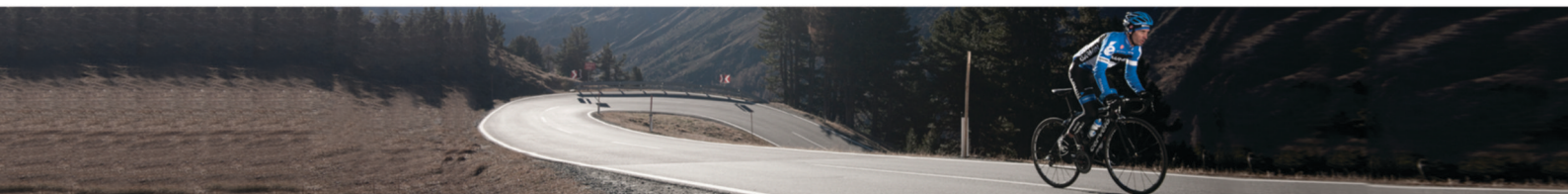


**GARMIN®**

**Varia Vision™**



Owner's Manual

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This product is ANT+® certified. Visit [www.thisisant.com/directory](http://www.thisisant.com/directory) for a list of compatible products and apps.

M/N: A02913

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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.

Always consult your physician before you begin or modify any exercise program.

## Charging the Device

### NOTICE

To prevent corrosion, thoroughly clean and dry the contacts and the surrounding area before charging or connecting to a computer. Refer to the cleaning instructions in the appendix.

The device is powered by a built-in lithium-ion battery that you can charge using a standard wall outlet or a USB port on your computer.

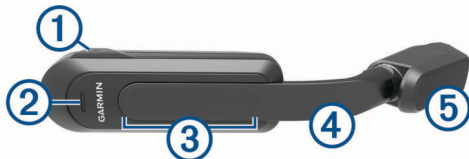
**NOTE:** The device does not charge when outside the approved temperature range (*Specifications*, page 2).

- 1 Align the charger posts with the contacts on the back of the device ①, and press the charger until it clicks.



- 2 Plug the large end of the USB cable into an AC adapter or a computer USB port.
- 3 Plug the AC adapter into a standard wall outlet.
- 4 Charge the device completely.
- 5 Pinch the buttons ② to remove the charger.

## Device Overview



① Power key	Hold to turn the device on and off.
② Ambient light sensor	Automatically detects available light and adjusts the brightness of the display.
③ Touch panel	Swipe or tap to interact with device ( <i>Using the Touch Panel</i> , page 1).
④ Display arm	Bend to adjust the display. <b>NOTE:</b> Bending the display arm more than 90 degrees, could damage the device.
⑤ Display	Twist to adjust the location of the display. <b>NOTE:</b> Twisting the display more than 15 degrees, could damage the device.

## Using the Touch Panel

You can use the touch panel to interact with many device features. You can operate the touch panel with your finger tip or while wearing gloves.

- Swipe the touch panel to scroll through data screens, options, and settings.  
You can swipe forward and backward.
- Swipe the touch panel to dismiss notifications.
- Swipe the touch panel to acknowledge notifications and alerts.

- When **On Demand/Alert Only** is enabled, double-tap the touch panel to wake up and put the device into sleep mode.

## Installing the Mount on Your Sunglasses

- 1 Select a band size that fits your sunglasses arm.

**NOTE:** The band should be tight so the device does not move while riding.

- 2 Place the flat side of the mount against the sunglasses arm.
- 3 Attach the first band on the top hook and pull it around the sunglasses arm.

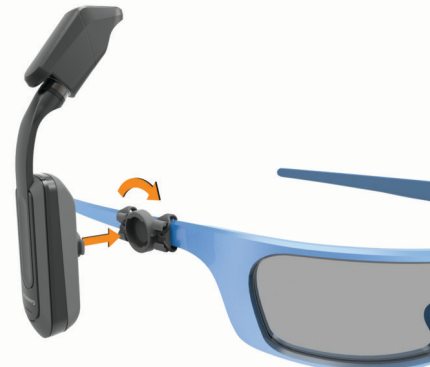


- 4 Attach the other side of the band on the bottom hook.
- 5 Attach the second band.

## Installing the Device on the Mount

Before you can install the device on the mount, you must install the mount on your sunglasses arm.

- 1 Align the notches on the mount and the device.
- 2 Press down slightly and turn the device until it locks into place.



- 3 Adjust the display in front of the sunglasses lens.

## Tips for Installing the Varia Vision Device

- Select a secure location to mount the device on your sunglasses arm, where it does not interfere with the safe operation of your bike.
- Select the bands that best fit your sunglasses.
- Install the device correctly.
- Adjust the display before going for a ride.
- Go for a test ride during the day in a safe environment.

## Tips for Adjusting the Display

- Unfold the sunglasses arms before you adjust the display.
- Place the mount in a location where the display reaches the sunglasses lens.
- Bend the display arm.
- Rotate the display.
- Move the mount forward and backward on the sunglasses arm.

## Pairing the Varia Vision Device with Your Garmin® Device


Pairing is the process of connecting an ANT+® accessory, such as the Varia Vision device, with a Garmin ANT+ compatible device such as the Edge® 1000.

- For optimal performance, you may need to update your Edge software to the latest version available.
- Bring the Garmin compatible device within 3 m of the ANT+ accessory.
- Stay 10 m away from other ANT+ sensors while pairing.

After you pair the first time, your Garmin compatible device automatically recognizes the ANT+ accessory each time it is activated.

### Pairing the Varia Vision Device with Your Edge 1000 Device

Before you can pair the devices, you must update the Edge software. For optimal performance, you may need to update your Edge software to the latest version available.

- 1 Bring the Edge device within range (3 m) of the accessory.  
**NOTE:** Stay 10 m away from other ANT+ sensors while pairing.
- 2 Turn on the Edge device.
- 3 From the home screen, select  > **Sensors** > **Add Sensor**.
- 4 Turn on the Varia Vision accessory.
- 5 Select your sensor, and select **Add**.

When the accessory is paired with your Edge device, the status icon appears solid on the connections page.

### Pairing with Your Edge 520 Device

Before you can pair the devices, you must update the Edge software. For optimal performance, you may need to update your Edge software to the latest version available.

- 1 Bring the Edge device within range (3 m) of the accessory.  
**NOTE:** Stay 10 m away from other ANT+ sensors while pairing.
- 2 Turn on the Edge device.
- 3 From the home screen, select **Menu** > **Settings** > **Sensors** > **Add Sensor**.
- 4 Turn on the Varia Vision accessory.
- 5 Select your sensor, and select **Add**.

When the accessory is paired with your Edge device, the status icon appears solid on the connections page.

### Pairing Your Device with Varia™ Radar Device

- 1 Bring the device within range (3 m) of the Varia radar device.  
**NOTE:** Stay 10 m away from other ANT+ sensors while pairing.
- 2 Turn on the Varia Vision device.

When the device is paired with your radar, the device connected page appears.

### Viewing Varia Radar Data on Your Varia Vision Device

Go for a ride.

When paired with the Edge device and the Varia radar device information appears on the active data screen.



The vehicle position LED ① moves up the target status bar LED ② as a vehicle gets closer to your bike. The threat level LED ③ and column ② change color based on the potential level of threat. Green indicates no vehicle is detected. Orange indicates a vehicle is approaching. Red indicates a vehicle is advancing at a high rate of speed. The Varia Vision device vibrates when the threat level changes.

### Radar Detection

- The radar detects approaching vehicles up to 140 m away.
- The approaching vehicle speed must be from 10 to 160 km/h (from 6 to 99 mph).

**NOTE:** The radar does not detect vehicles traveling at the same speed as your bike.

- The radar beam width is 40 degrees. It provides radar coverage for typical bends in the road.
- The radar can detect up to eight approaching vehicles.

## Device Settings

You can remotely control your Varia devices and customize settings using your compatible Edge device. This section contains instructions for the Edge 1000 device. Other compatible Edge devices use similar settings.

### Display Settings

From your Edge sensor screen, select your Varia Vision device, and select Display Settings.

**Auto Brightness:** Automatically adjusts the backlight brightness based on the ambient light.

**Display Mode:** Sets the display mode to Stays On for the display to be continuously on, or On Demand/Alert Only to save battery power. On Demand/Alert Only mode automatically turns the display off when not in use.

**Auto Scroll:** Sets the display speed of the scrolling data screens while the timer is running.

**Background Color:** Sets the device to display day or night colors. The Auto option allows the device to automatically set day or night colors based on the time of day.

### Customizing the Data Screens

You can customize the data fields for each data screen.

- 1 From your Edge device, select your Varia Vision device.
- 2 Select **Data Screens**.
- 3 Select a training page.
- 4 If necessary, enable the data screen.
- 5 Select < or > to select a **Data Field Layout**.
- 6 Select a data field to change.
- 7 Select a category.
- 8 Select an option.

## Device Information

### Specifications

Battery type	Rechargeable, built-in lithium-ion battery
Battery life	Up to 8 hr.
Battery charge time	Approximately 1.5 hr.
Water rating	IEC 60529 IPX7 <sup>1</sup>
Operating temperature range	From -20° to 60°C (from -4° to 140°F)

<sup>1</sup> The device withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to [www.garmin.com/waterrating](http://www.garmin.com/waterrating).

Charging temperature range	From 0° to 45°C (from 32° to 113°F)
Radio frequency/protocol	2.4 GHz ANT® wireless communications protocol

## Device Care

### NOTICE

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

Never use a hard or sharp object to operate the touchscreen, or damage may result.

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

## Cleaning the Device

### NOTICE

Even small amounts of sweat or moisture can cause corrosion of the electrical contacts when connected to a charger. Corrosion can prevent charging and data transfer.

- 1 Wipe the device using a cloth dampened with a mild detergent solution.
- 2 Wipe it dry.

After cleaning, allow the device to dry completely.

## Troubleshooting

### The mount does not fit my sunglasses arm

Although the Varia Vision device is compatible with most sunglasses, it works best with sunglasses with a wide, flat arm.

- Use the correct size bands.  
The device includes different sizes of bands.
- Adjust the location of the mount on the sunglasses arm.

## Viewing the Device Information

You can view the unit ID, software version, regulatory information, and license agreement.

- 1 Turn on the device.
- 2 When the Garmin screen or logo appears, swipe the touch panel.  
The About page appears.

## Support and Updates

Garmin Express™ ([www.garmin.com/express](http://www.garmin.com/express)) provides easy access to these services for Garmin devices.

- Product registration
- Product manuals
- Software updates

## Getting More Information

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

## Appendix

### Software License Agreement

BY USING THE DEVICE, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY.

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