



Brilliant Aiming Solutions™



# Trijicon Huron® Trijicon Ascent®

Quick Reference Guide



# Warnings & Cautions ---

## **WARNING**

Before installing the optic on a firearm, ensure the firearm is UNLOADED.

## **CAUTION**

When mounting this Trijicon® product onto the rail of a firearm, do not tighten the mount screws beyond the recommended torque setting provided by the mount manufacturer. Damage may occur to the optic and/or zero retention may be negatively affected.

## **CAUTION**

DO NOT allow harsh organic chemicals such as acetone, trichloroethane, or other cleaning solvents to come in contact with this Trijicon® product. They will affect the appearance, but not the performance.

# Science of Brilliant®

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## ALASKA-TO-AFRICA TEMPERATURE TESTED

To ensure each family of riflescopes is ready for whatever our users put them through, we perform "Alaska to Africa" temperature shock tests with temps from -20°F to 140°F.



## IMMERSION TESTED

Each model is immersion tested, and every riflescope is dry-nitrogen filled to eliminate internal fogging.



## SOLID ZERO TESTED

Every model is subjected to 5,000 consecutive rounds, confirming no reticle shift has occurred.



## SHOCK & VIBRATION TESTED

All models are tested to withstand recoil and vibrational stresses without malfunction, so it can take a beating before, during and after use.



## DROP TESTED

We don't believe every drop should be followed by a warranty claim, so we drop test each riflescope design to check durability.

# Introduction

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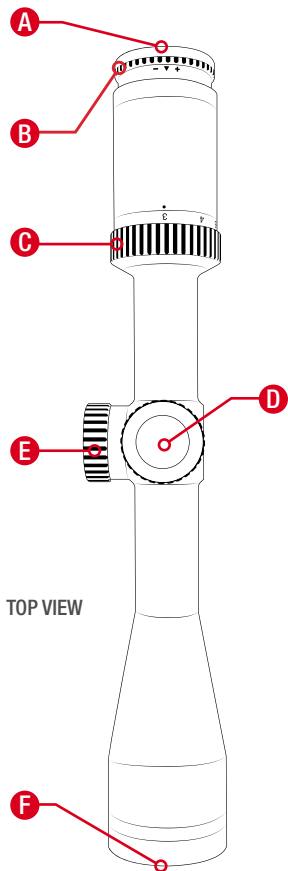
Every Trijicon Huron® and Ascent® riflescope comes with high-quality glass, proven precision, and rugged construction – to provide a lifetime of confident use in the field and under low light conditions.

Each model features:

- Fully multi-coated broadband anti-reflective lenses with enhanced scratch resistance
- Precise, crisp adjusters
- Second focal plane reticle
- Highly durable, lightweight aircraft-grade aluminum housing
- Waterproof to 10 ft.
- Dry-nitrogen filled to prevent internal fogging

# Adjustment Procedures

- A** Eyepiece Lens
- B** Diopter Adjuster
- C** Magnification Dial
- D** Elevation Adjuster
- E** Windage Adjuster
- F** Objective Lens



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## **ZEROING THE RIFLESCOPE**

The riflescope is zeroed using the adjusters located under the adjuster caps (D / E). There are two adjusters, one for windage and one for elevation. The arrows on the adjusters indicate direction to turn the adjusters in order to change bullet impact. For example, using the  $\frac{1}{4}$  MOA per click adjuster, if the point of impact is two MOA to the left of the aiming point, the windage adjuster should be moved eight clicks in the direction marked R (Right). This will move the bullet impact two MOA to the right and onto the point of aim. Similarly, if the bullet impact is striking low on the target, move the elevation adjuster in the Up direction. Once the optic's elevation and windage is zeroed, pull the adjusters up. The dial will spin freely. Then, push down at the "zero" position. This allows users to 'dial-in' windage and elevation changes as needed, while providing a useful reference point.

## **DIOPTER ADJUSTER (EASY FOCUS EYEPIECE)**

The Diopter Adjuster (B) allows the user to quickly match the user's prescription. Adjustments are made by simply turning the Diopter Adjuster in the direction that brings the reticle into focus. An indicator (+ / -) is a useful reference point for returning the focus to your customized position.

# Adjustment Procedures ---

## MAGNIFICATION DIAL

Trijicon Huron and Ascent riflescopes are available in various ranges of magnification. Magnification is selected by rotating the Magnification Dial (C), aligning the white indicator marking with the numbers on the riflescope housing.



# Huron<sup>®</sup> Characteristics

|  | <b>1-4x24<br/>HR424 Series</b> | <b>1-6x24<br/>HR624 Series</b>  |
|--|--------------------------------|---------------------------------|
| Magnification Range                      | 1 - 4x                         | 1 - 6x                          |
| Objective Lens Size                      | 24mm                           | 24mm                            |
| Eye Relief                               | 2.6 - 3.9 in.<br>65 - 98mm     | 3.5 - 3.9 in.<br>88 - 100 mm    |
| Exit Pupil                               | .69 - .2 in.<br>17.5 - 5.1mm   | 0.47 - 0.16 in.<br>12.0 - 4.1mm |
| Field of View<br>(Degrees)               | 18.0° - 4.6°                   | 21.4° - 3.6°                    |
| Field of View<br>(@ 100 yd.)<br>(@ 100m) | 95.0 - 24.2 ft.<br>31.7 - 8.1m | 113.4 - 18.8 ft.<br>37.8 - 6.3m |
| Adjustments                              | 1/4 MOA per Click              | 1/4 MOA per Click               |
| Total Adjustment<br>Range Windage        | 100 MOA                        | 100 MOA                         |
| Total Adjustment<br>Range Elevation      | 100 MOA                        | 100 MOA                         |
| Finish                                   | Satin                          | Satin                           |
| Dimensions<br>(L x W x H)                | 10.4 x 2.0 x 1.9 in.           | 10.9 x 2.0 x 1.9 in.            |
| Weight                                   | 15.9 oz.                       | 17.8 oz.                        |
| Tube Diameter                            | 30mm                           | 30mm                            |



# Huron<sup>®</sup> Characteristics

|                                       | <b>2.5-10x40<br/>HR1040 Series</b> | <b>3-9x40<br/>HR940 Series</b> |
|---------------------------------------|------------------------------------|--------------------------------|
| Magnification Range                   | 2.5 - 10x                          | 3 - 9x                         |
| Objective Lens Size                   | 40mm                               | 40mm                           |
| Eye Relief                            | 2.4 - 3.3 in.<br>62 - 83mm         | 2.5 - 3.7 in.<br>63 - 93mm     |
| Exit Pupil                            | .58 - .16 in.<br>14.8 - 4.0mm      | .52 - .13 in.<br>13.3 - 4.5mm  |
| Field of View (Degrees)               | 7.66° - 1.92°                      | 6.45° - 2.15°                  |
| Field of View (@ 100 yd.)<br>(@ 100m) | 40.2 - 10.0 ft.<br>13.4 - 3.3m     | 33.8 - 11.3 ft.<br>11.3 - 3.8m |
| Adjustments                           | 1/4 MOA per Click                  | 1/4 MOA per Click              |
| Total Adjustment Range Windage        | 70 MOA                             | 40 MOA                         |
| Total Adjustment Range Elevation      | 70 MOA                             | 40 MOA                         |
| Finish                                | Satin                              | Satin                          |
| Dimensions (L x W x H)                | 12.55 x 2.26 x 2.26 in.            | 12.23 x 2.14 x 2.14 in.        |
| Weight                                | 18.2 oz.                           | 15.8 oz.                       |
| Tube Diameter                         | 30mm                               | 1 in.                          |



|  | <b>3-12x40<br/>HR1240 Series</b> | <b>4-16x50<br/>HR1650 Series</b> |
|--|----------------------------------|----------------------------------|
| Magnification Range                      | 3 - 12x                          | 4 - 16x                          |
| Objective Lens Size                      | 40mm                             | 50mm                             |
| Eye Relief                               | 2.2 - 3.2 in.<br>55 - 81mm       | 3.1 – 3.8 in.<br>78 – 96mm       |
| Exit Pupil                               | .52 - .13 in.<br>13.2 - 3.4mm    | 0.33 – 0.12 in.<br>8.5 – 3.1mm   |
| Field of View<br>(Degrees)               | 6.93° - 1.74°                    | 5.4° – 1.4°                      |
| Field of View<br>(@ 100 yd.)<br>(@ 100m) | 36.3 - 9.1 ft.<br>12.1 - 3.0m    | 28.5 – 7.1 ft.<br>9.5 – 2.4m     |
| Adjustments                              | 1/4 MOA per Click                | 1/4 MOA per Click                |
| Total Adjustment<br>Range Windage        | 70 MOA                           | 70 MOA                           |
| Total Adjustment<br>Range Elevation      | 70 MOA                           | 70 MOA                           |
| Finish                                   | Satin                            | Satin                            |
| Dimensions<br>(L x W x H)                | 12.55 x 2.26 x 2.26 in.          | 14.5 x 2.7 x 2.1 in.             |
| Weight                                   | 17.8 oz.                         | 24.2 oz.                         |
| Tube Diameter                            | 30mm                             | 30mm                             |



# Ascent® Characteristics

|  | <b>1-4x24<br/>AT424 Series</b> | <b>1-6x24<br/>AT624 Series</b>  |
|--|--------------------------------|---------------------------------|
| Magnification Range                      | 1 - 4x                         | 1 - 6x                          |
| Objective Lens Size                      | 24mm                           | 24mm                            |
| Eye Relief                               | 2.6 - 3.9 in.<br>65 - 98mm     | 3.5 - 3.9 in.<br>88 - 100 mm    |
| Exit Pupil                               | .69 - .2 in.<br>17.5 - 5.1mm   | 0.47 - 0.16 in.<br>12.0 - 4.1mm |
| Field of View<br>(Degrees)               | 18.0° - 4.6°                   | 21.4° - 3.6°                    |
| Field of View<br>(@ 100 yd.)<br>(@ 100m) | 95.0 - 24.2 ft.<br>31.7 - 8.1m | 113.4 - 18.8 ft.<br>37.8 - 6.3m |
| Adjustments                              | 1/4 MOA per Click              | 1/4 MOA per Click               |
| Total Adjustment<br>Range Windage        | 100 MOA                        | 100 MOA                         |
| Total Adjustment<br>Range Elevation      | 100 MOA                        | 100 MOA                         |
| Finish                                   | Matte                          | Matte                           |
| Dimensions<br>(L x W x H)                | 10.4 x 2.0 x 1.9 in.           | 10.9 x 2.0 x 1.9 in.            |
| Weight                                   | 15.9 oz.                       | 17.8 oz.                        |
| Tube Diameter                            | 30mm                           | 30mm                            |



|  | <b>3-12x40<br/>AT1240 Series</b> | <b>4-16x50<br/>AT1650 Series</b> |
|--|----------------------------------|----------------------------------|
| Magnification Range                      | 3 - 12x                          | 4 - 16x                          |
| Objective Lens Size                      | 40mm                             | 50mm                             |
| Eye Relief                               | 2.2 - 3.2 in.<br>55 - 81mm       | 3.1 – 3.8 in.<br>78 – 96 mm      |
| Exit Pupil                               | .52 - .13 in.<br>13.2 - 3.4mm    | 0.33 – 0.12 in.<br>8.5 – 3.1mm   |
| Field of View<br>(Degrees)               | 6.93° - 1.74°                    | 5.4° – 1.4°                      |
| Field of View<br>(@ 100 yd.)<br>(@ 100m) | 36.3 - 9.1 ft.<br>12.1 - 3.0m    | 28.5 – 7.1 ft.<br>9.5 – 2.4m     |
| Adjustments                              | 1/4 MOA per Click                | 1/4 MOA per Click                |
| Total Adjustment<br>Range Windage        | 70 MOA                           | 70 MOA                           |
| Total Adjustment<br>Range Elevation      | 70 MOA                           | 70 MOA                           |
| Finish                                   | Matte                            | Matte                            |
| Dimensions<br>(L x W x H)                | 12.55 x 2.26 x 2.26 in.          | 14.5 x 2.7 x 2.1 in.             |
| Weight                                   | 17.8 oz.                         | 24.2 oz.                         |
| Tube Diameter                            | 30mm                             | 30mm                             |



# Maintenance

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This Trijicon® product requires very little maintenance. If the lenses become dirty, wash using fresh water and a soft clean cloth.

Remove all foreign matter from the lens surface fully before wiping them with a soft cloth. The outside lenses may fog over in cold weather. Remove fog by using a dry, clean soft cloth.

Anti-fog solutions can be applied if desired.

# Troubleshooting

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For additional information, product downloads, or answers to Frequently Asked Questions (FAQ) visit [trijicon.com](http://trijicon.com). Please contact our Customer Service Department for other product service inquiries at 1-800-338-0563 or email us at [info@trijicon.com](mailto:info@trijicon.com).



# Limited Lifetime Warranty

The original owner of the Trijicon® product registered with the warranty card is entitled to repair or replacement (at our option) of the registered item if it should fail due to defects in material or workmanship during normal use. This warranty specifically applies to the optical systems and metal structure of the product. If repair is necessary, please contact our Service and Repair Department for return instructions. This warranty does not apply to defects caused by anything which is deemed abnormal, abusive, or improper including any fault resulting from an accident or improper service. Please note that the manufacturer's warranty will be void and the product cannot be serviced if it is exported from the United States in violation of U.S. Export Control Laws and Regulations. Any attempt at disassembly or repair will annul this warranty. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



**[Trijicon.com/Huron](https://www.Trijicon.com/Huron)**  
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