Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Garmin 010-02477-00

Garmin Varia RCT 716 Bicycle Radar with Camera User Manual

Model: 010-02477-00
Brand: Garmin

Introduction

The Garmin Varia RCT716 is an advanced bicycle radar with an integrated camera and rear light, designed to enhance cyclist safety on the road. This device continuously records your ride, automatically saving video clips before, during, and after an incident. It also features radar technology to detect vehicles approaching from behind up to 140 meters away, providing visual and audible alerts through compatible Garmin devices or the Varia app.
Key features include:

- Integrated dashcam for continuous recording at 1080p and 30fps.
- Automatic incident detection with video sequence storage.
- Radar detection of approaching vehicles up to 140 meters.
- Bright 5-lumen rear light for enhanced visibility.
- Seamless connectivity with Garmin Edge bike computers, compatible Garmin wearables, and the Garmin Varia app.
- Multiple camera modes for power saving or full performance.
- Easy and flexible mounting on various bike seat post types.

Setup and Installation

Follow these steps to set up your Garmin Varia RCT716:

1. **Charge the Device:** Before first use, fully charge the Varia RCT716 using the supplied USB cable. Connect the USB cable to the device's charging port and a USB power source.
2. **Insert SD Memory Card:** The device comes with a 16 GB SD memory card. Locate the SD card slot, typically protected by a rubber cover, and insert the card until it clicks into place. Ensure the device is off before inserting or removing the card.
3. **Mounting the Device:**

   The Varia RCT716 is designed for easy installation on your bicycle's seat post. Use the included seat post holder and follow these general steps:

- Select a suitable position on your seat post that allows for clear visibility of the rear light and camera, and does not obstruct your pedaling.
- Attach the seat post holder securely to the seat post using the provided straps or bands. The holder is compatible with round, D-shape, and Aero seat posts.
- Slide the Varia RCT716 onto the mount until it locks securely. Ensure the device is oriented correctly with the camera facing directly backward.



Image: Garmin Varia RCT716 mounted on a bicycle seat post, showing its rear-facing camera and red light. This image illustrates the device's compact design and how it integrates with a bicycle.

4. **Pairing with Compatible Devices:**

The Varia RCT716 can be paired with Garmin Edge bicycle computers, compatible Garmin wearables, or the Garmin Varia app on your smartphone.

- **For Garmin Devices:** Refer to your Garmin Edge or wearable's user manual for specific pairing instructions. Generally, you will enable sensor search on your Garmin device and then power on the Varia RCT716 to enter pairing mode.
- **For Varia App:** Download the Garmin Varia app from your smartphone's app store. Open the app, enable Bluetooth on your phone, and follow the on-screen prompts to add your Varia RCT716. The app allows for video transfer, camera control, and radar alerts.

Operating Instructions

Understanding the functions of your Varia RCT716 will ensure optimal performance and safety.

Power On/Off

Press and hold the power button (located on the side of the device) for approximately one second to turn the device on or off. The rear light will illuminate, and the device will begin its startup sequence.

Radar Functionality

Once paired, the radar continuously monitors traffic approaching from behind. When a vehicle is detected within 140 meters, your paired Garmin device or the Varia app will provide visual and audible alerts. The intensity and frequency of these alerts may vary based on the speed and proximity of the approaching vehicle.

Camera Operation and Recording Modes

The integrated dashcam records high-quality video at 1080p and 30fps. You can manage camera settings and view recordings via the Garmin Varia app.

- **Continuous Recording:** The camera records continuously while the device is powered on. Older footage is automatically overwritten as the SD card fills up, ensuring you always have recent recordings.
- **Incident Detection:** In the event of an incident (e.g., sudden braking or impact), the device's accelerometer detects the event and automatically saves video clips from before, during, and after the incident to a protected folder on the SD card, preventing them from being overwritten.
- **Multiple Camera Modes:**
  - **Camera Always On:** Records continuously.
  - **Light and Radar Functions Only:** Disables camera recording to conserve battery, while radar and light remain active.
  - **Radar Active Mode:** Camera activates and records only when a vehicle is detected by the radar.
- **Video Quality:** You can choose between 1080p (30fps) and 720p video quality. Selecting 720p can extend battery life for longer rides.



Image: Front view of the Garmin Varia RCT716, showing the camera lens and the bright red rear light. This image highlights the primary components responsible for recording and visibility.

Rear Light Operation

The Varia RCT716 features a bright 5-lumen rear light, ensuring good visibility from a long distance. The light operates in conjunction with the radar and camera functions. Specific light modes (e.g., solid, flash) may be configurable via the Varia app or compatible Garmin device, depending on regional regulations (e.g., StVZO approval in Germany may limit flashing modes).

Maintenance

Proper maintenance will extend the life of your Varia RCT716.

- **Cleaning:** Regularly wipe the device, especially the camera lens and light, with a soft, damp cloth. Avoid abrasive cleaners or solvents. Ensure the charging port cover is securely closed to prevent water and dust ingress.
- **Battery Care:** To maximize battery life, avoid storing the device in extreme temperatures. Charge the device regularly, even if not in frequent use, to prevent deep discharge. The battery life is up to 5 hours in continuous light mode with 1080p video recording.
- **SD Card Management:** Periodically review and back up important video files from the 16 GB SD card to a computer. Format the SD card occasionally (via the Varia app or a computer) to maintain optimal recording performance and free up space, ensuring you back up any desired files first.
- **Firmware Updates:** Check the Garmin website or the Varia app for available firmware updates. Keeping your device's firmware up-to-date ensures you have the latest features and performance improvements.

Troubleshooting

If you encounter issues with your Varia RCT716, try the following common troubleshooting steps:

- **Device Not Powering On:** Ensure the device is fully charged. Connect it to a power source and wait a few minutes before attempting to power it on again.
- **Cannot Pair with Device/App:**
  - Ensure the Varia RCT716 is in pairing mode (refer to the setup section).
  - Check that Bluetooth is enabled on your smartphone or that your Garmin device is searching for sensors.
  - Move the Varia RCT716 closer to the pairing device.
  - Restart both the Varia RCT716 and the pairing device.
- **Radar Not Detecting Vehicles:**
  - Ensure the device is mounted correctly and has a clear line of sight to the rear.
  - Check for any obstructions (e.g., saddlebags, clothing) that might block the radar signal.
  - Verify that the radar function is enabled in your paired Garmin device or Varia app settings.
- **Video Recording Issues:**
  - Ensure the SD card is properly inserted and not full.
  - Try formatting the SD card (after backing up important files).
  - Check the camera mode settings in the Varia app to ensure recording is enabled.
- **Device Freezing or Unresponsive:** Perform a soft reset by holding the power button for 10-15 seconds until the device powers off. Then, power it on normally.

For more detailed troubleshooting or persistent issues, please refer to the official Garmin support resources or contact Garmin customer service.

Specifications

Feature	Detail

Model Number	010-02477-00
Dimensions	14 x 9 x 7 cm
Weight	380 g
Colour	Black
Material Type	Plastic
Battery Type	1 Lithium Ion battery (included)
Battery Life (1080p video, continuous light)	Up to 5 hours
Video Capture Resolution	1080p (30fps) or 720p
Rear Light Brightness	5 lumens
Radar Detection Range	Up to 140 meters (153 yards)
Field of View	220 Degrees
Included Components	1 x 16GB SDTM memory card, 1 x USB cable, 1 x Varia RCT716, 1 x quick start guide, 1 x seat post holder
Connectivity	Bluetooth, ANT+ (for Garmin devices)

Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official Garmin website. Garmin provides comprehensive support for its products, including FAQs, software updates, and customer service contact options.

Garmin Support Website: www.garmin.com/support

It is recommended to register your product on the Garmin website to receive important updates and support notifications.

© 2024 Garmin Ltd. All rights reserved. Garmin and Varia are trademarks of Garmin Ltd. or its subsidiaries.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B09XQYD3B6

More documents and user manuals: **https://manuals.plus/**