



Wingman Owner's Manual

CONGRATULATIONS on purchasing the Wingman cyclist visibility device. The Wingman device combines prismatic reflective materials and radar-enhancing corner cube reflector materials and geometry to improve the visibility and detectability of cyclists to drivers and vehicles with functional collision avoidance systems, such as Forward Collision Warning (FCW) and Automatic Emergency Braking (AEB) systems.

Please read this Owner's Manual to ensure your safety and the proper functioning of this product, please carefully read and follow the product fitment, product maintenance, product use and product warning instructions below.

The Wingman packaged product box contains the following: the Wingman device; the mounting strap; a bicycle taillight fixture and a re-charging USB plug; and a Vertex Optimizer stick (attached to the back of the Wingman device).

QR codes provide important product registration, warranty, and product warning information.

Wingman Product Usage & Warnings Guide **(READ CAREFULLY)**

The Wingman product is intended to be used only as a cycling visibility aid and must *not* be used for any purpose other than enhancing the visibility and detectability of a cyclist to drivers and vehicles (when equipped with operational collision avoidance systems such as Forward Collision Warning (FCW) and Automatic Emergency Braking (AEB) functionalities).

When properly installed and maintained, the Wingman product can enhance the visibility and detectability of the cyclist user when sharing the road with drivers and motor vehicles. **However, in no way does Radian and the Wingman product protect the cyclist from collisions with drivers and/or vehicles, it simply makes the cyclist more visible and detectable to the driver and the vehicle's collision avoidance systems (e.g., Forward Collision Warning and Automatic Emergency Braking functionalities).** The cyclist-user, the driver, and the motor vehicle are always

responsible for being attentive, in control, and understanding their situational awareness in order to avoid collisions, near-misses, and falls that are attributable to collision or near-collision scenarios.

Wingman is a supplemental visibility device similar to high visibility cycling apparel or bike lighting fixtures. As such, Wingman is designed to enhance the cyclist-users visibility and detectability to drivers and motor vehicles with functioning collision avoidance capabilities that include Forward Collision Warning and Automatic Emergency Braking functionalities. Wingman is a visibility enhancing device, not a protective device or shield for cyclists who must share the roads with drivers and vehicles.

Cyclist-Users Must Heed the Following General Warnings

Cyclists should always use good judgment and common sense when operating their bicycle, with or without the Wingman attached. Cyclists-users should also make sure their bicycle, and all related parts and hardware are properly installed and maintained. Importantly, this includes the proper installation, mounting, fitment, adjustment, and reflective alignment of the Wingman by the cyclist-user or any other individuals that handle the product (see website and Owner’s Manual for explicit mounting and usage instructions).

Cyclist-Users Misuse Behaviors

The cyclist-user should never purposefully, inadvertently, or negligently ride his/her bicycle fitted with a Wingman device (or otherwise) into the pathway of approaching vehicles, or away from the shoulder of the road, bike lane, bike path, or other area designated, marked or commonly understood areas where cyclists and bicycles are commonly and legally operated. Wingman is designed to provide enhanced visibility and detectability for cyclist-users when riding in the same direction as approaching vehicle traffic. Wingman is not designed or recommended for use in any other scenario or direction, or orientation.

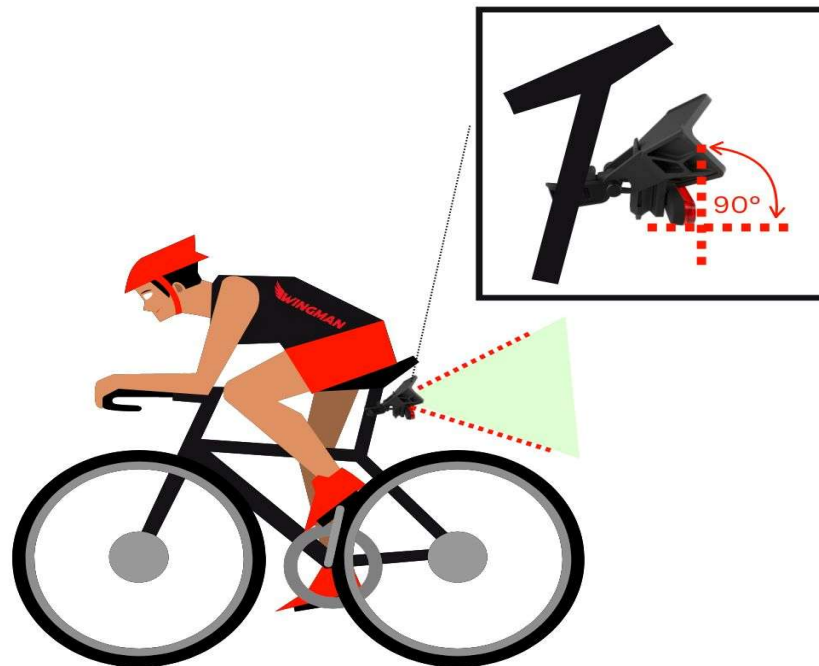
Importantly, the Wingman cyclist visibility device is not a substitute for cyclist-user wearing a bicycle helmet; maintaining CPSC (Section 1512.16) approved traditional light reflectors on all appropriate locations on the cyclist user’s bicycle; or any other safety devices designed to protect cyclists from collisions with drivers and motor vehicles. Radian and Wingman encourages cyclists to always wear a helmet, ride defensively, and utilize other cycling safety products to the greatest extent possible.

Radian and Wingman does not assume any responsibility for any fines, penalties, or damages that may be incurred as a result of any federal, state or local laws or ordinances relating to the use of the Wingman device.

WINGMAN Mounting Instructions (also see Video Instructions at www.radianllc.net)

The Wingman device is to be mounted on the seat post of the bike and facing rearward with the vertex of the device set at a 90-degree angle (see illustrations 1,2, and 3). Use the Vertex Optimizer Stick (included) to set the Wingman at the optimal orientation. Wingman is ineffective if not set at 90-degree angle orientation.

Illustration 1 (Setting the Proper Orientation Angle for Wingman)



Illustrations 2,3,4 and 5 (Vertex Optimizer Stick)

Use the Vertex Optimizer Stick (Included with BiKube) to set the optimal angle orientation (90-degrees). Insert the Vertex Optimizer Stick (illustrations 2,3,4 and 5) inside the BiKube and touch the center-point of the vertex. When the bubble-level is centered in the vertex and between the two vertical lines, adjust the set screws to lock-in the proper angle orientation. Check the optimal angle orientation before each ride with Vertex Optimizer Stick to ensure maximum reflectivity.



DIY Method for Vertex Optimizer Technique--Important

If you misplace or otherwise lose access to the Vertex Optimizer Stick (included with Wingman device) you can still adjust the reflective angle orientation to 90 degrees for rear-approaching vehicles by simply using your thumb and index finger to create a 90 degree angle and insert your index finger into the vertex of the Wingman and point your thumb downward (**see photo sequence below**) and adjust the side knobs to set the appropriate 90 degree angle. It is important to check and set the optimal angle orientation before each ride to ensure maximum reflectivity, visibility, and detectability.

DIY Vertex Optimization Process





Successful DIY Vertex Optimization



Failed Vertex Optimization — Requires Re-Set (see above)



Care and Maintenance of the Wingman

- Do not store the Wingman where prolonged exposure to extreme temperatures can occur.
 - Avoid chemical cleaners and solvents that can damage plastic components, the rubber mount strap, or the reflective material embedded in the Wingman device.
 - To clean the Wingman device, use a clean damp cloth and household soap (if necessary) and gently wipe away mud, dust, dirt, or any other road debris that may inhibit the reflective material from being fully visible to drivers and vehicles.
 - Avoid using abrasive cloth or any other material that could scratch the reflective material or degrade its reflectivity.
 - Regularly inspect the Wingman for wear or damage. Replace if reflective material, mounting brackets and strap, or device structure is compromised.
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The Light Fixture Specifications

The Wingman device comes with a rear light fixture mounted on the device. We highly recommend using the light fixture or a suitable replacement light fixture when using the Wingman device for best results (both day and night). The light fixture can be removed from the Wingman by gently pressing the tab to release and slide the light out for re-charging, removal or replacement with other light fixtures that fit the mount bracket configuration. The light fixture is LED, USB rechargeable (Type C USB charge cord is included in box), and has a luminance of 30Lm (lumens) at maximum brightness. The light fixture has a rechargeable 3.7V 710mAh battery, with a 2.5 hours charging time. It has a IP44 water resistance rating and a low battery indicator. It has six button accessible lighting modes: *Steady/Half Steady/Flash/Half Flash/Rapid Flash/Pulse Flash*. Replacement light fixtures can be purchased on the website under the parts and accessories tab.

Troubleshooting

- **Loose or Non-optimized Wingman Attachment to Seat Post:** If the device is loose, check the set screw knobs on the sides of the Wingman device and ensure they are properly tightened and set at the proper 90-degree angle orientation.
- **Decreased Visibility and Detectability:** Clean the reflective material with damp non-abrasive cloth to maintain optimal reflectivity to vehicles approaching from behind.
- **Battery on Light Fixture:** Make sure the battery is fully re-charged before each ride.

Wingman Product Warranty Policy

The **Radian Wingman** cyclist visibility devices carry a one (1) year product warranty from the original purchase date to the original owner/purchaser (proof of purchase is required). This warranty covers materials and manufacturing flaws on the device body, the reflective materials, the mounting apparatus, and any associated sub-components. **Submission of a completed product registration form (via on-line link and in the product packaging) is required for activation of the Wingman product warranty.** The lighting fixture included with the Wingman device is manufactured by a third-party company. Radian makes **no warranties**, express or implied, with respect to the performance, quality, reliability, or safety of this light fixture, or any other light fixture, or any other third-party component, attached or used in conjunction with the Wingman product. Radian disclaims any liability for damages, malfunctions, or failures arising from or related to the third-party taillight, including but not limited to improper performance or defects. This **no warranty** policy extends to any aftermarket lighting fixture or other device attached to, or used in conjunction with, the Wingman device during its use.

Matters not covered by this warranty include damage caused by normal wear and tear, misuse, improper installation, cycling-related crashes or similar incidents that impact the products structural integrity, reflective properties, or proper functioning, theft, abuse, alteration, or neglect.

The **Wingman** product is intended to be used only as a cycling visibility aid and must not be used for any purpose other than enhancing the visibility and detectability of the cyclist-user to drivers and vehicles (when equipped with operational collision avoidance systems and sensors such as Forward Collision Warning and Automatic Emergency Braking functionalities).

This warranty is void in its entirety by any modification or alteration of the warranted product. This warranty is expressly limited to the repair or replacement of a defective item, and repair or replacement is the sole remedy of the warranty.

This warranty extends from the date of purchase, applies only to the original owner/purchaser, and is not transferrable. This warranty only applies to products purchased directly from **Radian** and **Wingman**, or through authorized dealers or distributors.

Radian and **Wingman** makes no warranty that the **Wingman** product will protect the cyclist user from any and all collisions, near-misses, falls, (including any collisions with other cyclists) from vehicle-related incidents with drivers or motor vehicles or any other objects (static or dynamic) operating or encountered on or adjacent to roadways, sidewalks, roundabouts, cross walks, intersections, highways, bridges, tunnels, pathways, or any other areas where bicycles are permitted to operate.

Warranty Claim Procedure

To obtain warranty service, you must:

1. Contact **Wingman Customer Service** via email at support@radianllc.net. Provide your proof of purchase and a detailed description of the defect. We will contact you with any additional questions or need for additional information.
2. Ship the Product, at your expense, to the address provided by Customer Service. Ensure the Product is safely packaged and includes a copy of your proof of purchase and contact information.

Limitation of Liability

To the extent permitted by law, Wingman's liability is limited to the repair or replacement of the Product, and under no circumstances shall Wingman be liable for any incidental, special, indirect, or consequential damages arising from the use or inability to use the Product.

Governing Law

This limited warranty shall be governed by the laws of the State of Texas, United States, excluding its conflict of laws principles

Product Registration Form

Wingman Cyclist Visibility Device

Thank you for choosing Wingman! Registering your product ensures you receive updates, warranty benefits, and the best support experience.

Customer Information

Full Name: _____

Email Address: _____

Phone Number: _____

Address:

- **Street Address:** _____
- **City:** _____
- **State/Province:** _____
- **ZIP/Postal Code:** _____
- **Country:** _____

Product Information

Model Number: **Wingman X-1** _____

Serial Number (found on the device): _____

Purchase Date: _____

Retailer Name/Location: _____

Do you want to receive updates and special offers from Wingman?

- Yes, sign me up for emails.
- No, I prefer not to receive emails.

Summary of Warranty Terms

Wingman provides a **1-year limited warranty** from the date of purchase. To activate your warranty, you must complete this form within **30 days** of purchase. Please see the owner's manual or the Radian Wingman website (www.radianllc.net) for the full Warranty details.

By registering this product, you agree that any disputes arising out of or relating to this product, including warranty claims and product liability claims, will be resolved exclusively through binding arbitration, administered under the rules of the American Arbitration Association. Arbitration will take place in Texas, and you waive the right to participate in class actions or jury trials. This provision is governed by the Federal Arbitration Act.

By registering this product, you acknowledge that you have read and understand the product warnings and the instructions on the proper use of the Wingman device contained in the owner's manual included with the product and available on the Radian website (www.radianllc.net).

Submit Your Registration

Signature

- **Signature:** _____
- **Date:** _____

You can submit this form by:

- **Online:** Visit www.radianllc.net/support

Privacy Notice: Your information will only be used to process your product registration and provide updates related to Wingman. We will never share your personal details without your consent.



**CALIFORNIA PROPOSITION 65
WARNING LABEL**