots on the over-shirt bracket with the back of the camera—keeping the magnets apart. 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. Line up the anchor slots and 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.
Removing V300 Camera Battery

You can remove the V300 battery and charge it separately from the camera. If you use a spare battery this ensures you never run out of power.

To remove the battery:

1. Power off the camera.
2. Slide the silver bar on the back of the camera to the left.
3. Pull straight down on the battery. Do not lift out.

To replace the battery, slide it into the tracks and push it back in until it clicks.
Running information sequence screens

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

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

   b. Officer name.

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

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

   d. Device ID.

2. 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.
V300 LCD Display

The LCD display shows:

- **Battery status backlight**
  
  The V300 battery charge lasts up to 12 hours, depending on your configuration. The camera display shows the icon and the percentage of battery remaining.

- **Storage status and number of recordings in storage**
  
  When recording in HD format, V300 Body Worn Camera can store about 36 hours of maximum-resolution events or up to about 200 hours at low resolution. As the storage on the camera fills, the storage icon fills and the percentage increases until storage is full.

- **Recording status and Recording length**
  
  The icon shows whether the V300 Body Worn Camera is recording. The time shows the recording length.

- **Assigned officer name**
  
  Officer with the camera checked out.

- **Current date and time**

  V300 Body Worn Camera sets its internal date and time from the Evidence Library computer.
• **Camera ID**
  
  Device ID or serial number.

• **Available event categories (page 19)**
  
  Categories are set by your agency.

### Error messages

If an error appears on the V300 display screen the top LED flashes red to show an error condition.

Press the **Backlight button** to acknowledge the error. The LED may then turn solid **amber** until the error is cleared by the camera. If it does not clear on its own, reboot the camera.

### 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 on the camera:

- 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 top. The camera vibrates or ascending tones sound (depending on your configuration).
Power off

To power off the camera:

- Press and release the Power button.

  The camera prompts you to press the Power button again.

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 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.

Both LEDs on the camera are green when recording and red when stopped.

**Starting a recorded event manually**

To manually start a recorded event on the V300:

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

**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 in EL to NOT allow manual event stop.

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 19).

**Momentary Muting of the Audio**

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

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**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 **REC** in a smaller font.

   ![MUTED and REC](image)

2. Release the **Backlight** button.
Categorizing a Recorded Event

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

To categorize a recorded event:

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

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 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 category. 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 saves the event category as unknown and starts a new event. Complete categorizing the recorded event in EL.

*Note: V300 always adds a tag to an event if you do not tag the event. For example, NO TAG or UNCATEGORIZED is applied.*

*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.
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Associating V300 Camera with a recording group

When you dock your V300 in a V300 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 (if present) the 4RE DVR. A recording group is typically associated with a vehicle.

*i* **Note:** You can pair multiple cameras with the same WiFi base. You cannot pair with VISTA cameras.

Group Events

The collaboration of V300 Cameras or V300 Cameras and the 4RE DVR creates a group event. Each device in the same recording group creates individual recorded events of the same incident. This shows a more comprehensive view of an incident.

When a group event is uploaded to Evidence Library (EL), the individual events are automatically linked together.

V300 Camera behavior during a group event

Any DVR device (4RE or V300 Body Worn Camera) in the recording group can start a group event. The other DVR devices in the group are informed of that change in event status, so they can join in the group event, each according to its configuration.
Recording Group Overview

When you dock V300 in the WiFi 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 through the WiFi base that there has been a change in recording status on that device. In response, the other devices in the group can start recording the 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.

Smart Power Switch (SPS)

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

- Functions as the central connection point for a recording group
- Intelligently manages power within the local recording group network
- 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

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:
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- Initiates group recordings
- Stops group recordings
- Responds to group-recording starts by other group members
- Passes on its event categorization to other members’ recorded events in the group recording

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).

V300 Camera

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

- Pairs with the V300 WiFi base

  After docking (page 23) and pairing the cameras with the WiFi 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 WiFi base.

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

  **Important!** If a V300 Body Worn Camera 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.
Docking the V300 Camera overview

Dock the V300 to recharge the battery, upload evidence, and update firmware. You can dock the V300 from:

- V300 WiFi base (page 26)
- Transfer Station II (upload from)

**Note:** The camera and battery can only dock in one direction on the bases. Do not remove the camera from the battery while charging. You can damage files on the camera.

You can dock the V300 Camera with the battery or dock the stand-alone battery in any of the available bases. Use the WiFi base for incidental charging during your shift. Charging in a vehicle base, without the vehicle running, can impact the vehicle battery and can slow charging in warmer temperatures.

**Caution:** If the ambient temperature gets too hot (95°+ F, 35°+ C) the battery can stop charging.

While docked, you can:

- Charge the battery
- Upgrade firmware for the V300 Camera from Transfer Station II
- Upload recorded events from Transfer Station II
- Define a Record-After-the-Fact® (RATF) event
- Request a state capture from Transfer Station II for troubleshooting
- Upgrade the camera software (Transfer Station II only)
The V300 cameras and bases can interact only with other V300 cameras and the 4RE.

The V300 must interact with Evidence Library (EL) to be customized for your agency. For that interaction to take place, the camera must be docked in a Transfer Station II.

**Transfer Station II Overview**

The Transfer Station II is a pass-through USB to Ethernet solution. The Ethernet throughput rate is 1-10 Gbps. The Transfer Station II supports simultaneous upload from eight V300 Cameras to the cloud. While uploading events, the Transfer Station II can charge up to eight cameras.

When you set up the Transfer Station II, you connect it to power and to the Evidence Library network.

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

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When the transfer station is on, the power LED is on. The LEDs on the front of the Transfer Station II are green.

To use the Transfer Station II:

1. Set up the Transfer Station II hardware.

2. Configure the Transfer Station II so the V300 Cameras docked in it will upload to EL.

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**Important!** You should be an IT administrator or have your IT administrator on-call to setup the Transfer Station II.

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See the Transfer Station II Quick Start Guide and the Evidence Library Online Help to set up your Transfer Station II.
Docking the V300 Camera in a Transfer Station II

**Important!** Set up and configure the Transfer Station II for use with Evidence Library (EL). See the Evidence Library Online Help.

When you dock the V300 Camera and battery in a Transfer Station II:

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

**Caution:** V300 Body Worn Camera 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.

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While docked:

- The camera communicates to the EL software that it has recorded events to upload. The Transfer Station II 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
  
  - Stage a firmware upgrade
    
    After staging, the upgrade is applied to the camera immediately.
  
  - The WiFi base software and/or firmware can be downloaded to the V300 camera

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

Docking the V300 in a WiFi base

You can dock the V300 Camera in one direction only. The camera pairs with that base and with any other V300 Cameras that pair with the base.

The camera is ready for operation when you undock it from the V300 WiFi base.

Upgrading WiFi base firmware

The WatchGuard V300 Camera automatically pulls firmware upgrades for the V300 WiFi Base from Evidence Library (EL) when the V300 is docked.
**WiFi base upgrade**

To upgrade the WiFi base:

1. Dock the V300 Camera in the Transfer Station II.
2. Upload events.
3. Undock the V300 after the firmware upgrade is complete.
4. Dock the V300 Camera in the WiFi Base in the vehicle.
5. Power cycle the in-car system so that the upgrade will take effect.

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**Note:**

*If you undock the camera before the upgrade is complete, it downloads it the next time the camera is docked. The upgrade does not take effect until the download is complete and the in-car system powers up.*

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*If the camera is undocked after the upgrade and then quickly redocked, the amber LED no longer shows. If the upgrade is already complete, no upgrade occurs. Return to step 4.*

*If the ignition is turned off, without completing the upgrade, the next time the camera is docked, the upgrade process begins again.*

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**Important!** *Do not remove the battery while the upgrade is in progress.*
Important Notice

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Firmware updates

WatchGuard is committed to the continual testing and improvement of our firmware. As new 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

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.

Wi-Fi® is a trademark of the non-profit Wi-Fi Alliance

All other marks, names, and logos mentioned herein are the property of their respective owners.
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 V300 WiFi base** contains the following IDs:

FCC ID YJV-VST500  
IC ID 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 ID 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
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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 isotope 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


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

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EN 55024:2010
EN 55032:2012/AC:2013
EN 62311:2008
IEC 62368-1:2018