V700 Body-Worn Camera User Guide

JUNE 2023

MN009878A01-B

Intellectual Property and Regulatory Notices

Copyrights

The Motorola Solutions products described in this document may include copyrighted Motorola Solutions computer programs. Laws in the United States and other countries preserve for Motorola Solutions certain exclusive rights for copyrighted computer programs. Accordingly, any copyrighted Motorola Solutions computer programs contained in the Motorola Solutions products described in this document may not be copied or reproduced in any manner without the express written permission of Motorola Solutions.

No part of this document may be reproduced, transmitted, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, without the prior written permission of Motorola Solutions, Inc.

Trademarks

MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners.

WATCHGUARD and Evidence Library are trademarks or registered trademarks of WatchGuard Video, Inc.

License Rights

The purchase of Motorola Solutions products shall not be deemed to grant either directly or by implication, estoppel or otherwise, any license under the copyrights, patents or patent applications of Motorola Solutions, except for the normal non-exclusive, royalty-free license to use that arises by operation of law in the sale of a product.

Open Source Content

This product may contain Open Source software used under license. Open Source licenses, legal notices, attribution, and corresponding open source software are available upon request.

European Union (EU) and United Kingdom (UK) Waste of Electrical and Electronic Equipment (WEEE) Directive

The European Union's WEEE directive and the UK's WEEE regulation require that products sold into EU countries and the UK must have the crossed-out wheelie bin label on the product (or the package in some cases). As defined by the WEEE directive, this crossed-out wheelie bin label means that customers and end-users in EU and UK countries should not dispose of electronic and electrical equipment or accessories in household waste.

Customers or end-users in EU and UK countries should contact their local equipment supplier representative or service centre for information about the waste collection system in their country.

Disclaimer

Please note that certain features, facilities, and capabilities described in this document may not be applicable to or licensed for use on a specific system, or may be dependent upon the characteristics of

a specific mobile subscriber unit or configuration of certain parameters. Please refer to your Motorola Solutions contact for further information.

Contact Us

The Centralized Managed Support Operations (CMSO) is the primary contact for technical support included in your organization's service agreement with Motorola Solutions.

Service agreement customers should be sure to call the CMSO in all situations listed under Customer Responsibilities in their agreement, such as:

- To confirm troubleshooting results and analysis before taking action

Your organization received support phone numbers and other contact information appropriate for your geographic region and service agreement. Use that contact information for the most efficient response. However, if needed, you can also find general support contact information on the Motorola Solutions website, by following these steps:

1   Enter motorolasolutions.com in your browser.

2   Ensure that your organization's country or region is displayed on the page. Clicking or tapping the name of the region provides a way to change it.

3   Select "Support" on the motorolasolutions.com page.

Comments

Send questions and comments regarding user documentation to documentation@motorolasolutions.com.

Provide the following information when reporting a documentation error:

- The document title and part number

- The page number or title of the section with the error

- A description of the error

Motorola Solutions offers various courses designed to assist in learning about the system. For information, go to https://learning.motorolasolutions.com to view the current course offerings and technology paths.

Document History

Version	Description	Date
MN009878A01-002	V700 1.0.1 release	May 2023
MN009878A01-001	Initial 1.0.0 release (GA)	May 2023
MN009878A01-000	Initial beta release	February 2023

FCC and IC Notices

FCC and IC Notices

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

Motorola Solutions V700 is assigned the following IDs

FCC ID AZ499FT7164

IC 109U-99FT7164

Motorola Solutions WiFi base contains the following IDs:

FCC ID YJV-VST500

The device complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standards 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.

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.

Avertissements de la FCC et IC

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 Motorola Solutions, Inc. Tout changement ou modification non expressément approuvée par le fabricant pourrait . annuler l'autorité de l'utilisateur de faire fonctionner l'appareil

Motorola Solutions V700 se voit attribuer les identifiants suivants
FCC ID AZ499FT7164

Motorola Solutions WiFi base contient les identifiants suivants:

FCC ID YJV-VST500

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.

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.

Supplier's Declaration of Conformity

Declaration of Conformity

Per FCC CRF 47 Part 2 Section 2.1077(a)

Responsibility Party

Name: Motorola Solutions, Inc.

Address: 2000 Progress Pkwy, Schaumburg IL, 60196

Phone Number: 1-800-927-2744

Hereby declares that the product V700 conforms to the following regulations:

FCC Part 15, subpart B, section 15.107(a), 15.107(d), and section 15.09(a)

Class B Digital Device

As a personal computer peripheral, this device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and

- This device must accept any interference received, including interference that may cause undesired operation

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna

- Increase the separation between the equipment and receiver

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

- Consult the dealer or an experienced radio/TV technician for help

NOTE: Transfer Station II has been tested and found to comply with the limits for Class A digital device, pursuant part 15 of the FCC.

Important Safety Information

RF Energy Exposure Training and Product Safety Information for Mission Critical Devices.

NOTICE: ATTENTION! This mission critical device is restricted to Occupational use only. Before using the mission critical device, read the RF Energy Exposure Training and Product Safety Information for Mission Critical Devices manual which contains important operating instructions for safe usage and RF energy awareness and control for Compliance with applicable standards and Regulations. This equipment is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. For body worn operation, this device has been tested and meets the FCC RF exposure guideline for use with a Motorola Solutions, Inc. approved accessories sold with this device.

Contents

List of Figures

List of Tables

Chapter 1

Introduction

Welcome to the V700 Body-Worn Camera User Guide. This guide is designed to walk you through the basics of using your V700 to collect video and audio evidence.

> **NOTE:** This user guide documents V700 features through firmware version 1.0.1.

About This Document

The V700 Body-Worn Camera User Guide provides instructions for using a V700 during your shift. For more information on using a V700 during your shift, see V700 During a Shift on page 18.

This user guide includes information about the basic components and operations of V700. For more information on the components and operations of your V700, see V700 Overview on page 52.

This user guide also includes information for the following features:

- V700 Connection with CommandCentral Aware on page 70
- LTE Wireless Service on page 86
- SmartControl for Mobile on page 73

The images in this document are representative of what you could see on your screen. They are meant to serve as a guide.

> **NOTE:** This document covers the basic use of V700. It is not a comprehensive manual for every possible action or situation you could experience when using your V700. If you have a question about your V700 that is not covered in this document, contact your Motorola Solutions representative.

1.1
About the V700 Body-Worn Camera

The V700 Body-Worn Camera captures, processes, and stores video and audio evidence.

The V700 includes the following:

- Dual microphones (Microphone on page 58)
- Display screen (V700 Display on page 54)
- Buttons (V700 Buttons on page 56)
- Top **Status LED**
- User-replaceable battery (V700 User-Replaceable Battery on page 58)
- Storage capacity for V700 is 24-36 hours at max resolution and frame rate
- Ultra-wide dynamic range image sensor

The V700 connects to your agency evidence management system for provisioning and uploading recorded events.

> **NOTE:** For more information, see V700 During a Shift on page 18 and V700 Overview on page 52.

1.2
Related Documents and Information

For subjects related to your V700 body-worn camera that are not covered by the V700 Body-Worn Camera User Guide, see the following documents:

• M500 In-Car Video System User Guide

• V300 Body-Worn Camera User Guide

• Transfer Station II Quick Start User Guide

• 4RE® In-Car Video User Guide

1.3
Prerequisites and Requirements

Ensure that you complete the prerequisites and meet the requirements.

Prerequisites

• The V700 requires a second-generation transfer station, WiFi Base, and/or USB Base

> **NOTE:** You can dock either the stand-alone battery in the bases or the camera and battery together. Docking both allows you to charge and upload at the same time. However, docking a spare battery allows you to have a second battery available when needed. The camera and battery only dock in one direction.

• Transfer Station II provisions the V700 to your agency evidence management system

• USB upload requires that your Primary Domain Name is set in your agency evidence management system and that you have an IP address set for the DNS Server Primary field
For more information, see USB Dock and Upload on page 50.

Reserved IP Addresses

V700 components require the following reserved IP addresses:

• 192.168.99.x (USB and WiFi Base)

• 192.168.98.x (SmartControl)

• 192.168.97.x (reserved for future use)

If you assign your in-car network any of these IP address ranges, you may have communication issues.

Warning

> **WARNING:** If the V700 is lost or there is any suspicion that it was tampered with, do not connect the camera to your network or place it in a USB Base or WiFi Base. You should return the camera to Motorola Solutions to download the evidence and perform a factory reset; this ensures no damage is caused to the servers by malicious code placed on the camera.

Chapter 2

V700 During a Shift

The V700 Body-Worn Camera allows you to capture, process, and store video and audio evidence. Your V700 connects to your agency evidence management system for provisioning and uploading evidence.

The following sections provide you with instructions of common tasks that you need to perform on the V700 throughout your shift:

Start of a Shift

During a Shift

End of a Shift

2.1
Power On and Off

To power the V700 on and off, you must use the **Power** button. The **Power** button is the oval shape on the bottom of the V700 battery.

Figure 1: V700 Power On and Off Button

2.1.1
Powering On

Procedure:

> On the bottom of the camera battery, press and release the **Power** button.

The camera goes through the 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. Depending on your agency configuration, the camera vibrates or plays an ascending tone sound.

2.1.2
Powering Off

Procedure:

1 On the bottom of the camera, press and release the **Power** button.

2 After the prompt, 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. Depending on your configuration, descending tones sound.

2.1.3
Forcing Power Off

⚠️ **WARNING:** Avoid forcing the V700 to power off by abruptly removing the battery without going through the shut down procedure above. Forcing the camera to power off can result in data corruption.

If the V700 stops responding to commands, or if technical services instructs you to, you can force the camera to power off.

Procedure:

> To force the camera to power off, remove the battery.

The V700 may show `System Recovery` on the screen at the next boot.

> **NOTE:** Allow the camera up to 10 minutes to complete the storage verification process.

2.2
Wearing the V700

The V700 can be mounted to your uniform using the following types of mounts:

- Center Chest Mount (Mounting the Center Chest Mount on page 20)

- Locking Molle Mount (Mounting the Locking Molle Mount on page 22)

- Shirt Clip Mount (Mounting the Shirt Clip Mount on page 23)

- Jacket Clip Mount (Mounting the Jacket Clip Mount on page 25)

- Heavy Jacket Magnetic Mount (Mounting the Heavy Jacket Magnetic Mount on page 27)

- Belt/Strap Mount (Mounting the Belt/Strap Mount on page 28)

> **WARNING:** Potential Medical Device Interference.
> This Center Chest Mount and the Heavy Jacket Mount incorporate very strong magnets. If you are using a personal medical device, such as a pacemaker or other programmable medical devices, talk to your health care provider, or consult the manufacturer of your device before using these mounts. Determine if your personal medical device can be used in close proximity to magnets. If in doubt, do not use the Center Chest or Heavy Jacket Mounts.
>
> Talk to your health care provider if you are experiencing any symptoms or have questions regarding magnets.
>
> Also, be aware that magnets can damage other products, including cell phones, computers, hard drives, and other electronic devices, as well as credit cards and magnetic media. Keep these mounts away from any devices that can be affected by a magnetic field.

You should wear the V700 on your clothing and vest where it is most comfortable, convenient, and secure. Ensure that the lens is not obstructed and that it is aimed at the horizon.

2.2.1
Mounting the Center Chest Mount

The center chest mount is made to fit over the buttons or zipper in the center of your chest. You can also wear it over your pocket or on the protective vest or jacket. The magnets are strong with 65 pounds of pressure when snapped together.

When and where to use:

Figure 2: Center Chest Mount
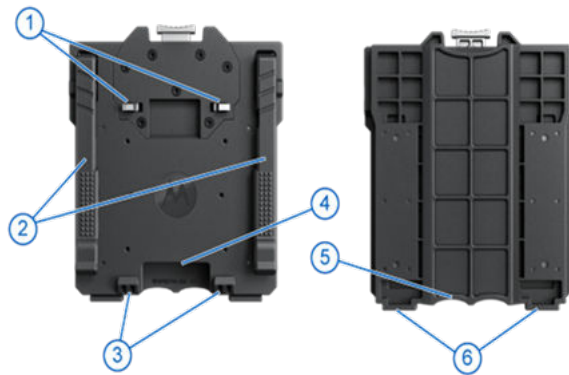
Table 1: Center Chest Mount Items

Item	Description
1	Brackets
2	Levers on both sides
3	Anchor tabs
4	Over-shirt bracket
5	Under-shirt bracket
6	Camera slots

Procedure:

1. To separate the under-shirt bracket from the over-shirt bracket, perform the following actions:

   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. 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 against the under-shirt bracket, with your shirt between them.

   These 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.

2.2.2
Mounting the Locking Molle Mount

The Locking Molle Mount, when locked, is secure and cannot detach from the vest unless you slide the locking pins in a downward motion.

Prerequisites: Install the mount on the vest before you connect the camera to the mount.

Figure 3: Locking Molle Mount

Procedure:

1 Determine which two sewn seams on the Molle vest you want to mount the camera to.

2 On the back of the mount, find the tabs on the side of the spring-loaded pin Molle-Lok™ attachments.

3 On each Molle-Lok attachment, grab and squeeze the tabs at the bottom of the attachment until the spring-loaded pin latch releases.

4 Slide the two Molle-Lok attachments connected to the mount over and through the sewn seams on the vest.

5 Align the Molle-Lok attachments and connect them to the spring-loaded pin.

6 Align the camera with the two tabs on the bottom of the mount and snap the camera in to the mount.

7 To remove the camera, press the silver bar and pull straight up on the camera and battery.

8 Remove the camera and battery.

2.2.3
Mounting the Shirt Clip Mount

When and where to use:

Figure 4: Shirt Clip Mount

Table 2: Shirt Clip Mount Items

Item	Description
1	Clip
2	Brackets
3	Camera anchor tabs
4	Back
5	Front
6	Shirt clip

Procedure:

1 To attach the camera to the front of the mount before clipping on the shirt, perform the following actions.

   a Set the camera in the anchor tabs.

   b Press it into the brackets at the top of the mount.

2 Rotate the clip so that the camera is in the vertical position.

3 Press the clip to open it and clip it to your shirt.

4 Press the silver bar on top to release the camera.

2.2.4
Mounting the Jacket Clip Mount

The Jacket Clip Mount is one piece with a clip on the back that rotates so that the camera remains upright in a vertical position. The jacket clip is the same as the shirt clip, just a heavier version, with a stronger, larger clip, that clips on jackets, vests, coats, and over zippers.

When and where to use:

Figure 5: Jacket Clip Mount

Table 3: Jacket Clip Mount Items

Item	Description
1	Front
2	Back
3	Brackets
4	Camera anchor tabs
5	Clip on back of mount
6	Jacket clip

Procedure:

1 Attach the camera to the front of the mount before clipping on the jacket.

2 Set the camera in the anchor tabs.

3 Press the camera into the brackets at the top of the mount.

4 Rotate the clip so that the camera is in the vertical position.

5 Press the clip to open it.

6 Clip the mount to your jacket.

7 Press the silver bar on top to release the camera.

Mounting the Heavy Jacket Magnetic Mount

The Heavy Jacket Magnetic Mount provides an option to wear the camera on heavier materials, such as a jacket or other outerwear.

When and where to use:

Figure 6: Heavy Jacket Magnetic Mount

Procedure:

1 Perform the following actions to 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 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.

> **NOTE:** 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 against the under-shirt bracket, with your shirt between them.

The anchor slots snap together forcefully.

> **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.

2.2.6

Mounting the Belt/Strap Mount

The Belt/Strap Mount gives you the option to mount the camera to a belt or strap on your uniform.

Prerequisites: Install the mount before you connect the camera to the mount.

Figure 7: Belt/Strap Mount

Procedure:

1 Determine the belt or strap you want to mount the camera to.

> **NOTE:** The TEK-LOK™ attachments can be adjusted to fit the width of your belt/strap width.

2 On the top of the TEK-LOK attachment, throw over the secondary lock tab.

3 Press both release tabs toward each other and open the TEK-LOK attachment.

4 Place the TEK-LOK attachment over the top of your belt.

5 Press and squeeze the TEK-LOK attachment closed.

> **NOTE:** The TEK-LOK will click into place when it is secure.

6 Throw over the secondary lock tab.

7 Align the camera with the two tabs on the bottom of the mount and snap the camera in to the mount.

8 To remove the camera, press the silver bar and pull straight up on the camera and battery.

9 Remove the camera and battery.

2.3
Replacing the V700 Battery

The power source of the V700 is a removable battery that is easy to replace and allows continuous operation with minimal disruption. You can remove the V700 battery and charge it separately from the camera.

> **NOTICE:** A charged spare battery ensures that you always have a source of power ready to use without requiring the camera to remain in a charging dock or transfer station while the battery is charging.

Figure 8: Replacing the V700 Battery

Procedure:

1 Power off the camera ().

2 Slide the silver latch on the back of the camera to the left.

3 Pull straight down on the battery. Do not lift out.

4 To replace the battery, slide it into the tracks and push it in until it clicks.

2.4
Battery Charge

A full charge in the Transfer Station or WiFi Base can take up to six hours. The battery life depends on the device configuration and LTE service.

Dock the camera with the battery or just the standalone battery in the WiFi Base, USB Base, or Transfer Station II.

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

Motorola Solutions recommends using the V700 USB Base plugged into an outlet or the transfer station inside your agency when fully charging the battery.

Charging a battery in a vehicle that is not running can impact the vehicle battery. For the best battery life and fastest charging times, you should charge the V700 in a cool environment.

IMPORTANT: If the ambient temperature gets too hot (40° C / 104° F), the battery may stop charging. You must not leave the camera and battery in a hot car.

2.4.1
Camera Charging Display

While the V700 is charging, the event count remains on the screen.

When the camera is fully charged:

- The display shows `CHARGE COMPLETE` once, then returns to the Home screen

- The display shows 100% and a fully-filled Battery Charge icon on the Home screen

- The green LED displays a steady light

- Two tones sound

2.4.2
Camera Shutting Down Due to Low Battery

If a low battery error is issued, you should shut down the V700; this can leave two to four minutes of run time before the camera runs out of power. You should switch to your charged backup battery.

2.5
Assigning a Configuration and Checking Out

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

NOTE: Before using the camera for the first time, fully charge the battery and assign a configuration and officer to the camera. For more information about configuring your V700, see V700 Configuration on page 53.

Procedure:

1 Dock the camera in the Transfer Station II connected to a computer with access to your agency evidence management system.

2 Using your agency evidence management system, perform the following actions:

   a Create and assign a configuration to the docked camera.

   b Assign an officer to the docked camera.

   IMPORTANT: If you have the battery with the attached camera docked, ensure that you remove them together. Undocking one without the other can damage your data.

The camera vibrates when the update completes. If automatic configuration updates are enabled, the V700 checks every 10 minutes to see if there is a change to the configuration.

2.6
Associate a V700 with a Recording Group

When you dock your V700 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 V700 or V300 cameras and,

if present, the 4RE or M500 In-Car Video Systems. A recording group is typically associated with a vehicle.

> **NOTE:** Ensure the date/time is set correctly on the M500 before you associate your body-worn camera with the in-car system. If the date/time is incorrect, contact your system administrator.

For more information, see V700 in a Recording Group on page 37.

> **NOTE:** You can pair multiple V700 or V300 cameras with the same WiFi Base.

2.7
Start and Stop Recorded Events

You can use the **Record Start/Stop** button on the front of the camera to start or stop a recorded event. See the table below for the different configurations your agency can set to start or stop a recorded event on the V700.

If your V700 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. For more information, see V700 in a Recording Group on page 37.

> **NOTE:** Your agency configures how your V700 starts and stops recorded events in your agency evidence management system.

Table 4: Start/Stop recorded event options

Item	Description
Single Press to start/stop an event	Press and release the **Record Start/Stop** button to start or stop a recorded event.
Start/stop recorded event confirmation	Double press the **Record Start/Stop** button within five seconds to start or stop a recorded event.
Press and hold to start/stop an event	Press and hold the **Record Start/Stop** button for 1 to 5 seconds, depending on your agency configuration, to start or stop a recorded event.

> **NOTICE:** You can start or stop an event from the SmartControl app.

2.7.1
Starting a Recorded Event Manually

You can manually start a recorded event on the V700.

Procedure:

1 On the front of the camera, press the **Record Start/Stop** button.

> **NOTE:** Your agency configures your Record Start/Stop options in your agency evidence management system. See Start and Stop Recorded Events on page 31 for the available configurations.

The display shows `RECORDING`, and the circle in the center blinks to indicate that the camera is recording.

The top and front LEDs illuminate in red to indicate that the camera is actively recording. If the camera is in Covert Mode, the top and front LEDs remain off even while the camera is actively recording.

As the recorded event continues, the display shows the storage indicators updating.

2.7.2
Stopping a Recorded Event Manually

You can manually stop a recorded event on the V700.

Procedure:

1 On the front of the camera, press the **Record Start/Stop** button.

2 Press the **Record Start/Stop** button again within five seconds.

> **NOTE:** If the record stop confirmation is not enabled, you only need to press the record button once to stop an event.

> **IMPORTANT:** The V700 can be configured in your agency evidence management system to not allow an event to stop manually. If you cannot stop the event manually when you press the **Record** button, two low tones sound with vibration, depending on your alert notification selections, and the display reads IGNORED for three seconds.

> **NOTE:** Your agency configures your Record Start/Stop options in your agency evidence management system. See Start and Stop Recorded Events on page 31 for the available configurations.

On the camera, the display and 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. For more information, see Categorizing a Recorded Event on page 32.

2.7.3
Categorizing a Recorded Event

Event categorization is set up in the V700 configuration of your agency evidence management system, in which your agency sets the categories.

Procedure:

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

   If the camera is not in Covert Mode, the **Display Backlight** turns on and the display shows the default category on the top.

   If tagging is not required, the prompt times-out after 30 seconds.

2 Press and release the **Display Backlight** button as many times as needed to move through the list of event categories.

3 Press the top **Function** button when the event category you want to select appears on the display.

The display shows `Saved` in small text, including the event category in large text. The camera vibrates when the category is saved. Depending on your alert configuration, one long tone sounds with a vibration.

If another recorded event starts either 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. The event can be categorized later in your agency evidence management system.

2.7.3.1
Event Categorization on the Camera in a Recording Group

If your V700 is a member of a recording group that connects with a 4RE or M500 DVR, the camera can automatically accept an event category from the 4RE or M500 DVR group member as its own category. Any category selected directly on the V700 overrides the 4RE or M500 category.

If your V700 is connected to the SmartControl smartphone app, you can categorize an event using SmartControl and add secondary event tags. Any category selected on SmartControl overrides a 4RE or M500 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. For more information, see SmartControl for Mobile on page 73.

2.7.4
Work in Covert Mode

In Covert Mode, the V700 makes no sound and all LED lights turn off. Depending on your configuration, the display backlight can light up on demand. Additionally, depending on the configured alert notifications, the camera can vibrate in Covert Mode. All V700 functions operate the same way in Covert Mode as they do in normal mode.

NOTE: Whether Covert Mode is available, it is configurable by your administrator.

2.7.4.1
Entering Covert Mode

Procedure:

> To transition to Covert Mode, press and hold the **Function** button for five seconds.

> You can enter Covert Mode using the SmartControl smartphone app. For more information, see Streaming Live Video on page 84.)

The camera vibrates and displays in Covert Mode. The display changes from black on white to gray on black during Covert Mode. All content on the display is the same in Covert Mode as in normal mode.

2.7.4.2
Exiting Covert Mode

Procedure:

> To exit Covert Mode, press and hold the **Function** button for five seconds.

> You can enter Covert Mode using the SmartControl smartphone app.

The camera plays a tone. The LEDs turn on and the **Display Backlight** LED remains on.

2.7.4.3
Covert Mode Alert

When the V700 is entering or exiting Covert Mode and an error condition occurs, the camera alerts you by vibrating or playing tones.

The following scenarios can occur:

- The vibration and tones stop if you do not acknowledge the error and go into Covert Mode. The exception is that the camera continues to vibrate or tones sound if the alert is a critical alert for evidence capture

- When Covert Mode ends, the camera starts to vibrate or play tones because the error was not acknowledged. After the alert is acknowledged, the vibration and tones stop

- If you acknowledge the error before accessing Covert Mode, the camera goes into Covert Mode. When you exit Covert Mode, no notifications are presented

2.7.5
Bookmark/Snapshot

If enabled by your administrator, you can create a bookmark and/or snapshot while the V700 is recording an event.

Creating a bookmark allows you to save a specific moment during a recorded event, and creating a snapshot allows you to create and save an image of a specific moment during a recorded event.

NOTE: Your administrator must enable either or both features in your agency evidence management system.

Press and release the **Function** button to create a bookmark or snapshot during a recorded event. Depending on your agency configuration, one of the following screens will appear on your V700:

Table 5: Bookmark/Snapshot Screens

Icon	Description
Saved	Bookmark only
Saved	Snapshot only
+ Saved	Both Bookmark and Snapshot

2.8
Muting the V700

A configuration setting in your agency evidence management system controls whether you can mute your V700 during a recorded event.

> **NOTE:** Depending on your agency preference, you can have either Continuous Mute (Continuous Mute on page 35) or Momentary Mute (Muting Audio Momentarily on page 35).

2.8.1
Continuous Mute

You can mute your V700 during an event by pressing and holding the **Function** button.

The camera can be configured to alert you while it is muted. Your administrator configures the alert type under officer device preferences.

2.8.1.1
Enabling Continuous Mute

Procedure:

If enabled by your administrator, you can press and hold the **Function** button for two seconds to mute the microphone during an active recorded event.

While muted, the camera displays `MUTE ON`.

2.8.1.2
Disabling Continuous Mute

Procedure:

1 To disable continuous mute, press and hold the **Function** button for two seconds.

The camera displays `MUTE OFF`.
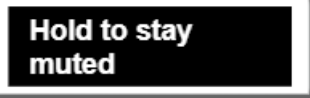
> **NOTE:** The camera can be configured to unmute itself. Your administrator configures a maximum duration for muting. When this configuration is enabled by your administrator, the camera unmutes itself after the configured number of minutes. The camera creates a beep/vibe notification 5 seconds before it unmutes and again when the device unmutes itself.

2.8.2
Muting Audio Momentarily

Procedure:

1 Press and hold the **Display Backlight** button to briefly mute the audio.

> **NOTE:** Your administrator must enable the configuration setting to allow muting.

2 Release the **Display Backlight** button to unmute the audio.

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

Audio resumes after you release the button.

2.9
Event Upload

The V700 can upload directly to your agency evidence management system.

You can upload recorded events from your V700 while it is docked in the following ways:

- Transfer Station II
  Events upload automatically from V700 in the Transfer Station II

- WiFi Base
  Events upload automatically from V700 if the WiFi Base is connected to your agency evidence management system

  > ✎ **NOTE:** Motorola Solutions 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.

  Your agency must configure the camera to upload events to your agency evidence management system from the WiFi Base.

- USB Base
  You can upload recorded events automatically depending on the settings in your agency evidence management system. While the camera is uploading from a USB Base, you can monitor its upload progress on the camera or in your agency evidence management system.

  > ✎ **NOTE:** Events that you have categorized as critical events are always uploaded first.

2.9.1
Monitor Event Uploading

You can monitor the upload progress in your agency evidence management system.

2.9.1.1
Record-After-the-Fact (RATF) Events

You can use your agency evidence management system to define and request a Record-After-the-Fact® (RATF) event from a docked camera configured with RATF enabled. The V700 generates the RATF event and uploads it while docked.

For more information, see .

2.9.1.2
Clearing Video Out of Camera Storage

Once the V700 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.

Understanding Tricolor LEDs on Each Transfer Station II Slot

The Transfer Station II has a tricolor LED for each slot that provides information about what is happening in that slot (1). These LED lights (1) let you know the upload progress, charging status, and any fault conditions.

Item	Description
1	Network activity indicator
2	Charge indicator

Table 6: Tricolor LEDs on Transfer Station II

Charging			Network Linking		
Color	**Status**	**Description**	**Color**	**Status**	**Description**
Green	Solid	Battery charged	Green	Solid	Connected to Ether-net
Green	Flashing	Battery charging	Green	Flashing	Data uploading
Red	Solid	Error condition	Red	Solid	Error condition
Amber	Solid	Camera docked	Amber	Off	Backend not connect-ed from transfer station link

2.10
V700 in a Recording Group

When you dock your V700 in a WiFi Base, the camera pairs with the base. This pairing lets the camera associate with other V700 cameras as a local recording group.

Recording group members include the following:

- V700 or V300 cameras
- Smart Power Switch
- 4RE and M500 DVRs

2.10.1
Recording Group Overview

The decision to create an event for the group recording is made by each device in the local recording group network.

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 system for viewing and sharing.

37

2.10.2
Recording Group Members

A recording group consists of a network of devices communicating with each other whenever one of them changes its recording status. Although a recording group is typically linked to a vehicle, the V700 can form its own recording group.

A local recording group can include the following elements:

- Up to eight V700 or V300 cameras

- One WiFi Base

- 4RE DVR, firmware version 4.0.7 or later (optional)

- M500 DVR, firmware version 1.0.5.43 or later (optional)

- A Smart Power Switch

V700 Camera Functions

As part of the local recording group network, the V700:

- Pairs with the WiFi Base
  After docking 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.

- Connects to 4RE DVR firmware version of 4.0.7 or later (optional)

- Connects to M500 DVR firmware version 1.0.5.43 or later

- Connects to the Smart Power Switch

- The Smart Power Switch functions as the central connection point for a recording group
  Through the Smart Power Switch, the devices connect together to form a network, letting the 4RE or M500 DVR and/or V700 group members communicate with each other.

- Intelligently manages power within the local recording group network
  The Smart Power Switch 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.

- Initiates group recordings
  The V700 notifies the WiFi Base that it started a recorded event. The WiFi Base then uses the group network to notify the other group members that V700, 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 WiFi Base is notified by other group members when they start or stop a group recording. The base notifies the cameras and a camera can start or stop its own recorded event with the recording group.

  > **NOTICE:** If the 4RE DVR, M500 DVR, V700, or V300 are members of the same recording group, the 4RE or M500 DVR can initiate group event starts, stops, and categorization. Also, the V700 or V300 can join in on the group actions depending on your agency evidence management system configuration.

  > **IMPORTANT:** If a V700 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. The V700 provides a wireless access point (hotspot) for the SmartControl smartphone application. For information about connecting the SmartControl application, see .

Smart Power Switch

As part of the local recording group network, the Smart Power Switch functions as the local network DHCP server for the local recording group network and other devices connected to it, such as wireless radio.

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

> **NOTE:** M500 In-Car Video Systems with firmware version 1.1.0 or later automatically have the Integrated Smart Power Switch functionality enabled. External Smart Power Switch hardware is no longer required.

4RE and M500 DVRs

> **NOTE:** The 4RE DVR must be at firmware version 4.0.7 or later to participate in a recording group. The M500 DVR must be at firmware version 1.0.5.43 or later to participate in a recording group.

If your agency uses the 4RE or M500 DVR as part of a local recording group network, the 4RE or M500 DVR:

*   Initiates group recordings
    4RE and M500 uses the group event network to inform the other group members when it starts an event. The other members can join by starting their own recorded events.

*   Stops group recordings
    Only the 4RE or M500 DVR can stop all recorded events that are part of the group event at the same time

*   Responds to group recording initiation by other group members
    Through the group event network, the 4RE or M500 DVR is informed by other group members when they start a recorded event. The 4RE or M500 can then join the group by starting its own recorded event.

*   Passes on its event categorization to other members' recorded events in the group recording
    The category you assign to a recorded event on the 4RE or M500 DVR is passed to other group members' recorded events. The other group members can choose to categorize their own recorded events, overriding any category passed to them by the 4RE or M500 DVR.

*   Shares Covert Mode entry and exit with other group members
    Other members can choose to enter or exit Covert Mode, and there can only be one 4RE or M500 DVR in a recording group.

    For more information about the 4RE or M500 DVR and group recordings, see the *4RE DVR In-Car Video User Guide* or *M500 In-Car Video System User Guide*.

    > **IMPORTANT:** The 4RE or M500 DVR is not required to form a recording group.

Other Devices in a Recording Group

Other devices in a recording group can include the following:

Radio
    If present in the system, the wireless radio connects to the Smart Power Switch.

    The 4RE or M500 DVR in addition to the V700 can use the radio to interact with your agency evidence management system through the Smart Power Switch, an agency network access point. The connection between the wireless radio and the agency network is independent of the local recording group network.

MDC or Laptop
    The MDC (mobile data computer) or other laptop computer connects to the Smart Power Switch.

The computer only connects to the system through the Smart Power Switch; 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 Smart Power Switch.

2.10.3
Group Events

The collaboration of V700 and V300 cameras and the 4RE and M500 In-Car Video Systems creates a group event. Each device in a recording group creates individual recorded events of the same incident; this shows the individual event from different perspectives to create a more comprehensive view of an incident.

V700 Camera Behavior

When a group event is uploaded to your agency evidence management system, the individual events are automatically linked together.

The following camera behavior scenarios can occur when recording a group event:

Manually starting a recording group event after it automatically starts one
You can press the **Record Start/Stop** button within 10 seconds of the automatic start. The camera may ask you to confirm that you want to stop the recorded event with your **Record Start/Stop** button press.
However, if you do not press the **Record Start/Stop** button again within five seconds, the camera continues recording the event as part of the group event. The camera stops recording the event if you press the button a second time within five seconds.

The camera that initiated the group event goes out-of-range during the group event
All the devices in the recording group keep recording an event until the 4RE or M500 DVR stops the group event or each member stops its own event, each according to its configuration. The initiating device moving out-of-range does not affect the other devices' ability to start, stop, or categorize their own events.

The camera goes out-of-range but keeps recording the event until it is manually stopped
A camera that goes out-of-range does not affect its ability to start, stop, and categorize its own events.

The group event is stopped while the camera that is part of that group event is out-of-range
The out-of-range camera keeps recording the event until it is manually stopped or moves back into range of the recording group network.
When the camera that is still recording an event moves back into range, it is informed that its associated group has stopped the group event. It can then stop its own event according to its configuration.

2.11
Pre-Event and Record-After-the-Fact (RATF)

You may want to capture part of an event that was not recorded as part of the original recorded event. Due to the fact that the V700 continuously records, you can capture that part of the event.

Pre-Event Capture lets you add up to two minutes of video before a recorded event, while Record-After-the-Fact® (RATF) lets you continuously capture and save video.

When either Pre-Event or RATF are enabled, the camera continuously captures and saves video when it is powered on. You enable both in your agency evidence management system. For more information, see your agency evidence management system documentation.

2.11.1
Pre-Event Capture

Pre-Event supported values are none, 15 seconds, 30 seconds, 1 minute, and 2 minutes. You can configure Pre-Event to include audio. You can have audio for the event but not for Pre-Event. The evidence is always written to storage.

You can start a recorded event at 2:15 PM and stop it at 2:35 PM. With a Pre-Event Capture time configured for one minute, the recorded event includes video recorded from 2:14 PM to 2:35 PM.

> **NOTE:** Pre-Event only works if your camera is continuously recording.

2.11.1.1
Audio

Audio is not included with Pre-Event video unless your agency enables the Force Microphone On feature. Typically, the V700 only begins to record audio when you start a recorded event.

For more information, see .

2.11.2
Record-After-the-Fact (RATF)

Enabling Record-After-the-Fact® (RATF) lets you continuously capture and save video you can use to generate an RATF event. You can enable RATF in your agency evidence management system.

The V700 works as a DVR and camera combination to record events. When you start and stop a recording either manually or automatically, the camera protects the segment between the recording start and stop as the recorded event.

2.11.2.1
Record-After-the-Fact (RATF) Event Generation

Any time the V700 is docked in the WiFi Base, and there is network connectivity to your agency evidence management system, V700 can generate a Record-After-the-Fact® (RATF).

You should use your agency evidence management system to send a manual request to the camera to generate and retrieve a RATF event.

For more information on generating a RATF from the V700, see your agency evidence management system documentation.

2.11.2.2
Storage

When you enable RATF, the camera continuously overwrites the oldest unprotected or nonrecorded event area in storage with any newly captured video or recorded events.

The overwrite process continues until all unprotected video is overwritten with recorded events or RATF. After overwriting, you must upload recorded events to your agency evidence management system to free up storage space before you can continue to use the camera.

2.11.2.3
Audio

Audio is not typically included in the saved video when RATF is enabled.

The V700 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.

2.11.3
Force Microphone On

The Force Microphone On feature lets you capture audio whenever V700 is capturing and saving videos. Audio is not typically included in pre-event video or Record-After-the-Fact® (RATF) events.

Your administrator configures the Force Microphone On feature in your agency evidence management system configuration settings.

2.12
APX Integration with V700

Motorola Solutions APX two-way radios and V700 cameras now work together to capture video evidence. The V700 camera connects through Bluetooth to an APX radio, and is triggered to start recording whenever the radio enters emergency mode. Dispatch can also trigger emergency mode remotely.

2.12.1
Pairing the V700 with an APX Radio

If group event is enabled and there are other cameras in the same group, the Emergency Mode can start a group event. The event does not stop automatically when the radio leaves Emergency Mode. The event must be stopped manually or stopped by an in-car video system.

Do not interrupt the pairing process once it starts; this can cause difficulty in pairing in the future.

The following APX radios are integrated with the V700:

* Two-Way RADIO (non-HAZLOC models only)
* APX NEXT, APX NEXT XE
  (Requires 2021.4 release)

The following radios require the 2021.2 firmware release:

* APX 8000, APX 8000XE, models 2.5 and 3.5
* APX 7000, APX 7000XE, models 2.5 and 3.5
* APX 8000, APX 8000XE, models 2.5 and 3.5
* APX 6000, 6000XE, models 2.5 and 3.5
* APX 4000, models 2.5 and 3.5

> **IMPORTANT:** IP address 192.168.97.x is reserved for APX or V700 integration.

2.12.2
Emergency Record Trigger

V700 and APX emergency pairing is configured in your agency evidence management system for V700.

The emergency trigger is sent whenever the radio enters an emergency and the V700 automatically starts recording. The V700 continues to record until the **Record Stop/Start** button on the camera is pressed or a group recording is stopped.

A secure Bluetooth link connects the camera and the radio. In a group recording situation, all cameras are started simultaneously. An officer can disconnect from the radio through the radio Bluetooth menu.

If a camera is connecting to a radio that it was previously paired to, the connection happens automatically. If the camera is already paired to a radio and the officer wants to pair it to a different radio, the officer has to restart the discovery process.

If either the V700 or radio is rebooted, the rebooted device has to re-establish the connection. If the other device is out-of-range, the user must connect them manually using the radio screen.

When the radio triggers emergency mode, the V700 logs it in metadata. It includes the reason reported from the radio for entering emergency mode. The camera does this even if an event is already in progress.

2.12.3
V700 and APX Radio Pairing Flow

The V700 and the APX Radio have to connect to use the emergency record trigger.

You should perform the connection when first checking out the camera at the beginning of your shift. Pairing is only required once to enable the emergency recording trigger. The radio user has to perform the pairing process; this ensures that the recording start on emergency trigger occurs without delay.

The V700 can pair with the radio, SmartControl, the smart phone app, and Holster Aware. The pairing cannot be done in parallel. You must first pair with one device, then the other devices.

2.12.3.1
Pairing the APX Radio with V700

IMPORTANT: The radio runs a DHCP server and assigns an IP to the camera. The ports used for the communication are fixed.

When the connection is complete, the camera shows the device name.

Procedure:

1 Select the **Bluetooth** menu on the radio.

2 Select **Search Devices** to find the camera.
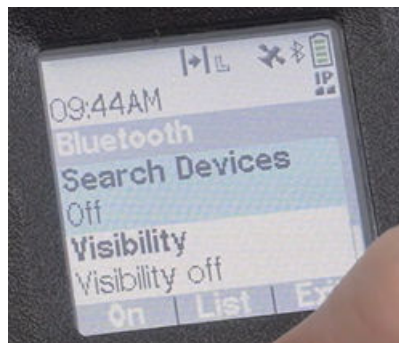
3 Search on the radio until the device name of the camera appears.
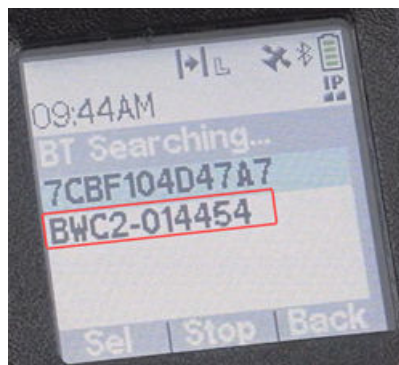
4 Compare the pin numbers on the radio and camera to ensure they match.

The camera presents the pin to the screen. The same pin is presented on the radio screen and the officer compares the pins and confirms it on the radio screen.

5 Press **OK** on the radio to accept the matching pins.

6 Press the **orange** button to initiate an emergency trigger or dispatch can initiate the emergency trigger and start the camera recording.

If the radio is already in emergency mode when they pair, the camera starts recording immediately.

When the operator presses the orange button on the radio, the camera interacts immediately with the radio and begins recording. The V700 also starts emergency recording on notification from dispatch.

2.12.3.2
Re-pair V700 and APX Radio Connection

If you need to pair your V700 to the APX Radio again, before pressing both buttons on the V700, you must go into the APX Radio settings and delete the V700 from the radio; this ensures a successful connection between the devices.

2.12.3.3
Out-of-Range

If a camera moves out-of-range from the radio, the radio tries to reconnect for approximately eight minutes. If the camera stays out-of-range longer than eight minutes, you have to reconnect the two manually by using the radio screen.

2.12.3.4
No Connection in the Field

If a radio triggers an emergency and the V700 is not paired with the radio, you need to go through the pairing process to connect them. See Pairing the APX Radio with V700 on page 43 for more information.

Once a V700 is paired with an APX Radio, when either the radio or the camera reboots, the rebooted device tries to re-establish the connection. If the camera is not in range at the time of this re-connection attempt, you need to go into the APX Radio menu and manually start the connection from there.

2.13
Holster Aware

Yardarm® Holster Aware detects when a weapon is removed from or inserted into a holster. It wirelessly activates a recording on the V700 when a holster sensor is paired with the V700.

You can have a holster sensor and APX Radio connected at the same time.

You can have a holster sensor, APX Radio, and SmartControl smart phone app, connected at the same time.

After you check out a camera and pair with a holster, the pairing information is assigned to your ID. It is stored in the officer preferences. At the end of the shift it is uploaded to your agency evidence management system to be used on the next shift. The next time you checkout, your pairing information is sent to the camera as part of checkout.

2.13.1
Connecting Yardarm Holster Aware

Procedure:

1 Connect the power supply to the sensor to pair the sensor with a V700.

   You have one minute to pair the sensor and camera.

2 Press the **Function** and **Display Backlight** buttons for five seconds to enter the pairing menu.
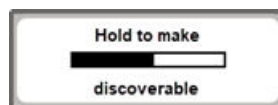
   The discover process cycles through SmartControl, APX Radio, then Firearm.
   The discover process cycles through APX Radio then Firearm.

3 Press the **Display Backlight** button to navigate through the menu to **Firearm**.

4 Press the **Function** button to select a **Firearm** when the **Firearm** screen appears.

The camera starts searching for nearby sensors, showing a list of sensors.

> **NOTE:** Connectivity issues can occur if you are in an area with a lot of wireless noise. Move away from that area and try to connect again if you are having trouble connecting.

5 Press the **Display Backlight** button to cycle through the sensor serial numbers.

6 Press the **Function** button to select the sensor serial number of the sensor you want to pair with.

The camera and sensor are paired when the **Connected** screen appears.

You can check the connection status in the **Info Sequence**. The Holster icon means that you are paired.

7 Disconnect the sensor from the power supply.

> **NOTE:** When connected to a power supply, the sensor remains in pairing mode for one minute. After one minute, the sensor must be disconnected and reconnected to the power supply re-enabling pairing mode.

2.13.2
Holster Aware Status

From the V700 menu for the firearm sensor, you can put the sensor into Safety Mode, which allows you to remove the firearm from the holster and not start a recording.

Procedure:

1 Navigate to the **Main Menu** screen.
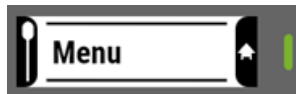
2 Press the **Display Backlight** button to search for sensors.
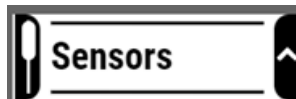
3 Press the **Function** button to enter the **Sensor** submenu.

4 Press the **Display Backlight** button to cycle to Safety Mode.

5 Press the **Function** button to put Holster Aware in Safety Mode On/Off.

The V700 notifies you when the sensor battery level is low or critical. The notification repeats for every one percent drop in battery level until it reaches critical. The notifications remain on the screen for four seconds. When the camera reaches the critical battery level, the notification for it remains until you

acknowledge it and reoccurs every one percent drop. The warning stops when the battery is charged or dead. No notification appears for a normal battery level.

For more information on the different sensor battery levels, see Sensor Battery Levels on page 47.

2.13.3
Sensor Battery Levels

Table 7: Sensor Battery Levels

Percentage	Status	Notifications
Above 25%	Normal	No notifications are sent.
25-21%	Low	Notification is sent on the UI with vibe or tone feedback or both, depending on your configuration. It times out after five seconds or when you acknowledge it with a button press. It does not persist throughout the recording. Notifications are sent every 1% at 25% and below.
At or below 20%	Critical	A critical battery notification that persists on the screen until you press a button to acknowledge it. It also clears if a recording is started until the recording and tagging are complete.

2.14
V700 Docking Overview

You can dock the V700 in the following bases:

- WiFi Base (Dock the V700 in a WiFi Base on page 48)
- Transfer Station II (Dock the V700 in a Transfer Station II on page 49)
- USB Base (USB Dock and Upload on page 50)

While docked, you can do the following:

- Charge the battery
- Upgrade firmware for the V700 from Transfer Station II and WiFi Base
- Upload recorded events from Transfer Station II
- Upload recorded events from the WiFi Base
- Upload recorded events from the USB Base
- Define a Record-After-the-Fact® (RATF) event
- Request a state capture from Transfer Station II for troubleshooting

> **NOTE:** The camera and battery can only dock in one direction in the bases. Do not remove the camera from the battery while it is charging. You can damage data or evidence on the camera.

The camera can be paired with the WiFi Base to associate with other V300 or V700 cameras and the in-car video system to form a recording group (V700 in a Recording Group on page 37).

You can dock the V700 with the battery or dock the stand-alone battery in any available bases. You can use the WiFi Base or USB Base for incidental charging during your shift.

> **IMPORTANT:** Charging in a WiFi Base without the vehicle running can impact the vehicle battery and can slow charging in warmer temperatures.

The battery may stop charging if the ambient temperature gets too hot (40° C / 104° F).

> **NOTE:** The V700 must interact with your agency evidence management system to be customized for your agency.

2.14.1
Dock the V700 in a WiFi Base

You can dock the V700 in one direction only. The camera pairs with the WiFi Base and is associated with any other V700 that is paired with the same WiFi Base.

When you dock the camera and battery in a WiFi Base that is connected to your agency evidence management system, the camera communicates to your agency evidence management system that it has recorded events to upload and the following occurs:

> **NOTE:** The camera must be configured to upload events directly to your agency evidence management system from the WiFi Base. For more information, see your agency evidence management system documentation.

- Recorded events are uploaded to your agency evidence management system

- Your agency evidence management system sends commands and requests to the camera as applicable

  > **NOTE:** Recorded events that have been uploaded are marked as upload confirmed. These events are immediately unprotected, making the storage space available to be reused.

- Stage a firmware upgrade
  - After staging, the upgrade is immediately applied to the camera

- The camera checks every 30 minutes for a firmware upgrade
  The camera is ready for operation when you undock it from the WiFi Base.

⚠ **IMPORTANT:** IP address 192.168.99.x is reserved for USB and WiFi Bases.

2.14.2
Dock the V700 in a Transfer Station II

⚠ **IMPORTANT:** You must first set up and configure the Transfer Station II. For more information, see the *Transfer Station II Quick Start User Guide*.

When you dock the V700 and battery in a Transfer Station II, the following occurs:

- The V700 stand-alone battery charges
- The V700 time and date synchronize with your agency evidence management system
- The V700 checks every 30 minutes for a firmware upgrade

⚠ **CAUTION:** The V700 sets its internal date and time from your agency evidence management system. If the computer date and time is incorrect, the camera is set incorrectly, and your video evidence is marked with the incorrect date and time.

Figure 9: Transfer Station II

Item	Description
1	Stand alone battery
2	V700 camera and battery
3	Slot ID
4	Slot ID
5	Individual slot power LEDs

Item	Description
6	Transfer Station II power LEDs

> **NOTE:** Slot ID stickers are included with Transfer Station II, if you choose to use them.

The camera communicates to your agency evidence management system that it has recorded events ready to upload. The Transfer Station II can upload from eight cameras simultaneously.

While docked, the camera performs the following actions:

- Marks any imported recorded events as import confirmed
  Events confirmed as imported are immediately unprotected. This makes the storage space available to be reused.

- Updates the configuration

- Stages a firmware upgrade
  After staging, the upgrade is immediately applied to the camera.

- The WiFi Base firmware can be downloaded to the V700 while docked in the Transfer Station II

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

2.14.3
Periodic Configuration Updates

If you have automatic updates enabled in your agency evidence management system, when docked, the V700 queries for configuration updates every 10 minutes. If it finds a change, it updates the configuration.

2.15
USB Dock and Upload

You can dock your V700 in the USB Base to establish a connection to your agency evidence management system. The V700 can upload events when docked in the USB Base.

Docking the V700 in the USB Base enables the following actions:

- Retrieves battery charging status

USB upload requires you to check out the V700 from a Transfer Station II to provision it with the agency; this enables you to upload from the USB Base in the field.

2.15.1
Upgrading the V700 Firmware

You can push new firmware upgrades to the V700 while it is docked in the Transfer Station II, WiFi Base, or USB Base, depending on your configuration.

Procedure:

1 Dock the camera in a WiFi Base, USB Base, or Transfer Station II with access to your agency evidence management system.

   If an upgrade is needed, your agency evidence management system automatically notices and pushes the upgrade.

   NOTE: V700 checks your agency evidence management system every 30 minutes for firmware upgrades.

2 Keep the camera docked while upgrading.

   WARNING: Do not remove the camera from the dock while its new firmware is being applied. Removing the camera from the dock during the upgrade can cause the camera to malfunction. The camera cannot perform any other function while upgrading its firmware, including uploading a video.

While the upgrade is being staged on the camera, the display shows `DO NOT INTERRUPT` under the upgrade bar, including `Do not undock` or `Do not disturb` above the bar.

When the upgrade is finished applying, depending on your alert notification selections, the camera sounds the ready alert. You can safely undock the camera.

Chapter 3

V700 Overview

The Motorola Solutions V700 Body-Worn Camera serves as a Digital Video Recorder (DVR) to capture, process, and store video and audio evidence. You must connect the camera to the agency evidence management system to configure it and upload video for evidence management.

The V700 works with other V300 or V700 cameras and the 4RE or M500 DVRs, if present, to form a recording group. For more information, see Recording Group Overview on page 37.

If enabled, the V700 can live stream video and report location over LTE to CommandCentral Aware. For more information, see LTE Wireless Service on page 86.

> **NOTE:** V300 and V700 cameras cannot pair as part of a group with the VISTA cameras in the same car. You can combine the videos of V300, V700, VISTA Wi-Fi, and VISTA XLT video captures for the same event in your agency evidence management system.

Camera Components

The following are the components of the V700:

- Dual microphones (Microphone on page 58)
- Display screen (V700 Display on page 54)
- The camera features the following buttons:
    - **Function** (top) (Function Button on page 57)
    - **Display Backlight** button (side) (Display Backlight Button on page 57)
    - **Record Start/Stop** (front) (Record Start/Stop Button on page 58)
    - **Power** (bottom) (Power Button on page 58)

    > **NOTE:** For more information, see V700 Buttons on page 56.

- Top **Status LED**
- User-replaceable battery (V700 User-Replaceable Battery on page 58)
- Storage capacity for V700 is 24-36 hours at max resolution and frame rate
- Ultra-wide dynamic range image sensor that includes the following functions:
    - Maintains rich colors at all light levels
    - Increases low-light sensitivity
- Images have less digital noise, and low-light performance is improved
- Captures a balanced image

3.1

V700 Key Features

> **NOTE:** This user guide covers the basic use of the V700. If you have a question that is not covered in the user guide, you can contact customer service.

The V700 includes the following features:

- LTE Wireless Service (If enabled)

- A user-replaceable, standalone battery that allows 24-hour shifts with the same camera

- Bluetooth enabled

- Support for the Transfer Station II

- 2 MP image sensor that realizes high picture quality in the visible light regions

- Reduced fisheye effect

- Dual microphones

- Stores 24-36 hours of events with a maximum resolution and 30 frames per second with 128 GB of storage

- Works with other V700 and V300 cameras to form a recording group

- The V700 camera elevates data security with encryption at rest and in transit

- iOS and Android smartphone app

- iOS smart phone SmartControl app

- A rating of IP67 from the International Electrical Commission

> **NOTE:** This means that the camera can survive a drop into fresh water up to 1 meter (3 feet 3 inches) deep and for up to 30 minutes.

Figure 10: V700 Components

3.2
V700 Configuration

You can only create a V700 configuration in the agency evidence management system.

Some of the configuration properties you can set up for the V700 include the following:

- Agency or department name

- Time zone

- Officer name and badge ID

- Device ID

- Network preferences

- Officer preferences for indicators

- Recording group interaction

- Recording preferences

- Power and storage-saving preferences

- Event tags

For more information, see your agency evidence management system documentation.

3.3
V700 Display

The display on the V700 shows icons and messages to indicate the status of the camera. If a message is longer than the screen width, the message scrolls. The display is on the top of the camera.

You can do and see the following on the display:

- The **Home** screen
  When the camera is not recording an event, the default message shown on the display is the storage status for the SD card and battery. For more information, see .

  Figure 11: Home Screen
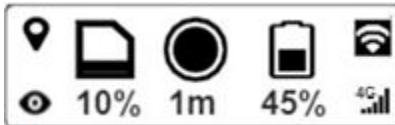
- A default message shows on the display when the camera is in Covert Mode and not recording, and is the inverse of what was on the normal screen

- Shows the SD card storage icon and the percentage of battery remaining
  The V700 battery charge lasts up to 12 hours, depending on your configuration. When recording in HD format, V700 can store about 36 hours of maximum-resolution events or up to about 200 hours at low resolution

  Figure 12: SD Card and Battery
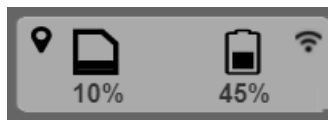
- A blinking circle in the center that indicates the V700 is recording

- You can cycle through the **Info Sequence** by pressing the **Display Backlight** button

- You can cycle through the **Menu** by pressing the **Function** button

- You can cycle through the **Info Sequence**, which takes you back to the starting screen, by pressing the **Function** button
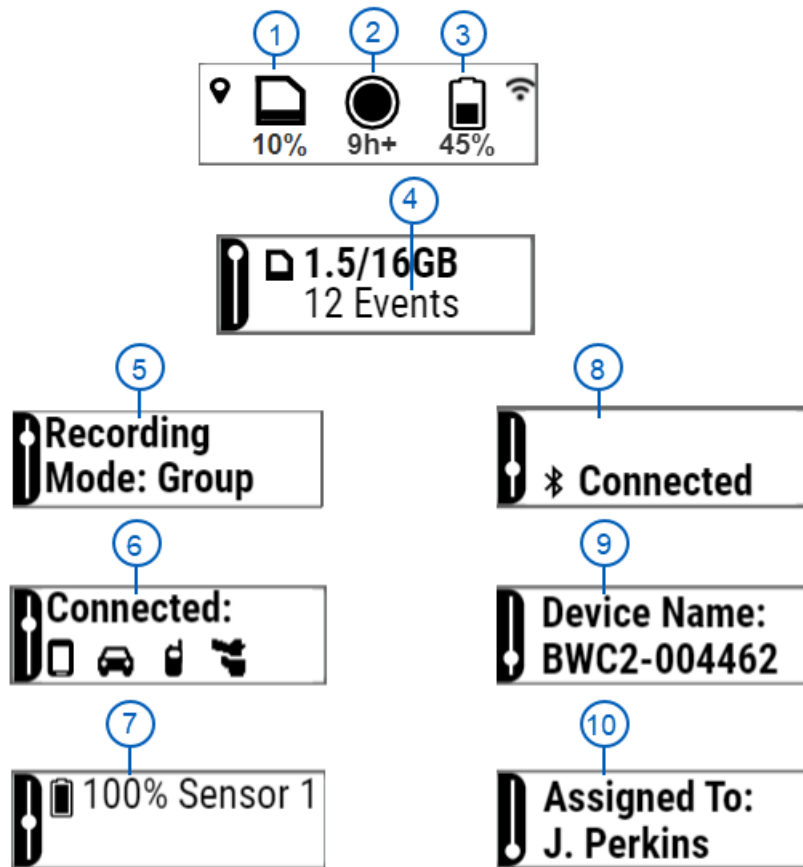
Figure 13: Scrolling through the Info Sequence

Table 8: Info Sequence Items

Item	Description
1	SD Storage
2	Blinking circle indicates camera is recording
3	Battery usage and percentage remaining
4	Number of events on the camera
5	Recording mode as part of a group. If not in a group it says **None**
6	Shows what accessories V700 is connected to: 4RE, M500, APX Radio, and Holster Aware
7	Percent of the Sensor for the Holster Aware that is available
8	Bluetooth connected
9	Device name and ID number
10	Officer assigned to

3.3.1
Home Screen

The **Home** screen on the V700 display can show a variety of icons.
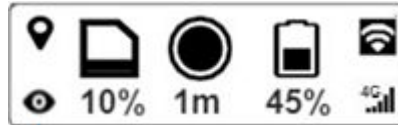
Figure 14: Home Screen

Table 9: Home Screen Icons

Item	Description
	GPS Indicates that the GPS is active.
	Visibility On/Live Streaming Indicates that live streaming to CommandCentral Aware is occurring.
	Storage Indicates the storage capacity of the camera.
	Record The icon flashes to indicate that the camera is actively recording. When not recording the space is blank.
	Battery Indicates the battery level and percentage remaining.
	LTE Indicates LTE signal strength and connection to the agency evidence management system.

3.3.2
Clearing Error Messages

If an error appears on the V700 display, the top LED flashes red to show an error condition.

Procedure:

1   To acknowledge the error, press the **Display Backlight** button.

For more information, see .

The LED may turn solid amber until the error is cleared by the camera.

2   Optional: If it does not clear on its own, reboot the camera.

3.4
V700 Buttons

The V700 has four buttons:

-
-
-

Table 10: V700 Buttons

Item	Description
1	**Function** button
2	**Display Backlight** button
3	**Record Start/Stop** button
4	**Power** button

3.4.1
Function Button

The **Function** button is on the top of the camera and controls the following functions:

- Brings up the **Menu** screen
- Allowing you to select a category tag when tagging an event
- Sensors
- Device Info
- Enabling Covert Mode by pressing and holding the **Function** button

3.4.2
Display Backlight Button

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

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

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

You can use the **Display Backlight** button to perform the following functions:

- Cycling through the **Menu** screens (see User Interface Menu Flow)
- Cycling through the **Info Sequence** screens (see User Interface Info Sequence)

- The **Display Backlight** turns off about 8 seconds after going through all of the info screens

- Short pressing the **Display Backlight** button to cycle through the **Info Sequence**

- Long pressing the **Display Backlight** button to cycle back through the **Info Sequence**

- Toggling event tags when categorizing events

- The **Record** button interrupts the sequence

- Pressing and holding to mute the camera momentarily when recording

3.4.3
Record Start/Stop Button

You can use the **Record Start/Stop** button to start or stop a recorded event and interrupt the info sequence. The **Record Start/Stop** button is on the front of the camera.

For more information, see Start and Stop Recorded Events on page 31.

3.4.4
Power Button

You can use the **Power** button to power the camera both on and off. The **Power** button is on the bottom of the camera battery.

For more information, see Power On and Off on page 19 for more information.

Figure 15: V700 Power On Button

3.5
Microphone

The digital microphone records CD-quality sound. Depending on the configuration applied to the camera, the microphone continuously records audio, which is the default setting.

3.6
V700 User-Replaceable Battery

With the user-replaceable battery, you can extend your shift by charging a replacement battery in the car. The V700 battery recharges to 100% in about four hours. The battery life depends upon the device configuration and LTE service.

- An audio chime plays, and the battery icon blinks when the battery gets close to a critical level.

  NOTE: These alarms depend on your officer preferences.

- Start watching the battery icon when it gets to 2%, and replace your battery once the battery icon gets to 1%.
  After the icon starts blinking, the display shows `LOW BATTERY`, and the camera starts a shutdown procedure.

  NOTE: You should keep an eye on the battery percentage.

You should shut down the camera before pulling the battery out. You can damage data by not shutting down the camera.

Weather can affect the charging of the camera. Extreme hot or cold temperatures can shut down battery charging. The ambient temperature range for charging is 0° C / 32° F to 40° C / 104° F. At the lowest and highest temperatures, charging can stop.

3.6.1
V700 Battery Maintenance

You may need to clean your battery and camera contacts if your camera shows any of the following signs:

- Random rebooting or random power off (Random Reboot or Power Off on page 59)

- The battery percentage on the display abruptly reports 0% battery life remaining (Low Battery Percentage Report on page 59)

- The V700 does not power on or off outside of the dock (Unresponsive Power On or Off on page 59)

3.6.1.1
Random Reboot or Power Off

The V700 powers off or reboots when docked or undocked or when other shock-type events occur.

However, an abrupt reboot will cause the camera to initiate a System Recovery at the beginning of the next boot up. The recovery can take up to 10 minutes, depending on the amount of video recordings stored in the camera. Contamination on the battery or camera contacts can cause these symptoms. You can clean off the contamination by following the Cleaning the Battery and Camera on page 60 procedure.

3.6.1.2
Low Battery Percentage Report

The V700 battery life indicator on the display can show 0% battery life remaining; this typically occurs at power on or when undocked from charging and upload station or base.

On the display, `Low Battery` may show briefly. Contamination on the battery contacts can cause these symptoms. You can clean off the contamination by following the Cleaning the Battery and Camera on page 60 procedure.

3.6.1.3
Unresponsive Power On or Off

The camera powers on when docked, but after it is removed from the dock, the power button may be unresponsive, or you may have to hold it for an extended period of time.

3.6.1.4
Battery and Camera Contamination Causes

A contaminated battery and camera prevents good electrical connection, causing an intermittent connection to the battery. Contamination can encompass a variety of foreign materials, such as accumulated residue from surface disinfectants or sanitizers, dirt, fibers, liquids, food, and other non-conductive material on the contact surfaces.

3.6.1.5
Cleaning the Battery and Camera

Follow this procedure on cleaning the battery and camera contact surfaces.

Procedure:

1 Remove the battery from the camera.

2 Clean the battery and camera contacts with a fine tipped cotton swab and isopropyl alcohol (rubbing alcohol) with at least a 70% alcohol concentration.

> **NOTE:** Never apply the alcohol directly to the battery or camera contacts in an uncontrolled manner.

3 Gently clean all of the contact surfaces to remove debris with the fine tipped cotton swab.

> **IMPORTANT:** Do not use bleach, solvents, or cleaning sprays to clean or disinfect your battery and camera contacts.

3.6.1.6
Repairing the Battery or Camera

Process:

1 If cleaning the battery and camera contacts does not lead to full functionality, isolate the source by changing the battery with a working one.

2 If replacing the battery resolves the issue, re-clean the battery and camera contacts.

3 If re-cleaning does not resolve the issue, contact customer service to replace the battery at 1-800-605-6734.

4 If replacing the battery does not resolve the issue, re-clean the camera contacts.

5 If re-cleaning does not resolve the issue, contact customer service to replace the camera at 1-800-605-6734.

See the Motorola Solutions Technical Notification (MTN), MTN-0134-20-NA issued 09/2020 at https://www.motorolasolutions.com/en_us/support/technical-notifications.html.

3.7
Feedback Indicators

Apart from the display, the V700 can provide feedback on the status using the following:

• Tones

• Vibration

• Red and green LEDs

• Vibration only

• Tone and vibration together

• No tone or vibration

All of the feedback indicators are configurable in the agency evidence management system. You can set up the tones and vibration to alert with the following:

• Tone only

• Tone and vibration together

• No tone or vibration

You can configure the brightness level of the LEDs or set them to adjust automatically depending on the time of day. If you choose this option, they are dimmed from 8:00 pm to 8:00 am.

> **NOTE:** If you place the camera in Covert Mode, there is no tone sound, and the LEDs do not light up.

3.8
Video, Audio, and Subtitle Evidence

The V700 works as a DVR and camera combination to collect evidence in a recorded event.

A recorded event is a unique, protected segment composed of the following:

- Video

- Audio

- Subtitles

Video

The V700 records a single compressed video stream using h.264 high-profile compressions. Depending on the configuration applied to the camera, the video quality can be one of the following levels:

- Lets you capture brilliant colors even when the 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 frames-per-second, image resolution of 1280 by 720 pixels

> **NOTE:** The V700 lens sensor corrects image distortion. It reduces the fisheye effect from the wide-angle lens.

Audio

The V700 records CD-quality audio with dual microphones that give minimal distortion and diminished wind noise. Depending on the configuration applied to the camera, it may:

- Continuously record audio

- Only record audio during recorded events

- Display `MUTED` on the display

  > **NOTE:** `RECORDING` shows on the display in a smaller font.

- Alerts you according to your agency configuration

  > **NOTE:** The alert type is configured in your agency evidence management system.

- Provides better audible feedback

Subtitles

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

- Officer name

- Date and time

- Device ID

- Microphone on or off

- GPS location

> 📝 **NOTICE:** The subtitles are always included with the video and audio in a recorded event. Using your agency evidence management system, you can turn them off or on.

For more information, see the following:

- Record-After-the-Fact (RATF) on page 41

- Pre-Event Capture on page 41

- Assigning a Configuration and Checking Out on page 30

- Event Upload on page 36

- V700 in a Recording Group on page 37

3.9
Recording Reminder Alert

The V700 notifies you regularly that it is still recording an event. You can configure the Recording Reminder Alert in the agency evidence management system to remind you periodically that V700 is recording an event.

The reminders include the following:

Tone
This tone sounds the same as the checkout tone. It sounds once and occurs at the interval set in the agency evidence management system configuration from 0 to 60 minutes.

Vibrate
Vibrate occurs at the interval set in the agency evidence management system configuration from 0 to 60 minutes.

3.10
Periodic Configuration Updates

If automatic updates are enabled in the agency evidence management system, the V700 queries for configuration updates every 10 minutes when docked. If it finds a change, it updates the configuration.

3.11
Data and Video Encryption Support

The V700 system supports data and video encryption at rest and in transit. The data on the SD card in the camera is not readable if removed. Also, you cannot write to it or erase it. To read the data on the SD card, you must contact customer support.

> 📝 **NOTE:** The evidence uploaded to the agency evidence management system is encrypted.

Storage

The V700 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, you should upload recorded events from the camera to the agency evidence management system. For more information, see Event Upload on page 36.

The V700 display shows a storage icon and percentage (10%) used for protected recorded events. As the camera records events and its storage fill, the storage icon fills up, and the percentage increases.
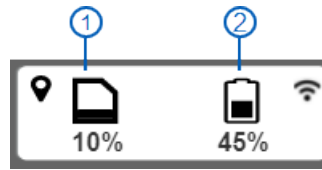
Figure 16: Camera and Battery Storage

Table 11: Camera and Battery Storage Items

Item	Description
1	The storage percentage used of the SD card.
2	The remaining battery storage percentage.

Low Storage and Full Storage Messages

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

- Two short tones and/or a vibration, depending on your alert configuration settings.

- Slow-blinking red LED and the storage used icon on the display.

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

- Fast-blinking red LED on the camera.

- Three short tones and/or a vibration, depending on your alert configuration settings.

- A FULL message on the display.

> ⚠ **WARNING:** If storage completely fills, the camera stops recording the new video.

3.12
GPS

The V700 includes a built-in Global Positioning System (GPS).

V700 uses the GPS feature to apply the following:

> **NOTE:** You can also track GPS through LTE. For more information, see Location over LTE.

- Accurate timestamps to recorded events.
  These timestamps allow the agency evidence management system to synchronize playback between events, video or audio, from V700 and a 4RE or M500 DVR.

- GPS location coordinates to the V700 recorded events.

The fixed status, longitude, latitude, speed, and time of day information is sent to the metadata service each second to be included in the event data. The speed information is compared to the configured maximum speed to determine if the vehicle has exceeded the excessive speed trigger. If it has, a message is sent to the event service to determine if an event should be started.

> **NOTE:** The GPS feature can be disabled in your agency evidence management system configuration.

3.13
WiFi Base

When V700 is paired with the WiFi Base, the camera display shows a Wi-Fi Signal Strength icon ( )
that indicates the strength of the Wi-Fi signal coming from the WiFi Base.

Example:

WiFi Base Connections

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

Setting up the WiFi Base

Typically, the WiFi Base and V700 systems are installed in the vehicle by your agency installation
technicians. For more information about installing the V700 system equipment in the vehicle, see the
4RE In-Car Video System Installation Guide or *M500 In-Car Video System Installation Guide*.

Remote Upgrade WiFi Base

The upgrade file for the WiFi Base downloads while the V700 is docked in the Transfer II Station. After you place the camera in the WiFi Base, the camera associates, and the power LED fast blinks amber while the upgrade is copied to the base. Afterward, the power LED slow blinks amber, signaling a pending upgrade. To apply the upgrade, you can power cycle the Wi-Fi base.

3.13.1
LED Icons

The LEDs on the WiFi Base brightness depends on the time of day. The display dims from 8:00 pm to 8:00 am.

Figure 17: Power LED Icons

Table 12: Power LED Items

Item	Description
1	Network linking
2	Charging

Table 13: Power Led Indicators

Status	Transfer Station II	WiFi Base	USB Base
Powered on standby	Power LED green solid	Power LED green solid	Power LED green off
Camera/Battery docked, charging	Power LED green blinks until 100% charged	Power LED green blinks until 100% charged	Power LED green blinks until 100% charged
Camera/Battery docked, finished charging	Power LED green solid	Power LED green solid	Power LED green solid
Camera/Battery docked, charge error	Power LED red solid	Power LED red blinks	Power LED red blinks
Associate success	N/A	Power LED green blinks 3 times	N/A
Associate error	N/A	Power LED red blinks 3 times	N/A

Status	Transfer Station II	WiFi Base	USB Base
Error	N/A	Power LED red blinks 1 second on, 1 sec off	Power LED red blinks
Base shutdown	N/A	Power LED green blinks until off	N/A
Base firmware upgrade	N/A	Power LED amber blinks 250 milliseconds (ms) on, 250 ms off	N/A
Base firmware upgrade Pending	N/A	Power LED amber blinks 500 ms on, 500 ms off	N/A
Smart Power Switch firmware upgrade staged	N/A	Power LED amber blinks 1 sec on, 1 sec off	N/A
Smart Power Switch firmware upgrade pending	N/A	Power LED amber off	N/A

Activity LED Indicators

Table 14: Activity LED Indicators

Status	Transfer Station II	WiFi Base	USB Base
Wireless connected, if no camera docked	N/A	Activity LED green WiFi LED blinks with WiFi Activity	N/A
Wireless disconnected	N/A	Activity LED green WiFi LED off	N/A
Camera docked	Activity LED amber solid	Activity LED green WiFi LED off	N/A
Backend server connected, if camera docked	Activity LED green solid	Activity LED amber solid Upload LED green solid	N/A
Upload in progress, if camera docked	Activity LED green blinks	Activity LED amber blinks Network upload activity on Ethernet interface	N/A
Backend server disconnected or Error, if camera docked	Activity LED red	Activity LED off Upload LED off	N/A

Transfer Station II Front LED Indicators

Table 15: Transfer Station II Front LED Indicators

Status	Transfer Station II
Power good	Main Power LED green solid

Status	Transfer Station II
Power fail	Main Power LED red solid
Backend server connected, transfer station link detected	LED amber green
Backend server not connected, transfer station link not detected	Link LED off
No MAC Address	Main Power LED red blinks

3.13.2
WiFi Base LEDs

The two LEDs on the front of the WiFi Base show the power connection status. The LEDs are light-sensitive and adjust to the ambient light.

Figure 18: LEDs on the WiFi Base

📝 **NOTE:** When V700 pairs with the WiFi Base, the camera display shows a Wi-Fi signal strength icon (📶) that indicates the strength of the Wi-Fi signal coming from the WiFi Base.

Table 16: LEDs on the WiFi Base Items

Item	Description
1	Network linking indicator
2	Charge indicator

Table 17: LED and WiFi Base Status

LED	State	WiFi Base status
No light		Powered off
Red	Solid	Charge error
Red	Blinking	Error condition , pairing not successful
Red	Blinking	Error condition
Green	Solid	Fully charged
Green	Blinking	In the shutdown or wireless upload timeout period

The left LED on the WiFi Base blinks green when it successfully pairs with a V700. The LED blinks red if the pairing was not successful.

> **NOTE:** If you get a solid red light, try undocking and redocking your camera and battery. If solid red appears repeatably, you should contact customer service.

Table 18: Network Activity LED

LED state	State	WiFi Base state
Off		Connected to the Distributed Multi-Peer Recording upload server (agency evidence management system)
Amber	Solid	Not connected to the camera or upload server (agency evidence management system)
Amber	Blinking	Activity with the upload server (agency evidence management system)
Green	Solid	Connected to the camera (Wi-Fi connection)
Green	Blinking	Activity with the camera (Wi-Fi connection)

If two cameras pair with the same WiFi Base, and one is docked, the WiFi Base LEDs show the state of the docked camera.

3.13.3
WiFi Base Firmware Upgrade

The V700 Camera automatically pulls firmware upgrades for the WiFi base from your agency evidence management system when the V700 is docked in a Transfer Station II.

> **NOTE:** Your agency evidence management system can be set up to push new firmware automatically. For instructions, see your agency evidence management system documentation. The camera checks every 30 minutes if a new firmware upgrade is available.

3.13.3.1
Upgrading WiFi Base

Procedure:

1 Dock the V700 in the Transfer Station II.

2 Upload events.

    a If an upgrade is available, your agency evidence management system pushes the firmware upgrade after the video upload completes.

3 Remove the V700 and dock it in the WiFi Base. The base upgrade occurs automatically.

    a The **amber LED blinks quickly**.

    b When the upgrade is complete the **amber LED blinks slowly**.

4 Power cycle the in-car system so that the upgrade will take effect immediately.

> **NOTE:** If you undock the camera before the upgrade is complete, the camera downloads the upgrade 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.

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

Chapter 4

V700 Connection with CommandCentral Aware

Your agency can configure V700 Body-Worn Cameras to connect wirelessly with CommandCentral Aware (CC Aware). The connection allows dispatch or Command staff to watch and listen to live streams and view your GPS location in real time from V700 in CC Aware.

For more information on how to live stream and share your location to CC Aware from V700, see the following sections:

*   Live Streaming over LTE to CommandCentral Aware on page 70
*   Location Sharing over LTE to CommandCentral Aware on page 71

The following table describes the different icons that can appear on the V700 display when the camera is connecting to CC Aware:

Table 19: V700 CommandCentral Aware Icons

Icon	Description
👁	**Visibility On/Live Streaming** Indicates that live streaming to CC Aware is occurring. For more information, see Live Streaming over LTE to CommandCentral Aware on page 70.
📍	**GPS** Indicates that the GPS is active. For more information, see GPS on page 63 and Location Sharing over LTE to CommandCentral Aware on page 71.
⏺	**Record** Indicates that the camera is recording and live streaming to CC Aware. For more information, see Starting a Recorded Event Manually on page 31 and Live Streaming over LTE to CommandCentral Aware on page 70.
4G	**LTE** (on a dark background) Indicates that the camera has an active LTE connection and is connected to your agency evidence management system. For more information, see LTE Wireless Service on page 86 and LTE Service Icons on page 86.

4.1
Live Streaming over LTE to CommandCentral Aware

Prerequisites: For V700 to live stream to CommandCentral Aware (CC Aware), your agency must configure this feature in the agency evidence management system, and your V700 must have a direct connection to a wireless LTE carrier service.

📝 **NOTE:** Your agency must have the proper license to use this feature.

Procedure:

1 Power on V700 by following the procedure in Powering On on page 19.

2 To verify that the V700 has a connection to an LTE service and the agency evidence management system, ensure that the 4G icon ![4G icon] appears on the display.

For more information on the service icons for LTE, see LTE Service Icons on page 86.

> ![note icon] **NOTE:** If you do not have an active connection to the agency evidence management system, the V700 does not live stream to CC Aware.

3 Start a recording on V700 by following the procedure in Starting a Recorded Event Manually on page 31.

The following occurs:

- The record icon ![record icon] appears on the display to confirm that you are recording.

- The visibility on icon ![visibility icon] appears on the display to confirm that you are live streaming to CC Aware.

- V700 broadcasts to CC Aware that you are live streaming, where dispatch or Command staff can watch and listen to real-time recordings from V700.

4 Optional: To stop live streaming to CC Aware, stop the recording by following the procedure in Stopping a Recorded Event Manually on page 32.

4.2
Location Sharing over LTE to CommandCentral Aware

Prerequisites: To share your location from V700 to CommandCentral (CC Aware), your agency must configure this feature in the agency evidence management system, and your V700 must have a direct connection to a wireless LTE carrier service.

> ![note icon] **NOTE:** Your agency must have the proper license to use this feature.

Procedure:

1 Power on V700 by following the procedure in Powering On on page 19.

2 To verify that the V700 has a connection to an LTE service and the agency evidence management system, ensure that the 4G icon ![4G icon] appears on the display.

For more information on the service icons for LTE, see LTE Service Icons on page 86.

> ![note icon] **NOTE:** If you do not have an active connection to the agency evidence management system, the V700 does not share your location with CC Aware.

3 To verify that your GPS location is active, ensure that the GPS icon ![GPS icon] appears on the display.

Your location appears on CC Aware, where dispatch or Command staff can view and monitor your location in real-time.

> ![note icon] **NOTE:** When the V700 is turned On and idel, it sends location updates to CC Aware every 1 minute. When the V700 is activity recording, location updates are sent to CC Aware every 15 seconds.

4 Optional: To stop sharing your location to CC Aware, turn off V700 by following the procedure in
Powering Off on page 19.

Chapter 5

SmartControl for Mobile

SmartControl runs on any Android phone running Android 6 or higher and on any iPhone running iOS 12 or higher.

> **NOTE:** If you are using an iPhone, you must enable Maximum Compatibility mode. For more information, see https://support.apple.com/en-us/HT203302.

5.1
SmartControl Overview

SmartControl is the companion smartphone application for the V700 Body-Worn Camera, allowing officers to view evidence and tag videos on their phone or tablet. SmartControl works in both portrait and landscape mode, making it convenient to use on tablets.

SmartControl connects wirelessly to V700, in which the camera acts as an 802.11n Wi-Fi access point (hotspot) for the smartphone.

The SmartControl application gives you the capability to perform the following functionalities:

Table 20: SmartControl Functionalities

• Review recorded events	• Set Officer Preferences
• Categorize recorded events	• Live stream video
• Add secondary tags	• Start and Stop a recording
• Start and stop recorded events	• Enter and exit Covert Mode
• Adjust camera LEDs	
• Enter and exit Covert Mode	

> **IMPORTANT:** IP address 192.168.98.x is reserved for SmartControl.

5.1.1
Downloading the SmartControl App

Procedure:

1 To download the SmartControl app on an Android device, perform the following actions:

   a On the device, go to the Google Play Store.

   b Search for SmartControl for Android.

   The SmartControl app icon for Android appears for you to download.

   Figure 19: SmartControl App for Android

2 To download the SmartControl app on an iOS device, perform the following actions:

    a On the device, go to the Apple App Store.

    b Search for Motorola Solutions SmartControl for iOS.

The SmartControl app icon for iOS appears for you to download.

Figure 20: SmartControl App for iPhone or iPad
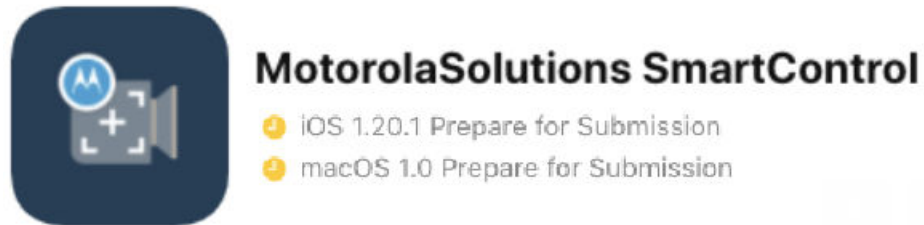
5.2
SmartControl Enablement

For SmartControl to operate properly, based on the device type, it requires you to enable Wi-Fi, Bluetooth, or GPS services when you first launch the application.

Android

For Android, it requires you to enable Wi-Fi, Bluetooth, and GPS services.

Figure 21: Android Services Enablement
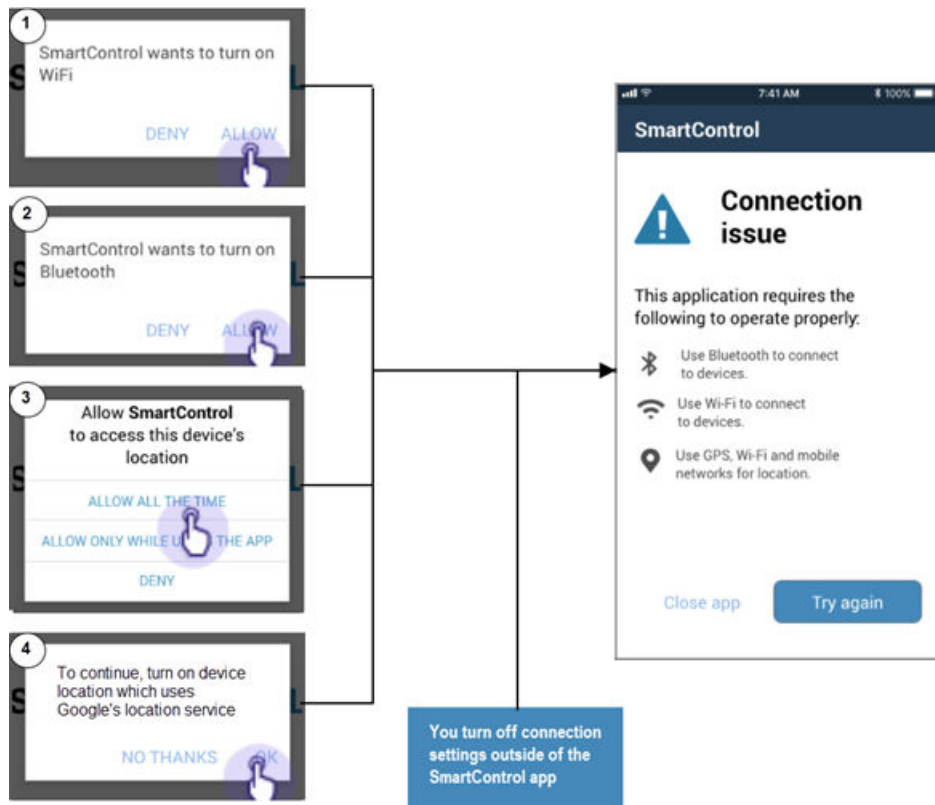
Table 21: SmartControl Services Enablement Items

Item	Description
1	SmartControl wants to turn on WiFi. You must select **ALLOW** to enable the service.
2	SmartControl wants to turn on Bluetooth. You must select **ALLOW** to enable this service.
3	Allow SmartControl to access this device's location. You must select **ALLOW** to enable this service. If you decline, the location access a second time. Selecting **Try Again** does not work. You have to reset location access outside the app in your device.
4	To continue turn on device location, which uses Google Location service, you must select **OK**.

If you encounter SmartControl connection issues on your Android device, see Troubleshooting Android Connection Setting Issues on page 76.

iOS

For iOS, it requires you to enable only Wi-Fi and Bluetooth services.

Figure 22: iOS Services Enablement

Table 22: iOS Services Enablement Items

Item	Description
1	Connection Issues: the application requires Bluetooth and WiFi to connect to the camera
2	Open Settings
3	You turned off connection settings outside of the app
4	Connection Issue: app requires Bluetooth and WiFi
5	Open Settings and turn on Bluetooth and WiFi
6	Let's Get Started: press the highlighted buttons at the same time on the camera and hold for 5 seconds to connect to the app
7	Press the Connect button

Item	Description
8	When you return to the app, the screen auto-refreshes
9	Connect the new device

If you encounter SmartControl connection issues on your iOS device, see Troubleshooting iPhone Connection Setting Issues on page 76.

5.2.1
Troubleshooting Android Connection Setting Issues

SmartControl does not work if you close it or turn off connection settings outside of the application. To troubleshoot the connection problem, you can either select **Close app** or **Try again**.

When and where to use:
You can use any of the following methods in this procedure to connect with SmartControl.

Procedure:

1   To try relaunch the app, use **Try Again**.

2   Close the application and enable the Wi-Fi and GPS directly through Android.

3   Close the application and relaunch it.

> **NOTE:** Closing the application and reopening it does not reinstate the connections.

5.2.2
Troubleshooting iPhone Connection Setting Issues

SmartControl needs both Wi-Fi and Bluetooth services to get started. SmartControl does not work if you closed it or turned off connection settings outside of the application.

Procedure:

1   Open **Settings** and enable Bluetooth and Wi-Fi directly through iOS.

> **NOTE:** Closing or restarting the application and reopening it does not reinstate the connections.

5.3
# Connecting SmartControl to aV700

You must check out your V700 from your agency evidence management system to connect the camera to SmartControl, depending on your agency configuration.

> **IMPORTANT:** SmartControl runs on any smartphone running Android 6 or higher and iOS 12 or higher.

To activate press the **Function** (top) button and the **Display Backlight** button on the camera at the same time and hold for 5 seconds

Figure 23: Connecting to the V700
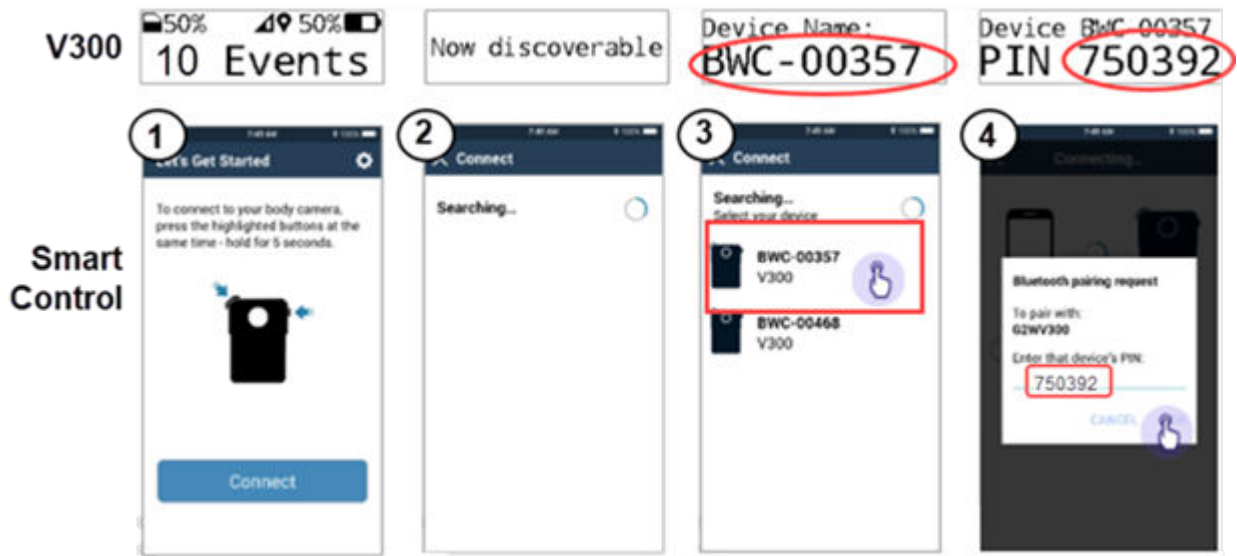
Item	Description
1	All previous device pairing information clears when you start the process. Any events in memory will still be on the camera.
2	SmartControl is searching for a camera to connect to. It only takes a few seconds to search for the connection. (Searching times out after 30 seconds. Try again if this happens.)
3	The app finds any close camera. Check the screen on the V700 UI for your camera name. Touch the area with the camera ID on the screen to select your camera.
4	Enter the Pin number shown on the V700 on the line provided for the Bluetooth pairing in SmartControl.

The Samsung A10s running Android 10 and Sony Xperia L4 device running Android 9 may have trouble pairing with SmartControl. It does not recognize the ID number and responds as invalid pin. Try it again and it should work.

SmartControl Settings

Settings allows you to set Officer Preferences.

Figure 24: Officer Preferences and Device Connection
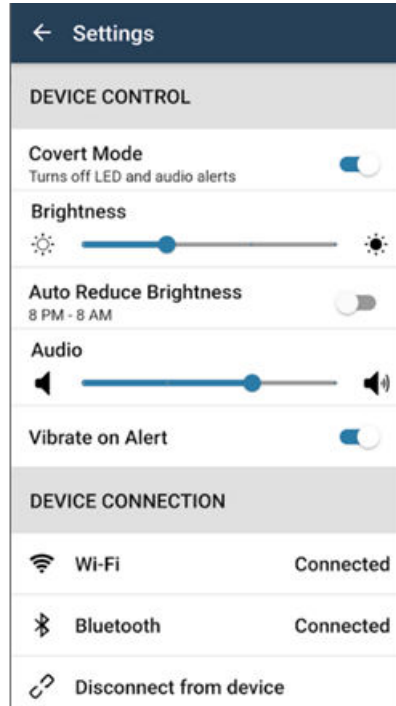
- Set Officer Preferences
  - Covert Mode: setting this depends on your agency configuration
  - Brightness
  - Auto Reduce Brightness
  - Audio
  - Vibrate on Alert
- See the state of your device connections
- Disconnect from device (V700)
- Scrollable below Disconnect from Device, (not shown):
  - Customer support phone number
  - Customer support website link
  - About SmartControl
  - About Connected Device

5.5

Accessing Settings When Not Connected

You can view the settings screen when you are not connected to the app. You can see that Wi-Fi and Bluetooth are disconnected. You can also see how to contact Customer support. You have to update the settings outside of the app.

Procedure:

Tap the **settings** (1) button at the top right of the app to access the settings screen (2).

Information about your application appears. The Wi-Fi and Bluetooth are disconnected and some settings are grayed out because you are not connected to the V700. The Customer support contact information is shown.
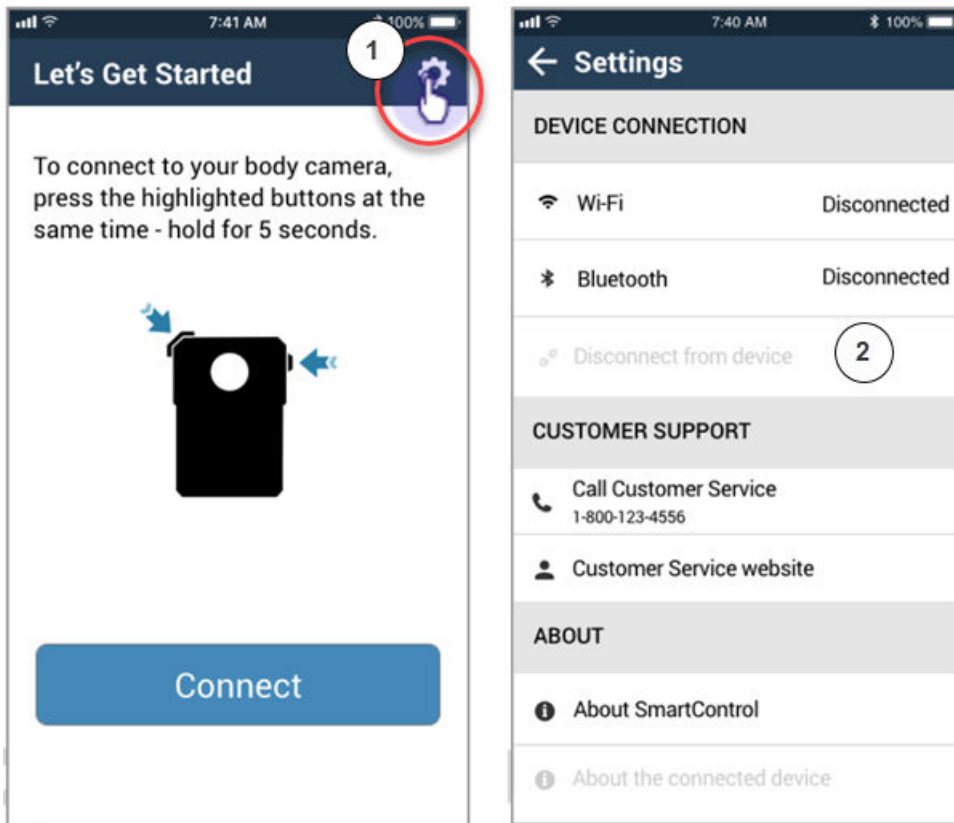
5.6
iOS Previously Connected Device Connection Issue

If there is an issue connecting to a previously connected device, press the camera buttons and start the search for the camera.

Figure 25: iOS previously Connected Device Connection Issue
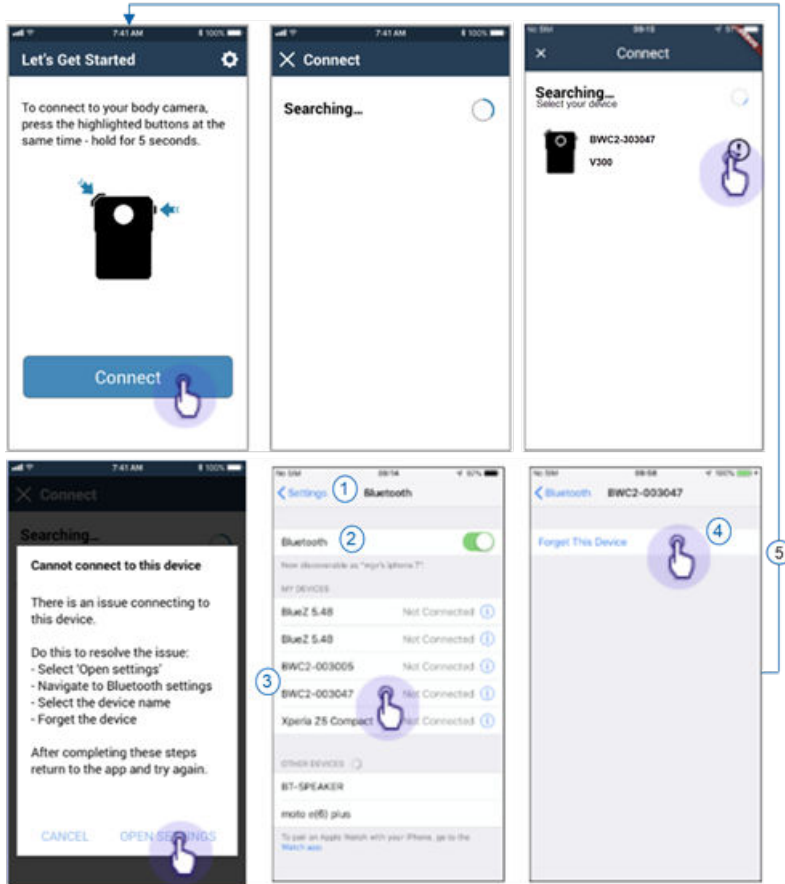
If the app says that it cannot connect to this device, there is an issue connecting to the camera. To resolve the issue:

Item	Description
1	Select Settings
2	Navigate to Bluetooth settings. Ensure that it is on
3	Select the device name
4	Select Forget this device
5	After all the steps are complete, return to the beginning and try again

5.7
Setting SmartControl Officer Preferences

Tap the Settings icon to access the SmartControl Officer Preferences in the **DEVICE CONTROL** screen.

Figure 26: Setting Officer Preferences
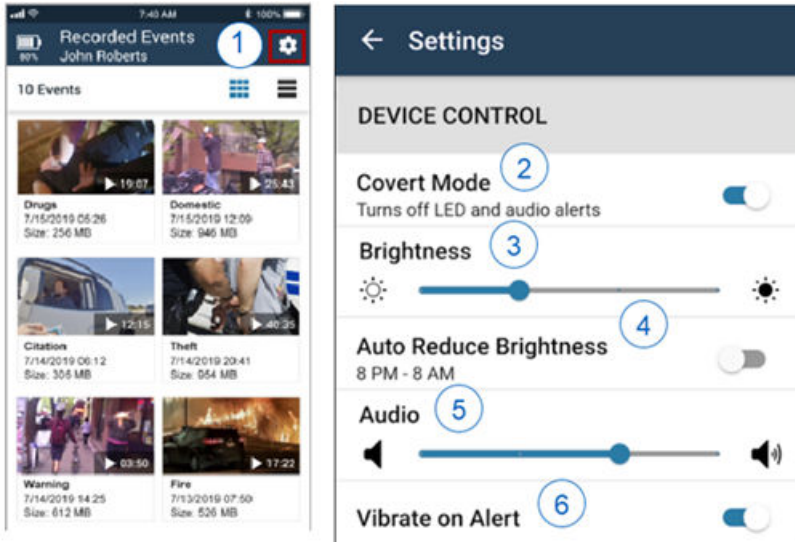
Item	Description
1	Settings icon. Tap to bring up the settings.
2	Turn Covert Mode on or off
3	Set the Brightness of your screen
4	Sets Brightness to dim from 8 pm to 8 am, based on the time on your V700
5	Set the volume of your tones
6	Turn Vibrate on Alert on or off

5.8
Categorizing an Event

Use the SmartControl app to categorize a recorded event on your smartphone. After you stop recording on the V700, you can categorize an event.

Category tagging is accessible from the recorded events screen.
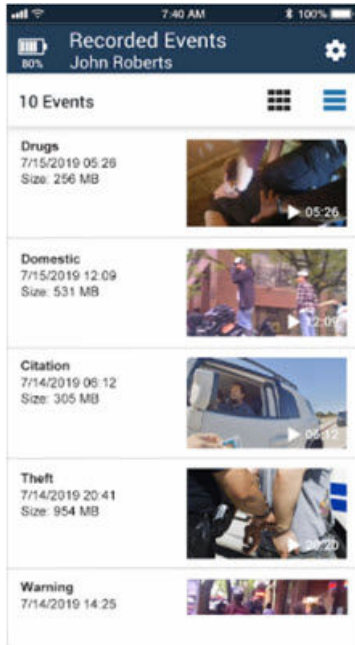
You can categorize an event immediately after stopping a recording. You can also categorize an event by selecting an event from a recorded events screen.

Figure 27: Categorizing an Event
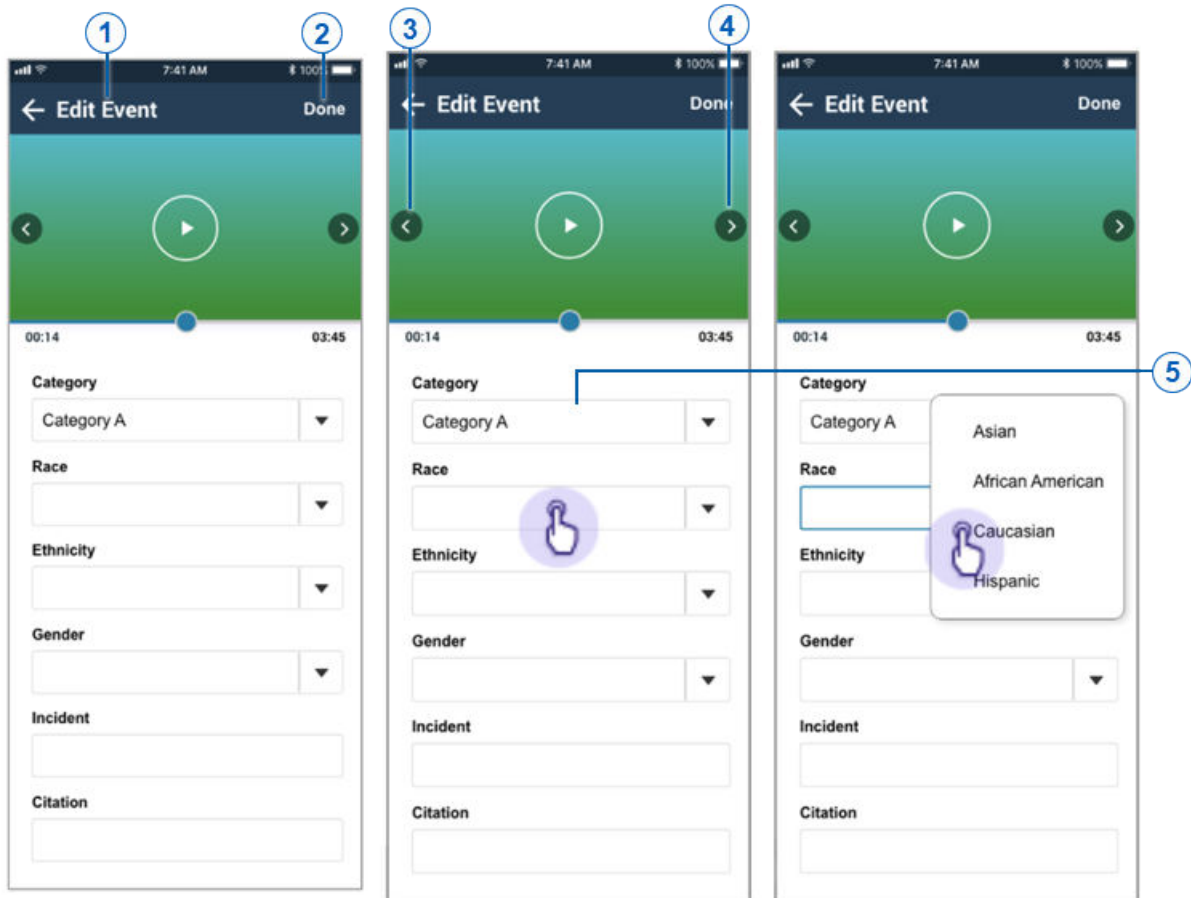
Item	Description
1	Goes back to the previous screen
2	Done goes to the events screen
3	If there is more than one event, the back arrow goes to the previous event screen.
4	If there is more than one event, the forward arrow goes to the next event screen.
5	Fields with a default value will show that default value.

For tagging after a recording is stopped, the Recording complete event-tagging screen appears automatically.

Figure 28: Automatic Tagging on Recording Stop
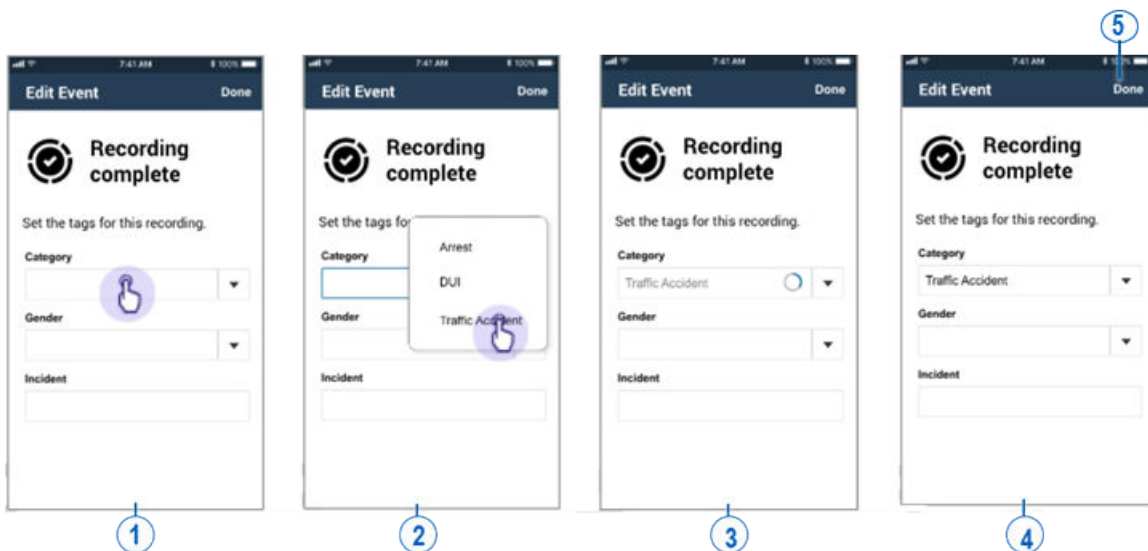
Item	Description
1	Select a category tag (set by your agency)
2	Select a value
3	The tag is synchronized with V700
4	Tag synchronization is successful
5	Tapping Done takes you back to the recorded events screen

5.9
Streaming Live Video

You can use the live view on the smartphone to do the following tasks:

Item	Description
1	View the live video stream from the V700 and Start an event
2	Turn On or Off Covert Mode
3	View the live video stream from the V700 and Stop the event

5.10
V700 Low Battery

From anywhere in the SmartControl app, when the V700 battery reaches 10% or lower, the app interrupts with a warning. If you select STAY CONNECTED, the phone returns to the previous screen. If the V700 reaches a certain level, it shuts down automatically. You can select **DISCONNECT FROM DEVICE** and insert a new battery into the camera. Then you go through the start up procedure again. (See Connecting SmartControl to aV700 on page 76.)

Disconnecting from the camera makes the device last longer. You can also disconnect later through settings.
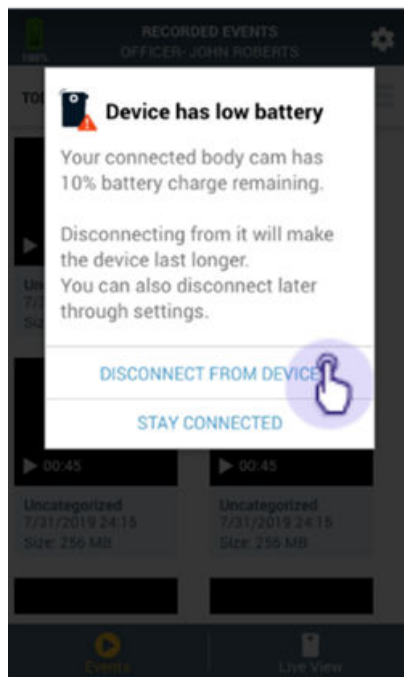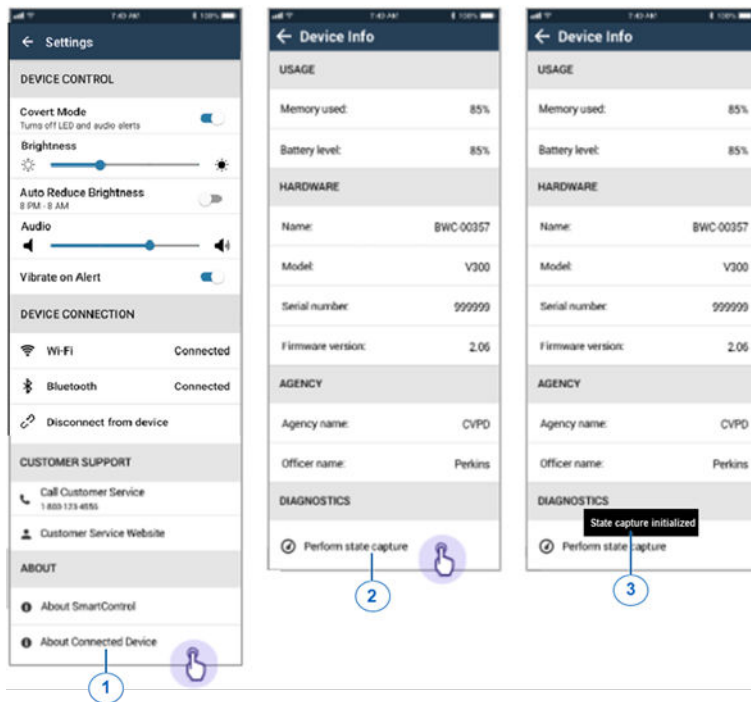
5.11
Starting a State Capture

You can request that your V700 perform a state capture and save it to the V700 for use by Motorola Solutions technical services.

To start a state capture:

tem	Description
1	Tap About Connected Device
2	Tap Perform state capture
3	The State capture initialized message appears

Figure 29: Performing a State Capture

Chapter 6

LTE Wireless Service

The V700 body-worn camera is equipped with an internal LTE modem and wireless carrier SIM card from Verizon, AT&T/FirstNet or Bell Mobility (in Canada). The LTE service is not active by default. To activate LTE service, please contact your carrier of choice. The internal modem IMEI and SIM card ICCID are listed on the packaging box label of the camera and the QR Code on the back housing label of the camera. After the LTE service is activated, it will be active when the camera is turned on and not docked in a Transfer Station, USB Base, or WiFi Base.

The V700 automatically connects to the provisioned wireless carrier network. Connectivity and roaming on available carrier networks are controlled automatically by V700 and do not require user intervention. The user does not have access to disable the LTE modem operation. The modem remains idle when not in use.

NOTE: If LTE signal level is below 50%, the V700 will suspend automatic upload and cancel manual upload. When the signal is back above 50%, automatic upload will restart and manual upload has to be restarted manually through the menu.

NOTE: For specific models, the LTE service may be disabled (airplane mode) by default, but GPS location coordinates logging into video recordings is still available.

6.1

LTE Service Icons

Different indicators can appear on the V700 display to convey the status of your LTE service.

Table 23: LTE Service Icons

Indicator	Description
	When LTE service is enabled, the 4G icon is displayed in the bottom right corner of the camera screen. When the V700 camera is registered and connected to a wireless carrier network, the 4G icon bars represent the signal strength of the network reception.
	When the V700 camera is not connected to a network or searching for a network, an `X` is shown under the 4G signal strength.
	When the V700 camera is connected to your agency evidence management system and is available to send location updates, stream live video, or upload video recordings, a dark square appears around the 4G signal strength icon.
	When V700 has a low 4G reception, the `LTE SIGNAL WEAK` message appears on the display of the camera. The message only appears when the 4G reception is lower than 50%. Once the message appears, it stops the in-progress

Indicator	Description
	automatic upload and cancels the manual upload, and you cannot begin a new upload until your 4G reception is higher than 59%.

6.2

LTE Automatic Uploads

Agencies can configure V700 cameras to automatically upload events over LTE to the agency evidence management system as soon as they are recorded and tagged without docking the camera.

NOTE: The power source of V700 is a removable battery that is easy to replace to allow continuous operation with minimal disruption. If the V700 battery level drops below 10%, the automatic upload is paused until the battery is charged to at least 10% or more or another charged battery is attached.

NOTE: If the LTE signal is below 50%, the LTE upload will suspend automatic uploads and cancel manual uploads. When the LTE signal reaches above 50% again, automatic upload will resume. Manual upload must be resumed manually through the menu. See

The following upload configurations are supported:

Table 24: Event Upload Configurations

Item	Description
Upload All Events	When configured, all critical and regular events are uploaded.
Upload Critical Events Only	When configured, only critical events are uploaded. All other events remain on the camera until docked.

6.2.1

Uploading Events Automatically over LTE

Prerequisites: For V700 to automatically upload, undock from the WiFi Base, the camera must have an active connection to an LTE service and the agency evidence management system. If there is no connectivity, the event automatically uploads as soon as there is a connection to both LTE and the

agency evidence management system. Check if the ⊞ icon appears on the display to verify the connection.

Procedure:

1 Start a recording on V700 by following the procedure in Starting a Recorded Event Manually on page 31.

2 When you are finished, stop the recording by following the procedure in Stopping a Recorded Event Manually on page 32.

   NOTE: Uploading stops if you press the **Record Start/Stop** button and start a new recording. After you stop and tag the new event, the camera begins the uploading process again.

3 Tag the event by following the procedure in Categorizing a Recorded Event on page 32.

   NOTE: If you do not tag the event in time, the event uploads with an uncategorized tag.

   The following results occur:

- The upload icon ![upload icon] appears on the display, indicating that the automatic upload over LTE has begun.

- After the upload is complete, the checkmark icon ![checkmark icon] appears on the display to confirm that the agency evidence management system has received the event.

4 Optional: Log onto your agency evidence management system to locate and play back the recorded event that uploaded over LTE.

6.3
Uploading Events Manually over LTE

You can upload events manually to the agency evidence management system over LTE through the V700 **Menu** in the camera. To manually upload events over LTE, your agency must configure this feature for V700 cameras in the agency evidence management system.

Procedure:

1 To enter **Menu Mode**, press the **Function** button.

2 To cycle to the **Upload Menu** category, press the **Display Backlight** button.

3 To enter the **Upload Submenu**, on the **Upload Menu** item, press the **Function** button.

One of the following results occurs:

- If the device is not in an uploading session and depending on the configuration of the camera, V700 displays `All Events or Critical Events`.

- If the camera is in an uploading session, V700 displays `Cancel Upload`.

The cancel upload icon ![cancel upload icon] appears on the home screen while the cancellation is in progress and disappears after the cancellation is complete.

- If there are no events to upload, V700 displays `No Events or No Criticals`.

- If the device is connected to SmartControl, V700 displays `App Blocking`.

4 To start the manual upload, select either **All Events** or **Critical Events**.

> **NOTE:** You can cancel an event upload that is in progress. All events that are uploaded before pressing the **Cancel Upload** button remain uploaded and flagged for aging.

After the upload is complete, you receive a confirmation message.