

VIRB™ Series Owner's Manual



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Introduction

⚠ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

It is your responsibility to use the device in a safe manner. Garmin® will not be responsible for any property damage, injuries or deaths resulting from any use of this device in any activities.

Installing a Memory Card

You must install a microSD™ memory card up to 64GB to use your device. For optimal performance, use a class 10 or better memory card.

- 1 Turn the D-ring counter-clockwise, and pull up to remove the cover.
- 2 If necessary, remove the battery pack.
- 3 In the battery compartment, slide the card holder ① toward the lens, and lift up.



- 4 Place the memory card ② with the gold contacts facing down.
- 5 Close the card holder.
- 6 Slide the card holder away from the lens to lock it.
- 7 Replace the battery pack.
- 8 Replace the battery cover, and turn the D-ring clockwise.

Installing the Battery Pack

⚠ WARNING

This product contains a lithium-ion battery. To prevent the possibility of personal injury or product damage caused by battery exposure to extreme heat, store the device out of direct sunlight.

- 1 Turn the D-ring counter-clockwise, and pull up to remove the cover.
- 2 Locate the metal contacts on the end of the lithium-ion battery.
- 3 Insert the battery into the compartment, contacts first.



- 4 Press the battery into place.
- 5 Replace the battery cover, and turn the D-ring clockwise.

Charging the Lithium-Ion Battery Pack

NOTICE

To prevent corrosion, thoroughly dry the mini-USB port, the weather cap, and the surrounding area before charging or connecting to a computer.

Do not attempt to use the device to charge a battery that was not provided by Garmin. Attempting to charge a battery that was not provided by Garmin can damage the device and void the warranty.

NOTE: The battery will not charge when outside the temperature range of 32 to 114°F (0 to 45°C).






You can charge the battery using a standard wall outlet or a USB port on your computer. You can also use an optional battery charger accessory. Go to www.garmin.com/outdoor for more information.

- 1 Pull up the weather cap ① from the mini-USB port ②.



- 2 Plug the small end of the USB cable into the mini-USB port.
- 3 Plug the USB end of the cable into the AC adapter or a computer USB port.
- 4 Plug the AC adapter into a standard wall outlet.
When you connect the device to a power source, the device turns on. The LED is orange while the battery is charging.
- 5 Charge the battery completely.
The LED turns green when the battery is fully charged.
- 6 Remove the USB cable and fully close the weather cap.

Battery Status

	Critically low battery or missing battery
	Low battery
	Remaining battery
	Charging
	Fully charged

Saving Energy While Charging the Device

You can turn off the device display and all other features while charging.

- 1 Connect your device to an external power source.
The remaining battery capacity appears.
- 2 Hold the power key for 4 to 5 seconds.
The display turns off, and the device goes into a low power, battery charging mode.
- 3 Charge the device completely.

Keys



	Select to scroll through menus and settings.
	Select to scroll through menus and settings.
OK 	Select to choose menu options or to take a photo.
MODE 	Select to scroll through modes. Hold to turn the device on and off.
REC	Slide toward the lens to record video.

Mounting the Device

NOTICE

To prevent product loss or damage, do not use the mounting base when the temperature is below 5°F (-15°C).

The permanent mounting adhesive is extremely difficult to remove after it is installed.

Before you can install the mounting base onto a surface, the ambient temperature must be from 70° to 100°F (from 21° to 38°C).

Your device includes an assortment of mounting bases and arms, which can be used in many configurations. These instructions provide an example of one possible configuration. You can also purchase additional mounts for your device, such as wearable mounts, vehicle mounts, or a tripod mount. Go to www.garmin.com/outdoor for more information.

NOTE: By default, the camera should be mounted with the screen facing up to record correctly oriented video. You can adjust the settings to record with the screen facing down ([page 4](#)).

- 1 Thoroughly clean the mounting surface using water or alcohol.
- 2 Remove the film from the base ①, and press the base firmly onto the mounting surface.

You can use either the flat base or the curved base, depending on the contour of the mounting surface.



- 3 Allow the base to bond to the mounting surface for at least 24 hours.
- 4 Place the coupler ② into the base.
- 5 Place the threaded ring ③ over the coupler, and tighten it onto the base.
- 6 Snap the mounting arm ④ into the coupler.
- 7 Insert a thumbscrew ⑤ into the larger opening of the joint, and tighten the thumbscrew to lock the angle of the joint.
- 8 Snap the camera mount ⑥ into the top of the mounting arm.
- 9 Insert a thumbscrew into the larger opening of the joint, and tighten the thumbscrew to lock the angle of the joint.
- 10 Place the tab ⑦ on the back of the camera mount into the slot in the back of the camera.
- 11 Squeeze the buttons ⑧ on the sides of the mount, press the front of the camera ⑨ down, and release the buttons.



The camera should be held tightly and should not move in the mount when properly secured.

- 12 If the camera feels loose in the mount, press the front of the camera into the mount until it clicks.

Turning On the Device

Select

Turning Off the Device

NOTICE

To prevent loss of data, always turn off the device before removing the battery.

NOTE: You cannot turn off the device while recording video.

- 1 If necessary, slide **REC** away from the lens.
- 2 Hold .

⏻ appears on the screen while the device saves track log data and turns off.

If you need to remove the battery, wait until the screen turns off before removing the battery.

Turning the Device On and Off Using REC

You can use **REC** to turn the device on and off in recording mode. This feature allows you to start recording quickly, while automatically turning off the device to conserve battery power when you are not recording.

NOTE: The device does not turn off using **REC** unless you use **REC** to turn on the device.

- 1 With the device turned off, slide **REC** toward the lens. The device turns on and starts recording video.
- 2 When you are finished recording, slide **REC** away from the lens. The device stops recording and turns off.

Modes

You can operate your device in several modes.

VIEWFINDER: Displays the camera viewfinder and status information.

PLAYBACK: Allows you to view recorded videos and photos.

DASHBOARD: Displays sensor data in charts and data fields (VIRB Elite only).

SETUP: Allows you to change camera settings.

Changing Modes

- 1 Select **MODE** to cycle through the available modes.



The modes cycle from left to right. The icon for the selected mode appears larger, and the name of the selected mode appears at the bottom of the screen.

- 2 Stop selecting **MODE** when the desired mode appears.

Viewfinder

You can use the viewfinder to set up shots, view status information, and level the camera (VIRB Elite only).

Select **MODE** > **VIEWFINDER**.



①	Battery status
②	Recording time remaining on the memory card
③	Current video mode

△	Select to view the level (page 3).
▽	Select to view the status page (page 3).

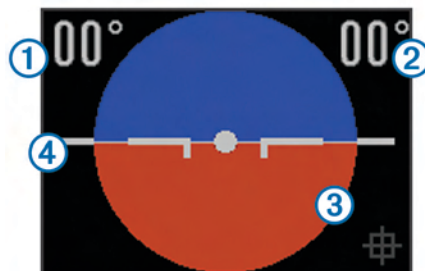
Leveling the Device

NOTE: This feature is available for VIRB Elite only.

You can use the on-screen level when you mount the device to ensure your videos and photos are perfectly level.

- 1 Select **MODE** > **VIEWFINDER** > △.

The level appears.



- 2 Adjust the device until the degree of roll ① and degree of pitch ② are both 00°, and the brown section of the level ③ is even with the horizon line ④.

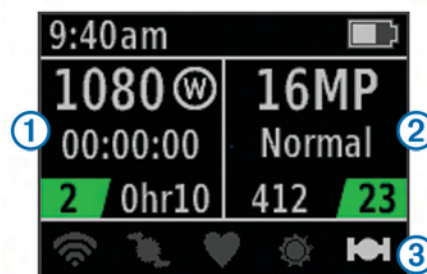
Calibrating the Level

You can calibrate the level if it does not seem accurate. It may be necessary to calibrate the level when using the device in extreme temperatures.

- 1 Place the device flat on a level surface, with the screen facing up.
- 2 Select **MODE** > **VIEWFINDER** > △.
- 3 Select **OK**.

Status Page

The status page provides at-a-glance details about the current settings of your device. Select **MODE** > **VIEWFINDER** > ▽.



①	Displays the video mode, field of view, elapsed time, interval or loop setting (if set), number of videos, and time remaining on the memory card.
②	Displays the photo resolution, camera mode, timer count (if set), photos remaining, and number of photos.
③	Displays the sensors (VIRB Elite only) including Wi-Fi®, cadence, heart rate, tempe™, and GPS.

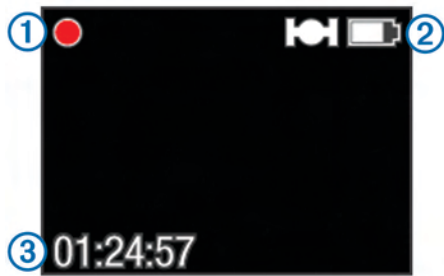
Video

Recording a Video

NOTE: If the battery power becomes very low while recording video, the device automatically stops recording, saves the video, and safely turns off.

- 1 Slide **REC** toward the lens to start recording video.

If the device is off, it turns on automatically. The device starts recording video, and the viewfinder appears.



The viewfinder displays the recording status ①, the GPS and battery status ②, and the elapsed recording time ③.

2 When you are finished recording video, slide **REC** away from the lens.

The video is saved on the memory card as an MP4 file, and the track log for the video is saved on the memory card as a GPX file.

Video Settings

Select **MODE > SETUP > VIDEO**.

Mode: Sets the resolution, aspect ratio, and frame rate.

Field of View: Sets the zoom level.

Loop: Enables loop recording and sets the number of minutes of video to store when recording a video loop.

Auto Record: Enables automatic recording (VIRB Elite only).

Microphone: Enables the microphone.

NOTE: This setting is not available when the device is connected to an external microphone.

TIP: If wind noise is an issue when recording video, you can disable the microphone.

Video Modes

You can set the resolution, aspect ratio, frame rate, and speed of recorded video. The resolution is the width and height of the video, in pixels. The aspect ratio is the ratio of the video width to the video height. Standard widescreen televisions use a 16:9 aspect ratio, and standard full screen televisions use a 4:3 aspect ratio. The frame rate is expressed in frames per second (fps). The speed indicates the speed of action in the video compared to real time.

1080p: Use this mode when you need high-resolution widescreen shots. **1080p** works well as a default setting.

Tall HD: Use this mode when you need a large, vertical viewing area. **Tall HD** is particularly useful for close-up action shots and when using a helmet mount.

Fast HD: Use this widescreen mode to capture high-speed action shots.

Economy HD: Use this widescreen mode when you need a longer recording time. **Economy HD** uses less space on your memory card.

Slow Mo HD: Use this widescreen mode to capture handheld shots with slow-motion playback.

Super Slow Mo: Use this mode when you need super slow-motion playback in standard definition.

Time Lapse: Use this high-resolution widescreen mode to capture slow-moving or long-term action.

Video Mode Specifications

Mode	Resolution (pixels)	Aspect Ratio	Frame Rate (fps)	Speed
1080p	1920×1080	16:9	30	Normal
Tall HD	1280×960	4:3	48	Normal
Fast HD	1280×720	16:9	60	Normal
Economy HD	1280×720	16:9	30	Normal

Mode	Resolution (pixels)	Aspect Ratio	Frame Rate (fps)	Speed
Slow Mo HD	1280×720	16:9	60	1/2 speed
Super Slow Mo	848×480	16:9	120	1/4 speed
Time Lapse	1920×1080	16:9	30	Varies

Field of View

You can change the field of view when **Lens Correct** is set to **Off**. Select **MODE > SETUP > VIDEO > Field of View**.

Wide: Captures a wide view of your surroundings. Use this mode for open areas, close-range video, and when you want to capture as much of your viewing area as possible.

Zoom (2x): Captures a tighter view. Use this mode for medium-range video.

Ultra-Zoom (4x): Captures a very focused view. Use this mode for long-range video and closed or covered surroundings.

Advanced Recording Settings

Select **MODE > SETUP > ADVANCED**.

Lens Correct: Corrects wide-angle barrel distortion and reduces the field of view. Automatically sets **Field of View** to **Wide** in the video settings. **On+Stabilize** turns on image stabilization to reduce shaky video.

Flip Camera: Sets the camera to capture video and images with the screen facing up or down. **This Side Down** captures correctly oriented video and photos with the screen facing downward.

Inverting the Camera Orientation

You can change the camera orientation of your device to easily access **REC** during an activity. If you are mounting the device above your head, you can invert the camera orientation to aid visibility of the recording light or display.

1 Select **MODE > SETUP > ADVANCED > Flip Camera**.

2 Select an option:

- Use **This Side Up** to use the device with the screen facing upward.
- Use **This Side Down** to use the device with the screen facing downward.

Recording Video Automatically

NOTE: This feature is available for VIRB Elite only.

You can set the device to record video automatically based on your activity. This feature allows you to conserve space on your memory card by recording only the important parts of your activity.

1 Select **MODE > SETUP > VIDEO > Auto Record**.

2 Select an option:

- To record video automatically when the device is moving, select **When Moving**.
The device records video when you are moving and stops recording when you are still.
- To record video automatically when you are skiing, select **Ski Mode**.
The device records video when you are moving downhill and stops recording when you board the chairlift.

This feature automatically enables GPS in the system settings.

Recording a Time Lapse Video

Time lapse mode captures individual video frames at longer intervals and creates a video that plays much faster than real time. You can use time lapse to record movements, changes, or events that take place over a long period of time.

Time lapse videos play at 30 frames per second. The length of the video depends on the amount of time between video frames. For example, if frames are recorded at a one-second interval, each second of video covers 30 seconds of real time. If frames are recorded at a 60-second interval, each second of video covers 30 minutes of real time.

- 1 Select **MODE > SETUP > VIDEO > Mode > Time Lapse**.
- 2 Select a time interval.
- 3 For the best results, mount the device so that it will not move while recording.
- 4 Record a video.

Recording a Video Loop

Loop mode allows you to record video continuously but save only the most recent video footage. You can select the number of minutes of video to save. This enables you to save storage space when you want to capture key moments but do not want to save all footage of an activity. This feature is useful when using the device as a driving recorder.

The saved video loop is split into multiple files of equal length. This allows you to delete unwanted portions of the video easily.

- 1 Select **MODE > SETUP > VIDEO > Mode > Loop**.
- 2 Select the number of minutes of video to save.
Max uses all available storage space on the memory card.
- 3 Start recording video.
- 4 When finished, stop recording.

The most recent footage is saved on the memory card, up to the number of minutes selected in step 2.

Connecting an External Microphone or Audio Source

Before you can connect an external microphone, you must purchase a VIRB accessory cable with audio input. Go to www.garmin.com/outdoor. You must also have an external microphone or audio source with a 3.5 mm connector.

When you connect an external microphone, the device records audio from the external microphone instead of the built-in microphone.




- 1 Pull up the weather cap from the mini-USB port.
- 2 Connect mini-USB plug on the accessory cable to the mini-USB port on the device.
- 3 On the device, when prompted to output video, select **No**.
- 4 On the device, when prompted to use an external microphone, select **Yes**.
- 5 Connect the microphone to the **MIC IN** connector on the accessory cable.

To stop using the external microphone, you must disconnect the accessory cable from the device.

Photos

Taking a Photo

Your device provides several methods for taking a photo.


- Select **MODE > VIEWFINDER**, aim the camera using the viewfinder, and select .
- From anywhere except the playback screen, hold .
The device displays the photo briefly and returns to the page you were using.
- While recording a video, select  to capture a photo at the same resolution as the video recording.
Photos taken while recording a video always use normal photo mode. Burst mode is ignored while recording video.

Photos Settings

Select **MODE > SETUP > Photos**.

Resolution: Sets the photo resolution to **16 MP (4:3)**, **12 MP (16:9)**, or **8 MP (4:3)**.

Mode: Sets the shooting mode. **Burst** mode takes several photos in quick succession to capture a specific instance, such as the finish line during a race.

Self Timer: Sets the timer to delay taking a photo. **Repeat On** automatically repeats the time interval and captures a photo until you press  again.

Date Stamp: Adds a date stamp to your photo.

Photo Modes


Select **MODE > SETUP > Photos > Mode**.

Normal: Takes a single photo using automatic exposure.

Burst: Rapidly takes three 16MP images, five 12MP images, or ten 8MP images in one second. Burst mode is ideal for capturing photos of people or objects in motion.

Taking a Delayed Photo


You can delay taking a photo using the self timer. This allows you to join or adjust a shot before the photo is taken.

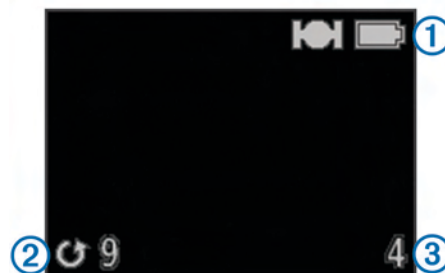
- 1 Select **MODE > SETUP > Photos > Self Timer**.
- 2 Select a delay time.
- 3 Select **Repeat Off**.
Repeat Off is not an option when **Burst** mode is enabled.
- 4 Select **MODE > VIEWFINDER**.
- 5 Select .

The countdown timer displays the remaining time until the photo is taken, in seconds.

Taking Repeated Photos

You can use the self timer to take repeated photos at a set time interval. This enables you to take several photos of a subject or to take a series of time-lapse photos.

- 1 Select **MODE > SETUP > Photos > Self Timer**.
- 2 Select a time interval between photos.
- 3 Select **Repeat On**.
- 4 Select **MODE > VIEWFINDER**.
- 5 Select .



The device takes repeated photos at the selected interval. The viewfinder displays the GPS and battery status **1**, the time in seconds until the next photo is taken **2**, and the number of repeated photos the device has taken **3**.

- 6 Select  to stop taking photos.

Playback

Viewing Photos and Videos

You can view your photos and recorded videos on the device screen.

- 1 Select **MODE > PLAYBACK**.
- 2 Select an option:
 - To select a photo or video, select ▾ or △.
 - To quickly scroll through the list, hold ▾ or △.
 Videos are indicated with 📹. Videos and photos are sorted by date and time with the most recent item listed first.
- 3 Select **OK**.
You can control video playback using the on-screen controls.

Viewing Video Over HDMI®

You can connect your device to an external display using an HDMI-to-micro HDMI cable (not included).

- 1 If necessary, turn on the device.
- 2 Pull up the weather cap ① from the micro HDMI port ②.



- 3 Plug the small end of the HDMI cable into the micro-HDMI port.
- 4 Plug the large end of the cable into an available HDMI port on the external display.
- 5 On the device, select **MODE > PLAYBACK**.
- 6 Select △ and ▾ to select a video.
- 7 Select **OK**.

The video plays on the external display.

Connecting Headphones

Before you can connect headphones to your device, you must purchase the VIRB audio-video cable accessory. Go to www.garmin.com/outdoor.

Using headphones, you can monitor the audio when recording a video and listen to your recorded video in **PLAYBACK** on the device.

- 1 Pull up the weather cap from the mini-USB port.
- 2 Connect the mini-USB plug on the audio-video cable to the mini-USB port on the device.
- 3 Connect the headphones to the 3.5 mm **AUDIO OUT** connector on the audio-video cable.
Your device automatically detects the audio-video cable and displays a setup wizard.
- 4 On the device, when prompted to output video, select **No**.
- 5 On the device, when prompted to use an external microphone, select **No**.

To stop using the headphones, you must disconnect the audio-video cable from the device.

Adjusting the Volume

When headphones are connected to your device, you can adjust the volume.

- 1 Select **MODE > SETUP > SYSTEM > Audio Out**.
- 2 Select △ and ▾ to change the volume level.
- 3 Select **OK**.

Outputting Composite Video

Before you can output composite video, you must purchase the VIRB audio-video cable accessory. Go to www.garmin.com/outdoor. You must also have an RCA composite video cable and a 3.5 mm stereo audio cable.

You can play video on an external display using composite video and stereo audio.

- 1 Pull up the weather cap from the mini-USB port.
- 2 Connect mini-USB plug on the audio-video cable to the mini-USB port on the device.
- 3 On the device, when prompted to output video, select **Yes**.
- 4 Connect an RCA composite video cable to the composite video output connector of the audio-video cable and to an available port on your external display.
- 5 Connect a 3.5 mm audio cable to the **AUDIO OUT** connector on the audio-video cable and to an available port on your external display.

TIP: If your external display requires RCA audio input, you can use a 3.5 mm-to-RCA adaptor cable.

Deleting Photos and Videos

- 1 Select **MODE > PLAYBACK**.
- 2 Select ▾ and △ to select a photo or video.
- 3 Select **OK > ✕**.

Tracks

NOTE: This feature is available for VIRB Elite only.

A track is a recording of your path. The track log contains information about points along the recorded path, such as time, location, and elevation for each point. If you have paired ANT+™ sensors with your device, data from connected sensors is included in the track log.

The device records a continuous track log while it is on. This track is saved as a FIT file on the memory card each time you turn off the device. The device also records a separate track log for each video recording. Video track logs are saved as GPX files on the memory card each time you stop recording video. The track logs include track point data at one-second intervals.

You can view GPX and FIT track logs on your computer using the BaseCamp™ application. Go to www.garmin.com/basecamp for more information. You can also view and upload FIT track logs to Garmin Connect™. Go to <http://connect.garmin.com> for more information.

Recorded Track Log Data

Each point in the track log records your GPS location and data from available sensors. The device can record these categories of data in the track log.




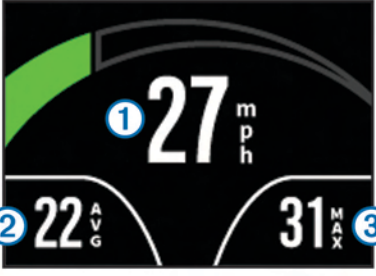
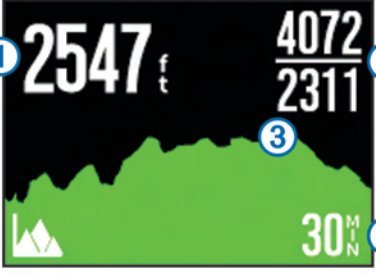
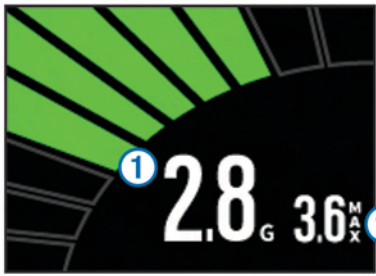



- GPS location
- Speed
- Distance from the starting point
- Time
- Elevation
- G-force
- Heart rate (when connected to a compatible heart rate monitor)
- Cadence (when connected to a compatible bicycle cadence sensor)
- Temperature (when connected to a compatible temperature sensor)

Dashboards

NOTE: This feature is available for VIRB Elite only.

A dashboard is a grouping of data fields, charts, or graphs of data from the device sensors and connected ANT+ sensors. The dashboards provide real-time and historical views of the sensor data recorded to the track log.

NOTE: All minimum, maximum, and average dashboard data resets after you turn off the device.

	<p>Compass displays the current heading and partial compass ring. You must be moving to use the compass.</p>
	<p>Time displays the time since the device was turned on ①, time of day ②, and time of sunset or sunrise ③.</p>
	<p>Distance displays the total distance ①, total descent ②, and total ascent ③.</p>
	<p>Speed displays the current speed ①, average speed ②, and maximum speed ③.</p>
	<p>Elevation displays the current elevation ①, maximum and minimum elevations ②, elevation graph ③, and time scale ④.</p>
	<p>G-force displays the current g-force acceleration ① and maximum g-force acceleration ②.</p>
	<p>When connected to a sensor, heart rate displays the current heart rate ①, maximum and minimum heart rates ②, heart rate graph ③, and time scale ④.</p>
	<p>When connected to a sensor, temp displays the current temperature ①, maximum and minimum temperatures ②, temperature graph ③, and time scale ④.</p>
	<p>When connected to a sensor, cadence displays the current cadence ①, maximum and minimum cadences ②, cadence graph ③, and time scale ④.</p>

Viewing the Dashboards

- 1 Select **MODE > DASHBOARD**.
- 2 Select Δ or ∇ to scroll through the dashboards.

Pairing Your ANT+ Sensors

When you pair a compatible ANT+ sensor with your device, the sensor data is included in the track log, and you can view dashboards for the sensor data.

- 1 Turn on the sensor, and bring the device and sensor within 10 ft. (3 m) of each other.
- 2 On the device, select **MODE > SETUP > SENSORS**.
- 3 On the device, select the type of sensor to pair.
The icon for the sensor blinks. When the icon turns solid, the sensor is paired and connected.

Remote Control

You can start recording, stop recording, and take pictures on your VIRB device using another compatible Garmin device with ANT+ wireless technology, such as the VIRB remote control accessory or the fēnix™ watch. You can also use your VIRB device to control other VIRB devices.

Controlling the Device Remotely

- 1 On your VIRB device, select **MODE > SETUP > Remote**.
- 2 Select **VIRB Type > Main VIRB**.
- 3 Select an option:
 - On the remote control device, launch the VIRB app or feature. See the owner's manual for the device for more information.
 - On the remote control accessory, follow the pairing instructions in the accessory manual.

Controlling Multiple VIRB Devices Remotely

When controlling multiple VIRB devices, you must choose a main VIRB device. This device controls all your other VIRB devices.

If you are using a remote control device with multiple VIRB devices, the remote control device controls only the main VIRB device. The main VIRB device passes commands received from the remote control device to the other VIRB devices.

- 1 On all of your VIRB devices, select **MODE > SETUP > Remote**.
- 2 On your main VIRB device, select **VIRB Type > Main VIRB**.
- 3 On each of your other VIRB devices, select **VIRB Type > Extended VIRB**.
REC on your main VIRB device starts and stops recording video on all your VIRB devices.  on your main VIRB device takes a photo from all your VIRB devices.
- 4 If you are using a remote control device, select an option:
 - On the remote control device, launch the VIRB app or feature. See the owner's manual for the device for more information.
 - On the remote control accessory, follow the pairing instructions in the accessory manual.

Operating the Device Using Your Mobile Device

NOTE: This feature is available for VIRB Elite only.

You can remotely view and control photo and video recording using a compatible mobile device running the free Garmin VIRB app. The app connects using a direct Wi-Fi connection between your VIRB device and your compatible mobile device. Go to www.garmin.com or the application store for your mobile device for compatibility information.

- 1 If necessary, install the Garmin VIRB app from the application store on your mobile device.
- 2 On your VIRB device, select **MODE > SETUP > WIFI > WIFI**.
The VIRB device enters wireless host mode, and the SSID and password appear on the device screen.
- 3 On your mobile device, go to the wireless settings and connect to the wireless network that matches the SSID on the VIRB device screen.
See the owner's manual for your mobile device for more information.
- 4 On your mobile device, enter the password that appears on the VIRB device screen.
- 5 On your mobile device, start the Garmin VIRB app.

Advanced Wireless Settings

You can change the wireless host settings for your device. Select **MODE > SETUP > WIFI > Advanced**.

SSID: Sets the SSID, which identifies your VIRB device on other devices.

Password: Sets the password used to connect to your VIRB device.

Troubleshooting

My device does not turn on

- Install a memory card ([page 1](#)).
The device does not boot if a memory card is not installed.
- Verify the battery is installed correctly ([page 1](#)).
- Fully charge the battery ([page 1](#)).

My device display is hard to see

The device has a reflective display that maximizes battery life and is readable in direct sunlight. The display does not have a backlight and requires ambient light for visibility. If the display looks dark or hard to see, you should increase the ambient light or go to a brighter area.

Some information is missing from the dashboards

Dashboards are available only for VIRB Elite devices ([page 7](#)). Some dashboard information requires you to enable or pair sensors.

- Enable GPS ([page 8](#)), and go to an area with a clear view of the sky.
Location, speed, distance, and altitude information requires a GPS signal.
- Connect additional ANT+ sensors ([page 7](#)).
Some dashboards are available only when a compatible ANT+ sensor is connected.

My video recordings do not look smooth

- If video recordings appear shaky, select **MODE > SETUP > VIDEO > Lens Correct > On+Stabilize** to enable image stabilization.
- If video recordings stutter or skip frames, install a class 10 or better microSD memory card ([page 1](#)).
The device requires a class 10 or better memory card to record smooth high-definition video.

My device turns off when I stop recording video

If you turn on the device by sliding **REC** toward the lens, the device turns off when you slide **REC** away from the lens. This allows you to maximize battery life by turning off the device when it is not recording.

Device Information

System Settings

Select **MODE > SETUP > SYSTEM**.

GPS: Enables the device to receive GPS satellite signals.
When Recording enables GPS reception only when the camera is recording video (VIRB Elite only).

NOTE: **GPS** must be set to **On** to enable **Auto Record**.

Record Light: Turns the recording light on or off.

Tones: Turns audible tones on or off.

Time: Sets the time and date formats.

Units: Sets the units of measure.

Language: Sets the on-screen text language.

Reset Settings: Restores the default device settings.

About: Displays important software information and your unit ID.

Time Settings

Select **MODE > SETUP > Time/Date**.

Time: Sets the time.

NOTE: VIRB Elite devices set the time automatically when you enable GPS.

Time Format: Sets the device to show time in a 12-hour or a 24-hour format.

Date: Sets the date.

NOTE: VIRB Elite devices set the date automatically when you enable GPS.

Date Format: Sets the device to show dates in a MM/DD/YY or a DD/MM/YY format.

Time Zone: Sets the time zone for the device. **Automatic** sets the time zone automatically based on your GPS position (VIRB Elite only).

Erasing Your Memory Card

NOTICE

Erased data cannot be restored.

You can erase all photos, videos, and other data on the memory card installed in your device.

Select **MODE > SETUP > CARD > Erase > OK**.

Extending the Battery Life

NOTE: GPS and ANT™ do not significantly affect battery life.

- Disable Wi-Fi.
- Turn the device on and off using **REC** (page 3).
- Use automatic recording (page 4).

Device Care

NOTICE

Avoid chemical cleaners, solvents, and insect repellents that can damage plastic components and finishes.

Do not store the device where prolonged exposure to extreme temperatures can occur, because it can cause permanent damage.

The device is water resistant to IEC Standard 60529 IPX7. It can withstand immersion in 1 meter of water for 30 minutes. Prolonged submersion can cause damage to the device. After submersion, be certain to wipe dry and air dry the device before using or charging.

Cleaning the Device

NOTICE

Do not use a dry cloth to clean the lens. Use of a dry cloth may damage the fog resistant coating on the lens.

Wipe the device with a soft, non-scratch cloth dampened with water or alcohol.

File Types

The device supports these file types.

- GPX track files (output only).
- JPEG photo files.
- MP4 video files.
- FIT files for exporting to Garmin Connect (output only).

Connecting the Device to Your Computer

NOTICE

To prevent corrosion, thoroughly dry the mini-USB port, the weather cap, and the surrounding area before charging or connecting to a computer.

Before you can connect the straight connector of the USB cable to your device, you may have to remove optional mount accessories.

- 1 Pull up the weather cap from the mini-USB port.
- 2 Plug the small end of the USB cable into the mini-USB port.
- 3 Plug the large end of the USB cable into a computer USB port.

Your device and memory card (optional) appear as removable drives in My Computer on Windows® computers and as mounted volumes on Mac® computers.

Support and Updates

The Garmin VIRB application provides easy access to these tools and services for your device.

- Reviewing and editing recorded videos
- Reviewing track logs
- Linking track logs to your recorded videos
- Software and feature updates

The Garmin VIRB application is available for Windows and Mac computers. Go to www.garmin.com/VIRB for more information.

Specifications

Battery type	Rechargeable Lithium-ion battery
Battery life	Up to 3 hours
Water resistance	Water resistant to IEC 60529 IPX7
Operating temperature range	From 5° to 140°F (from -15° to 60°C)
Charging temperature range	From 32° to 113°F (0° to 45°C)
Radio frequency/protocol	2.4 GHz ANT+ wireless communications protocol Wi-Fi IEEE 802.11 b/g at 2.4 GHz

Getting More Information

You can find more information about this product on the Garmin website.

- Go to www.garmin.com/outdoor.
- Go to www.garmin.com/learningcenter.
- Go to <http://buy.garmin.com>, or contact your Garmin dealer for information about optional accessories and replacement parts.

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Notice

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two

conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

For P15B equipment

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 or more of the following measures:

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

FCC RF Radiation Exposure Statement:

- (1) This Transmitter has been demonstrated co-location compliance requirements as documented in this filing.
- (2) This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

Canada — Low-power license-exempt radio communication devices (RSS-210)

a. Common information

Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

b. Operation in 2.4 GHz band To prevent radio interference to the licensed service, this device is intended to be operated indoors and installation outdoors is subject to licensing.

Canada - de faible puissance exempts de licence des appareils de communication radio (CNR-210)

a. Informations communes

Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences, et
2. Ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

b. Le fonctionnement en bande de 2,4 GHz Pour prévenir les interférences radioélectriques aux services sous licence,

cet appareil est destiné à être exploité à l'intérieur et à l'extérieur d'installation est soumise à licence.

IC radiation exposure statement This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in

IEEE 1528. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. Note: The county code selection feature is disabled for products marketed in the US/Canada.

Déclaration IC exposition aux rayonnements Cette EST est le respect de SAR pour la population générale / limites

d'exposition non contrôlée dans les IC RSS-102 et a été testé conformément aux méthodes et procédures de mesure

spécifiées dans la norme IEEE 1528. Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionner

conjointement avec une autre antenne ou transmetteur. Remarque: La fonction code de comté de sélection est

désactivée pour les produits commercialisés dans les États-Unis et le Canada.