



OWNER'S MANUAL

RIFLE SCOPES/BINOCULARS/CROSSFIELD



HUSKEMAW.COM

1-866-754-7618

CODY, WY



I have used Huskemaw Scopes on my long range rifles for over 10 years and wouldn't use anything else. These scopes are crystal clear and very simple to use with the quick dial turrets and built in wind compensation makes a deadly combination. Thank you Best of The West!

Bill Gaynor



It's my first Antelope ever and was taken in southern Wyoming. I used my Best of the West Hunter Elite chambered in 7mm Rem Mag topped with a 5-20x50 Huskemaw Blue Diamond Scope. I ranged him at 457 yards and dialed my turret to 450 yards and dropped him with 1 shot. With this shooting system "one and done" is how the story always ends. Thanks a bunch to you and the rest of the crew at BOTW for everything you guys do and for customer service that is second to none!

Jordan Rollins



When you are setting up for a shot on a trophy animal and precious seconds count, I trust my Huskemaw Optics and RFBC turrets it's as simple as range, dial, hold for windage, and shoot. Don't miss your shot opportunity fumbling through ballistic drop charts or guessing holdover.

Nick Saner



TABLE OF CONTENTS

SECTION A

INTRODUCTION TO YOUR HUSKEMAW SCOPE

Contact information & available resources.....	2
The Huskemaw Advantage.....	3-4
Info on Your Huskemaw	5
Scope Mounting.....	6
Lapping the Rings.....	7
Reticle Alignment.....	7
Eye Relief.....	8
Bore Sighting	8
Adjusting Magnification	8
Focusing the Reticle.....	9
Parallax Adjustment.....	10
Windage and Elevation Adjustment	11

SECTION B

BALLISTICS AND DATA COLLECTION

Barrel Break In	12
Collecting Data.....	13
True BC Program.....	14-16
Range Card	17
Turret Contact Info.....	18
The RFBC Turret	19
Setting Your Zero Index Ring.....	20
Wind Hold Compensation	21
Doping the Wind.....	22
Mirage and Relative Wind Speed.....	23
Rangefinding.....	23
Huskemaw Tips and Techniques	24

SECTION C

SPECIFIC OPTICS MODELS

Bino Specs	25
Tactical 1-6 Specs	26-27
BD 3-12 Specs.....	28-29
BD 4-16 Specs.....	30-31
BD 5-20 Specs.....	32-33
Tactical 5-30 Specs.....	34-35
Crossfield 3x32 Specs	36-39

SECTION D

SUPPORT

Returned Scope Test Procedures	39
Warranty and Repair	40

INDEX OF FIGURES AND TABLES

Figure 1. Scope Features and Locations	5
Figure 2. Scope Mounting Tools.....	6
Figure 3. Lapping Rings and Leveling Scope	7
Figure 4. Magnification Ring	8
Figure 5. Unfocused and properly focused reticle	9
Figure 6. Parallax Error	10
Figure 7. Parallax Adjustment Dial	10
Figure 8. Windage and Elevation	11
Figure 9. Barrel Break In	12
Figure 10. True BC Ballistics Form Example	14
Figure 11. True Ballistics Load Data.....	14
Figure 12. True Ballistics Sighting Data	15
Figure 13. True Ballistics Conditions	15
Figure 14. True Ballistics True BC	16
Figure 15. Range Card & Ballistics/Drop Chart	17
Figure 16. Dialing the RFBC Turret.....	19
Figure 17. Setting Your Zero Index Ring	20
Figure 18. Wind Hold Example	21
Figure 19. Wind Rosette	22
Figure 20. Mirage Example	23
Figure 21. Tactical 1-6x24 Reticle	27
Figure 22. BD 3-12x42 Reticle	29
Figure 23. BD 4-16x42 Reticle	31
Figure 24. BD 5-20X50 Reticle	33
Figure 25. Tactical 5-30X56 Reticle and Internal Bubble Level	35
Figure 26. Crossfield 3X32 Reticle	37
Figure 27. Scope Test Example	39

Please visit our website Huskemaw.com and select the “VIDEO” tab, or our Youtube.com channel The Best of the West, and search for “Huskemaw Optics Scope Mount Instructions” to find instructional videos that coordinate with this manual.



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Congratulations and thank you for purchasing the most technologically advanced rifle scope and turret system in the industry. We anticipate that you will enjoy many years of precision long range shooting with a Huskemaw mounted on your favorite rifle. The “Huskemaw Advantage” is best described as the most precise, quick and user friendly system pre-validated in a known environment. The Huskemaw scope is built to withstand years of use and provide reliable functionality in all field conditions. The various attributes of your Huskemaw scope are outlined below:

- **HUNT SMART RETICLE:** The design is simple, yet functional used in tandem with the **BDC** turrets. The same principals apply to all HO scopes models however differences do exist and are explained in detail in this manual. The wind holds with corresponding MOA values are unique to Huskemaw and are patent protected. This key asset is utilized by dialing to a known distance, then holding for wind deflection as indicated on the turret directly above the elevation number. It is as simple as ranging for distance, dial appropriate yardage and hold for wind as applicable.
- **CUSTOMIZED HUSKEMAW BDC TURRET:** This turret is an elevation turret which is calibrated in yards/meters rather than the standard MOA indicator marks. This turret is both simple and precise because it has been validated with actual drop data that has been shot in the field in a known environment. The precision aspect of each turret is proven by utilizing a number of factors to include elevation, temperature, true ballistic coefficient and muzzle velocity. In summary, every turret is laser engraved to match the actual trajectory of an individual rifle and load based on the click value of the scope.
- **WINDAGE ENABLED:** As mentioned above, the Huskemaw **BDC** (bullet drop compensator) turret is the only windage enabled turret in the industry. Huskemaw Optics uses patented wind compensation technology and when applied to the Hunt Smart Reticle becomes a **RFBC** (Rapid Field Ballistic Compensator) turret. Without question, this is the most reliable, quick and precise tool for wind compensation in a variety of field conditions. Huskemaw Optics has available a DVD “How To Dope The Wind Beyond Belief” that provides many tips, techniques and tools for gaining knowledge to become proficient at long range in wind.
- **TRUE BC/FIELD DATA COLLECTION PROCESS:** U.S. Patent 9,915,503 B2. This program was the first to use an online process for ordering a turret. The process is explained in detail in section 2 of this manual. As a precursor to more detail, the obtainment of actual drop data by shooting in the field in a known environment provides the necessary

data for your windage enabled **RFBC** turret. Suffice to say, Huskemaw will engrave your turret to match the exact ballistic profile of that rifle and load. This creates a turret that is simple, yet precise in a variety of field applications and environments.

Now that we have established several of the factors that give you “The Huskemaw Advantage”, let’s briefly examine key product features and multiple product offerings currently available. Huskemaw currently has 5 scope models (see specifications) in Section 3. These product offerings address every possible hunting/shooting situation for precision close and long range applications.

HUSKEMAW RIFLE SCOPE FEATURES:

- Extreme durability utilizing 30mm and 34mm one-piece main tubes
- Blue Diamond lens coatings for superior light transmission and color separation
- Precision machined internal components for precise adjustment and repeatability
- Highly functional power ranges for variable field applications
- Proprietary adhesive and bedding of individual lenses
- $\frac{1}{3}$ MOA click values for maximizing elevation and wind compensation per revolution. Exception: 1-6x24 utilizes $\frac{1}{2}$ MOA click values

The process of familiarizing yourself with your Huskemaw scope and collecting field data is supported as follows:

- Huskemaw Rifle Scope Owner’s Manual
- Huskemaw Instructional Video available on the Best of the West Youtube.com channel, search for “Huskemaw Optics Scope Mount Instructions”
- Huskemaw Customer Support

The Huskemaw team is continually developing new and innovative products that incorporate practical solutions to varying field conditions. An example of this is our new “interlocking turret” which can be configured to each customer’s specific needs. We encourage everyone to spend time at the range becoming familiar and proficient with their shooting system. Your Huskemaw scope will open up a whole new world in your hunting success. The ethics of long range hunting has been and will continue to be debated on a number of fronts. Our take is that each hunter must establish their own ethical boundaries and become a more precise shooter, regardless of shot distance.

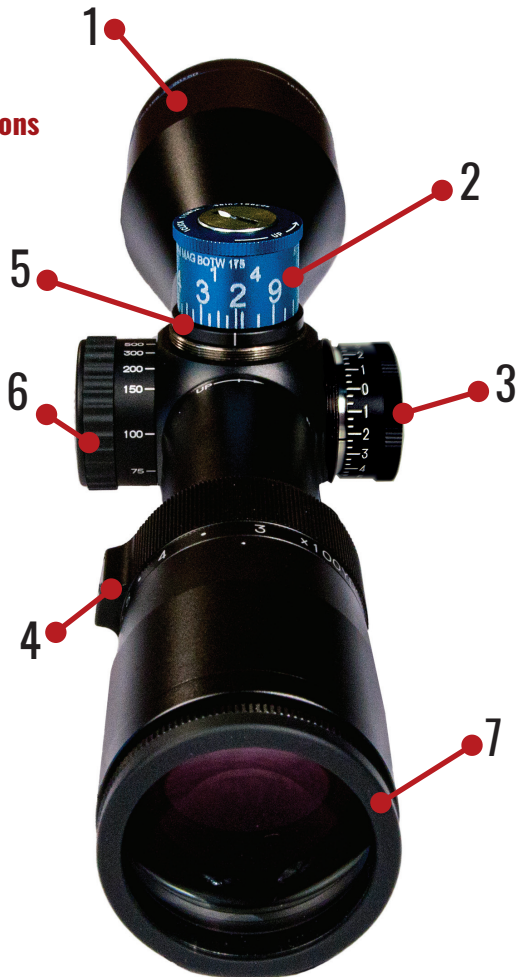
INFO ON YOUR HUSKEMAW SCOPE

All Huskemaw scopes have the same basic features throughout. They are as follows.

Every scope has an Objective Lens, an **RFBC** Turret, Wind Adjustment, a Magnification Ring, a Zero Index Ring, and a Focus Ring. Refer to the figure below for locations of these.

Figure 1. Scope Features and Locations

1. Objective Bell/Lens
2. RFBC Turret
3. Windage Adjustment
4. Magnification Adjustment
5. Zero Index Ring
6. Parallax Adjustment
7. Focus Adjustment



MOUNTING YOUR SCOPE

Now that we have an idea on the basics of your scope lets go briefly over the process of mounting it to your firearm. To properly mount your Huskemaw Scope you will need scope rings, a torque wrench, lapping bar, thread lube, and reticle leveling tool. These should all be available at most gunshops and/or optics dealers for purchase. If not contact us at Huskemaw Optics 866-754-7618.

To start, check the screw holes on the action for debris and clean if necessary. Most ring and base screws are pre lubricated, supplementing the lubrication is always advised. In addition to the threads lubricate the shoulder of the screw head that contacts the scope base. The amount of torque varies by type and size of the screw. Contact the manufacturer for exact specifications.

We utilize blue Loctite with initial installation of bases. Most base screws will need to be tightened to 30-40 in/lbs to prevent loosening. Rings are torqued to 20 in/lbs, please check manufacturer's specifications to prevent damage to the scope tube. A mild thread locking agent could be used at this stage as the pre-load on the ring screws is not enough to absolutely prevent loosening.

Figure 2. Scope Mounting Tools



RING LAPPING

For aluminum rings, it's recommended to lap the bottom half of the horizontally split ring for at least 75% contact. For steel rings, lap both the top and bottom half of the rings. Lapping the rings increases surface contact for a sturdy, slip-free mount. Rings that are not lapped place stress on the scope body and internal scope components.

Figure 3. Lapped Rings and Leveling scope



RETICLE ALIGNMENT

When using BDC-type compensation to shoot long ranges, cant and misalignment of the elevation reticle can cause significant error. A scope or reticle leveling tool will promote proper alignment before tightening the scope rings. Just follow the manufacturer's instructions.

EYE RELIEF

There are nearly 4 inches of eye relief in your Huskemaw Scope. Use as much eye relief as possible for your scope by moving it as far forward as possible in the rings. It is also recommended to use rings that mount your scope as low as possible without contacting the barrel to ensure a consistent cheek weld for accurate shooting.

BORE SIGHTING

Before taking the first shot some time spent bore sighting will save time and money not to mention frustration. Various tools are available to perform a bore sight on your firearm package, read and follow their instructions to achieve the best results.

If by chance tools are not available use this alternative method. Set up a target at 25 or 50 yards. Set up your gun on a solid rest and remove the bolt. The idea is to center the target in the very center of the barrel. Try centering the circle formed by the muzzle end inside of the circle formed by the chamber and throat. Once the bore is centered, just align the scopes reticle on the same target. Take a shot and make fine adjustments. Take three shots at 100 yards and adjust as needed.

ADJUSTING MAGNIFICATION

To adjust the magnification of your Huskemaw scope turn the adjustment ring clockwise or counterclockwise until the magnification value corresponds with the indicator.

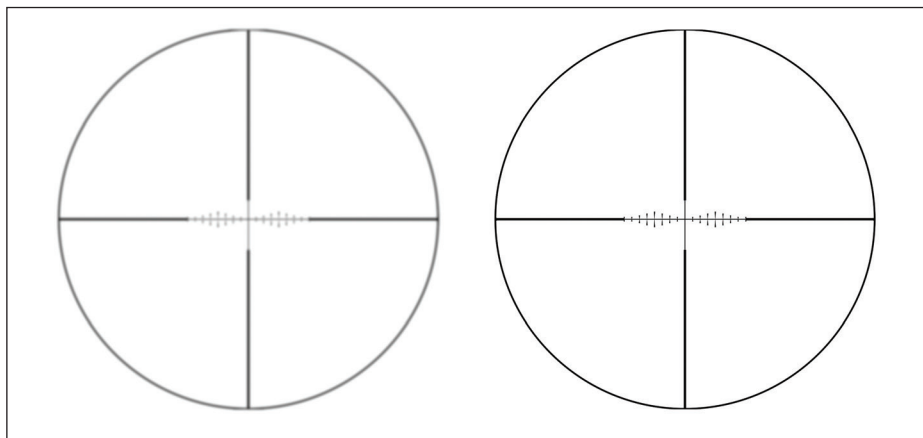
Figure 4. Magnification Ring



FOCUSING THE RETICLE

The Fast Focus Eyepiece allows for simple and precise focus control of the Reticle. It is not intended to focus on the target. An easy method of adjustment is to obtain a view through your scope that does not have a lot of contrast, blue sky, painted wall etc. , and then turn the adjustment ring until the reticle appears sharp and defined. A helpful pointer is to look away from the scope, let your eye relax, and then quickly check the reticle again for definition.

Figure 5. Unfocused and properly focused reticle

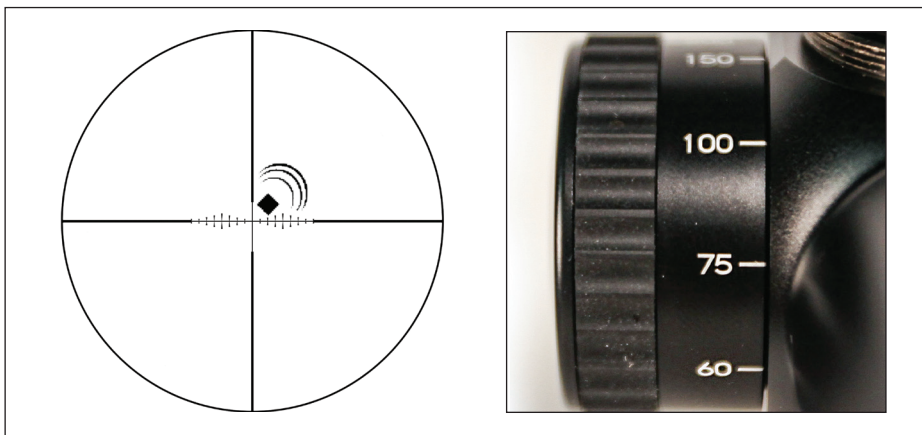


PARALLAX ADJUSTMENT

Parallax is the apparent movement of objects within the field of view in relation to the scopes reticle. To check the parallax error of a scope sight, select an object at normal shooting distance and move your head/eye side to side or up and down while keeping the rifle steady on the target. The apparent movement of the reticle in relation to the target is the parallax.

To adjust the parallax on your Huskemaw scope turn the parallax adjustment knob either clockwise or counterclockwise until there is no apparent movement in relation to the target and the reticle. A fast way to get a basic set on the parallax is to match the number on the parallax knob to your given distance

Figure 6 & 7. Parallax error and parallax adjustment dial.



Please visit our website Huskemaw.com and select the “VIDEO” tab, or our [Youtube.com](https://www.youtube.com/channel/UC...) channel The Best of the West, and search for “Huskemaw Optics Scope Mount Instructions” to find instructional videos that coordinate with this manual.

WINDAGE AND ELEVATION ADJUSTMENTS

Your scope will arrive with an elevation-data collection turret located on the top of the scope marked in clicks. Each click will represent $\frac{1}{3}$ Minute of Angle or MOA. The only scope model exception is the 1-6x24 Tactical which has $\frac{1}{2}$ MOA clicks. Consult the specification section of this manual for specific details on your scope model. The data collection turret is designed for the purpose of acquiring shot data to be used to create your custom turret. The windage knob, located on right side of your scope is marked in Minutes of angle ranging from 0-10-0. The windage turret must be set to zero if you choose to dial wind rather than hold wind in the reticle.

Figure 8.

Click calibrated Windage Knob (0-10-0)



$\frac{1}{3}$ MOA calibrated Elevation Turret (0-60)



BARREL BREAK IN

The BC Calculator requires an average chronographed velocity to create the most accurate turret. In our experience, velocity variations can be as much as 75 fps with the first 100 rounds through a new barrel. For this reason, it is recommended to shoot 30 to 50 rounds to stabilize the velocity before gathering data for the true BC process. There is much information available on break-in procedures, however we have found this simple process will help. Shoot once and clean removing carbon and copper repeating this process 10 times. Repeat again shooting three shot groups and cleaning it 5 times. At last, shoot 5 shot groups and clean and shoot until velocities stabilize. After barrel is broken-in, determine the load that presents the tightest group. Proper barrel break-in is simple but important for precision long range shooting.

Figure 9. Barrel Break In



COLLECTING DATA FOR YOUR CUSTOM TURRET

Our “True BC” Trade Marked/Service Marked process requires several pieces of external ballistics data. Once collected the most accurate bullet drop compensating turret can be created. The result will be a windage enabled **RFBC** Turret. The process of collecting data requires several groups at various ranges to gather correct data. The following information will be used

1. Chronograph Velocity (Min 5 Shots)
2. Altitude at collection sight
3. Temperature at collection sight.
4. A defined point of zero (Usually 200 Yards)
5. A Mid-Range Click Value (400-600 Yards)
6. A Long Range Click Value (800-1,000 Yards)

Note: The Long Range Target should be at least 75% of your desired longest range.

Once this information has been collected the process of creating an **RFBC** turret can be started for ANY altitude or temperature. An example could be that the data was collected at sea level and your hunting tag is for the Rocky Mountains at around 7000 ft. Your turret could then be calibrated to perform at that altitude and air density. Remember that the less dense the air the flatter the trajectory. It is important to use the correct turret for your area plus or minus 2000 ft. However, temperature changes can offset elevation changes, therefore, an 8000 foot 40 degree turret will have very little deviation from a 6000ft 80 degree turret.

TRUE BC PROGRAM

A significant benefit to using our online BC Calculator is the drop chart and range card. Both can be created on our program found at huskemawoptics.com. Find and click on the BC calculator tab at top right of page.



Enter the appropriate information as needed. Refer to the diagrams below for further explanation, and watch the instructional video on the web page.

LOAD DATA

Select your Bullet from the list. If your bullet is not available, then enter your load description and the bullet weight. The Manufacturer ballistic coefficient will be used in another section.

Figure 10. True BC Ballistics Form Example

The Best of the West True BC Ballistics

[Calculate](#) [Print](#)

Sighting Data Scope Height (0-100) <input type="text" value="1.75"/> Impact Range (1-2000) <input type="text" value="200"/> Impact Ht (-100-100) <input type="text" value="0"/> Incline Angle (-90-90) <input type="text" value="0"/> Wind Speed (-100-100) <input type="text" value="10"/> Click Value (.01-1) <input type="text" value="333333"/>	Load Data Choose Bullet or Enter BC in True BC Data <input type="text" value="Sierra .204dia.32gr.BlitzKing™"/> Enter Cartridge / Load Description <input type="text"/> Bullet Weight (5-15000) <input type="text" value="32"/>	True BC Data <input checked="" type="radio"/> Ballistic Coeff. (0-100) <input type="text" value="0.204"/> <input type="radio"/> Muzzle Vel. (500-4500) <input type="text" value="3000"/>
	Conditions Altitude (-1000-15000 ft) <input type="text" value="0"/> Temperature (-40-140 F) <input type="text" value="59"/> Pressure (15-40 in Hg) <input type="text" value="29.92"/> Humidity (0-100%) <input type="text" value="50"/>	Field Shooting Data Far Trgt Range (0-3000) <input type="text" value="0"/> Clicks (-500-500) <input type="text" value="0"/> Inches (-100-100) <input type="text" value="0"/>

Figure 11. True Ballistics Load Data

Load Data
 Choose Bullet or Enter BC in TrueBC Data

 Enter Cartridge / Load Description:

 Bullet Weight:

*Note: when all other data is entered then "click" calculate at the top right and your True BC will be calculated.

SIGHTING DATA AND CONDITIONS

Sighting Data

Figure 12. True Ballistics Sighting Data

Scope Height - Number of inches from the center of bore to center of scope

Impact Range - The range used to Zero the rifle. Normally 200 yards works well.

Impact Height - The number of inches high or low off center of the zero.

Incline Value - The angle of incline when shooting.

Wind Speed - Defaults to 10 mph Enter Value Here.

Click Value - Enter the amount of minutes of Angle that each click of the turret equals.

Sighting Data

Scope Height (0-100)	<input type="text" value="1.75"/>	<input type="button" value="?"/>
Impct Range (1-2000)	<input type="text" value="200"/>	<input type="button" value="?"/>
Impct Ht (-100-100)	<input type="text" value="0"/>	<input type="button" value="?"/>
Incline Angle (-90-90)	<input type="text" value="0"/>	<input type="button" value="?"/>
Wind Speed (-100-100)	<input type="text" value="10"/>	<input type="button" value="?"/>
Click Value (.01-1)	<input type="text" value=".333333"/>	<input type="button" value="?"/>

Conditions

Altitude - Enter the desired altitude the range card will be created for.

Temperature - Enter the desired temperature the range card will be created for.

Pressure - Enter the anticipated Barometric pressure. Defaults to the mean.

Humidity - Enter the anticipated humidity for the range card. Defaults to the mean.

Figure 13. True BC Conditions

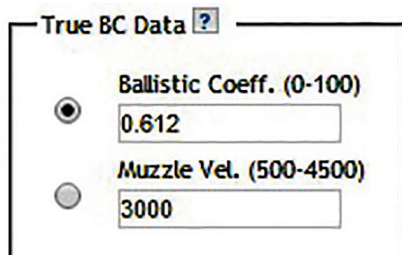
Conditions

Altitude (-1000-15000 ft)	Temperature (-40-140 F)
<input type="text" value="5000"/>	<input type="text" value="50"/>
Pressure (15-40 in Hg)	Humidity (0-100%)
<input type="text" value="24.89"/>	<input type="text" value="50"/>

“TRUE BC” PROGRAM

In the True BC Data Section the ballistic coefficient value will be retrieved for the selected bullet. If no bullet was selected, enter the manufacturer BC here manually. The same is true for the velocity it can and should be manually entered if not correct.

Figure 14. “True BC” Corrected Ballistics Coefficient



The screenshot shows a web form titled "True BC Data" with a help icon. It contains two radio buttons for selection. The first option, "Ballistic Coeff. (0-100)", is selected and has a text input field containing the value "0.612". The second option, "Muzzle Vel. (500-4500)", is unselected and has a text input field containing the value "3000".

There are 2 charts to print off on this page: The RANGE CARD and a DROP CHART/BALLISTICS CHART. The range card should be used to collect initial data that will be used to fill in the rest of the fields required on calculator to build your custom turret. Please see figures 15A and 15B for examples of Ballistics Chart and Range Card.

The following explains fields/columns of range card and chart:

Range- Will be in yards

Deflection/Wind-MOA Minutes of Angle, Clicks , or Inches based on the click value entered in the Sighting Data section,

Path-MOA, Clicks, or Inches

For the purpose of collecting data for the **RFBC** Turret set the path to clicks.

When any Alternate Path options are selected, additional columns will be added using the Path unit of measure.

NOTE: The initial range card is printed for estimation only. Once the steps are followed to obtain the true ballistic coefficient the range card will be accurate and should match your click values.

Figure 15A. Drop/Ballistics Chart

Scope Height: 1.75
Zero Range: 200
Zero Adjustment: 0
Inclination: 0
Wind Speed: 10
Click Value: .333333

Choose Bullet or Enter BC in TrueBC Data
Berger .284dia.168gr.VLD
Enter Cartridge / Load Description:
Bullet Weight: 168
Environmental Data
Altitude: 0
Temperature: 50
Barometric Pressure: 29.92
Relative Humidity: 50

Ballistic Coefficient: 0.648
Muzzle Velocity: 3000

Field Shooting Data
Target (yds): 0
Clicks: 0
Adjustment (in): 0

Range Card
Start Range: 200
End Range: 1000
Increments: 50

Alternate Path Conditions
Column1: None
Column2: None

Range (Yards)	Vel.	Energy	Wind Def. (MOA)	Path (Clicks)
200	2710.6	2740.4	0.9	-0.0
250	2640.0	2599.4	1.1	-2.7
300	2570.5	2464.4	1.4	-5.7
350	2502.1	2334.9	1.6	-8.9
400	2434.7	2210.9	1.9	-12.4
450	2368.3	2092.0	2.1	-15.9
500	2303.0	1978.2	2.4	-19.7
550	2238.7	1869.2	2.7	-23.6
600	2175.3	1764.9	3.0	-27.7

BALLISTICS CHART

will form at bottom of page once "Calculate" button is clicked.

RANGE CARD

will form once "Range Card" button is clicked.

This will prompt a "pop up window" with a sheet for you to print off and write your data collection on.

NOTE: You must go to the settings in your browser and **TURN ON** the pop up windows. Also, this card will **NOT** form in web browser Google Chrome. Please use another browser, such as Internet Explorer

Figure 15B. Range Card

http://www.bccalculator.com/ - Internet Explorer

about:blank

Range Card / Data Collection Sheet

Entered Values:
Sight Height: 1.75
Weight: 168
Bullet Coefficient: 0.648
Velocity: 3000
Wind Speed: 10
Zero Range: 200
Zero Drop (in): 0
Click Value: .333333
Altitude: 0
Temperature: 59
Pressure: 29.92
Humidity: 50
Incline: 0

Range Data
Velocity: _____
Altitude: _____
Temp: _____
Pressure: _____
Humidity: _____
Far Target Range: _____
Inches: _____

Maximum point blank range: 377
Maximum point blank zero: 319
Range at maximum height: 176

***POP UP WINDOW WITH RANGE CARD**

Calculate Range Card

NOTE: To print Range Card, popups must be enabled

TrueBC™
BC in TrueBC Data: VLD
Description: _____
Temperature: 59
Relative Humidity: 50

Field Shooting Data
Target (yds): 0
Clicks: 0
Adjustment (in): 0

Increments: 50

Range (Yards)	Vel.	Energy	Wind Def. (MOA)	Path (Clicks)
200	2710.6	2740.4	0.9	-0.0
250	2640.0	2599.4	1.1	-2.7
300	2570.5	2464.4	1.4	-5.7
350	2502.1	2334.9	1.6	-8.9
400	2434.7	2210.9	1.9	-12.4

Now that you have all the data to get your custom **RFBC** Turret refer to the example below on what is going to be needed before calling in or going to our website. An example of the data needed to get an **RFBC** turret engraved would look like the following.

Scope Sn#	BD52-00000
Load Description	7Rem168VLD
Zero Range	200 Yd Zero
Mfg G1 BC #	.617
Muzzle Velocity	2950
Altitude when Data Collected	3150
Temp when Data Collected	62 Deg
Mid Range Clicks	13clicks@400.28@600
Far Range Clicks	46clicks@800,67@1000

MANUAL DATA SHEET

To get your custom **RFBC** turret info to Huskemaw please visit our website at longrangestore.com or call us at Huskemaw optics [866-754-7618](tel:866-754-7618).

EXAMPLE

Desired Turret Specifications

- A. 2,000' - 60°
- B. 6,000' - 40°
- C. 10,000' - 20°

DUAL STACK INTERLOCKING RFBC TURRET

The patented dual-interlocking turret reveals a second turret underneath for another load, environmental condition or second revolution. Outer turrets can be calibrated for local shooting while the inner turrets could be built for hunts far away from home. The turrets are all windage enabled and can be engraved for different elevations and environments eg; 2000', 6000' and 10,000'.

There is 2000' coverage above and below each set elevation and 20 degrees F above and below each set temperature environment. Dual stacked turrets can also be engraved for different bullets/loads, continuous revolutions for extremely long range shooting, MOA, meters or a blend of the above. So essentially one double stack turret can handle shooting environments from 4000' to 12,000' and temperature from 10 to 70 degrees.

Please see note on page 20 about installation of dual stack turret.



US Patent 9,366,502

INSTALLATION OF THE RFBC TURRET

Once the data has been collected and submitted for your Custom **RFBC** turret it can then be laser engraved and shipped to you. After receiving it turn the factory data collection turret to zero and remove the retaining screw while not rotating the turret. Remove the data collection turret and replace it with your brand new **RFBC** turret aligning the 200 yd mark or your predetermined zero mark at the same location the zero was at. Test your zero at the range and if needed adjust accordingly. Now you are ready to push your Huskemaw towards its true potential. Now hold your crosshairs dead on to make the perfect shot.

Figure 16. Dialing the RFBC Turret from 200 to 725 yards



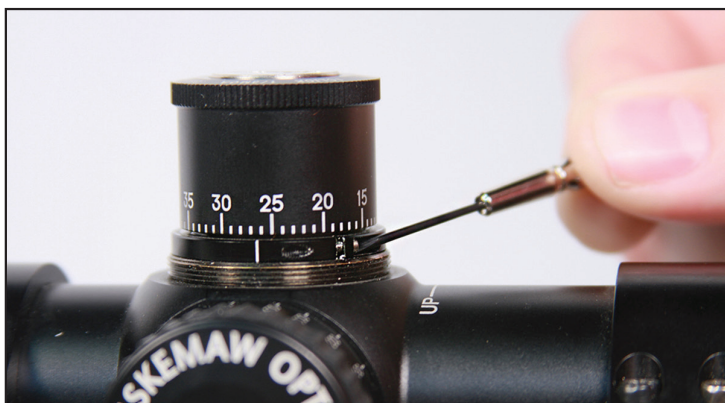
SETTING YOUR ZERO INDEX RING

Located directly below your **RFBC** yardage turret (The Blue or Black) will be a black ring that will screw up and down on threads. This is the Zero index ring and will allow easy reset of your yardage turret if needed. To set this follow these easy steps. After data is collected and **RFBC** turret is received and installed be sure that it is zeroed at 200yds. Next take the provided screwdriver that came with the scope and loosen the very small screw on the side of the zero index ring (if needed) then move only the black zero index ring up (counterclockwise) until it kisses the bottom of the turret. After that rotate the zero index ring away from the turret clockwise 1/4 turn to align the very next white line with the 200 yard zero line. Tighten snug the small screw in the zero index ring to keep it there. At this point the turret should turn 5-10 clicks clockwise past the 200 yard line then stop. After the turret stops rotate it back counterclockwise until the white line on the zero index ring and the 200 yard or your zero mark align.

CAUTION: Do not over tighten zero index ring screw or tighten turret against zero index ring.

***NOTE:** A portion of the dual stack turrets are slightly taller than a single stack. The result is the dual stack tightens against the zero index ring. Please call us and we will explain the process for resetting your zero index ring.

Figure 17. Setting Your Zero Index Ring



WIND HOLD COMPENSATION

Understanding how wind can and does affect the flight of your bullet is key to effective long range accuracy. This subject is very broad and requires more detailed information than we can provide in this manual. We have provided an overview in the next segment titled – Doping The Wind. Huskemaw has produced a DVD “How To Dope The Wind Beyond Belief” that provides extensive information on the science and techniques needed to compensate for wind in field conditions.

Your Huskemaw rifle scope comes equipped with our Hunt Smart Reticle and after your data is collected, a custom **RFBC** turret. This system is the fastest and most accurate method available for wind compensation. Your Huskemaw turret is the only turret in the industry that can legally have wind compensation engraved on the turret (patented). To compensate for wind, you must adjust the turret for the known distance to target, evaluate crosswind velocity and value. The lower set of numbers is your distance to target and the upper set is the corresponding wind hold numbers based on MOA for a 10 mph full value wind.

Figure 18 represents an actual field scenario, so let's lay it out. The mountain goat is broadside at 700 yards, wind is 10 mph full value blowing from right to left. The turret is dialed to 700 yards, your wind hold is indicated as 3 moa or the 3rd mark on the horizontal plane of the hunt smart reticle. If the wind was 5 mph halve the hold and 20 mph double the hold. Quick, easy and very precise..

Figure 18. 3 MOA wind hold @ 20X



DOPING THE WIND

Extreme range shooters spend their time studying wind, not drop charts. Wind speed and direction are the only variables that cannot be directly measured. The Huskemaw technology allows very rapid and precise compensation using a method of wind bracketing. This method is outlined below, and allows ethical one shot kills past 700 yards in windy conditions.

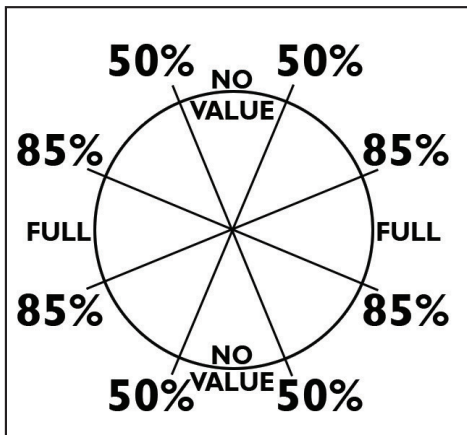
With this wind compensation technology, you are only required to bracket your crosswind velocity as 5, 10, 15, and 20 miles per hour. This requires two determinations. First, you can estimate the total wind speed, then you need to determine the value of that velocity that is traveling across your line of fire.

Determining wind speed takes practice. A wind meter will help you to learn the 5, 10, 15, and 20 mph brackets. As you guess a speed, view the movement of vegetation and dust, then use the wind meter to measure. Repeated practice will allow quick adjustments for changing wind conditions in the field without using the wind meter. A 5 mph wind will be felt distinctly on your face, with vegetation (leaves, grass, etc.) stirring continuously. A 10 mph breeze will raise dust and blow around loose paper, seeds, etc. A 15-20 mph wind will cause small trees and bushes to sway with varying intensity.

To determine the amount of wind that is blowing directly across your line of fire, use the simple wind rosette multipliers to correct for wind direction. For example, a 10 mph wind from 10 to 4 o'clock, multiply by .85 for a 8.5 mph cross wind.

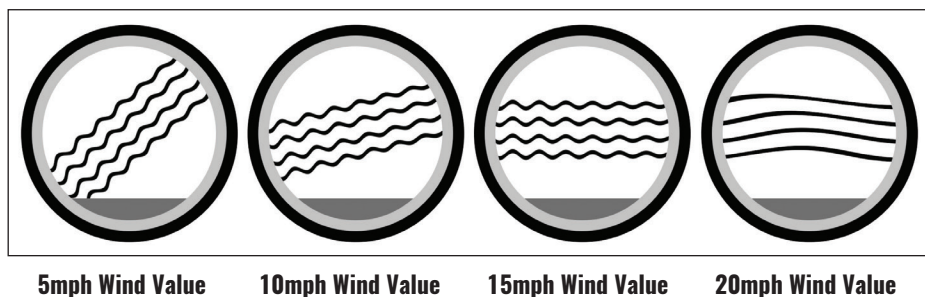


Figure 19. Wind Rosette



Finally, with practice, mirage can be used as a true value wind indicator. To see the mirage adjust your scope to Max Power or 20X and manipulate the parallax adjustment to focus on the mirage instead of the target. A straight up or boiling condition is not wind, see graphic below for mirage appearance and corresponding value. Mirage is handy, but like all methods of wind doping, only practice will allow satisfactory field use. For a comprehensive understanding of wind compensation look into purchasing our video “How to Dope the Wind BEYOND BELIEF”.

Figure 20. The appearance of mirage and relative wind speed.



RANGE FINDERS AND FIELD APPLICATIONS

The advancement in technology of affordable rangefinders has opened the door to ethical long range applications for the discriminating hunter. When choosing a brand and model, get the most user friendly and basic model that meets your distance requirements. Most rangefinders will consistently range about $\frac{3}{4}$ of their advertised distance. i.e. – Model 1600 will typically range 1,600 in the most favorable conditions, 1,200 in decent conditions and any one’s guess in rain and/or snow. Reflectivity of the target is also a consideration.

We suggest ranging your target animal a minimum of 3X and then range above and below to help validate your range. The process of ranging and ultimately acquiring a correct range is greatly enhanced with practice and becoming familiar with all functions. Obtaining the correct range is the weakest link in your ability to make a long range shot. This is especially true in flat sage/grassland type country.

Huskemaw Additional Tips and Techniques

HUSKEMAW QUICK RULES

- A. 1 click at 1,000 yards, ½ click for 750 yards for each 1,000 feet elevation or 20° F temperature change from data on turret based on a higher BC bullet
- B. Higher elevation, hotter temperature = click down
- C. Lower elevation, colder temperature = click up
- D. Angle Compensation – valid for both up angle and down angle shots

10° - 2%	30° - 15%
20° - 7%	40° - 25%

USING YOUR RETICLE AS A RANGING AND MEASURING TOOL

The Huskemaw Hunt Smart Reticle can be used as both a distance indicator and measurement tool in the field. The first step is to understand MOA and the various sub-tensions in your reticle. This method should only be used as a backup in the event your rangefinder is not functional. An example is outlined below: Size of target in inches ÷ MOA (reticle sub-tensions) or 18" Deer ÷ 3MOA = 6 X100 = 600 yards. Go to the scope specifications in Section 3 for sub-tensions or to huskemawoptics.com for a complete sub-tension schematic of your exact scope and reticle model.

WHY WE USE 1/3 & 1/2 MOA CLICKS

The advantage of using $\frac{1}{3}$ moa clicks is you get 20 moa adjustment in one revolution of the turret. If we used $\frac{1}{4}$ moa clicks we would only get 15 moa adjustment in one revolution. All the Huskemaw scopes currently available utilize $\frac{1}{3}$ moa per click with the exception of the 1-6X24 Tactical which has $\frac{1}{2}$ moa per click. An example of the reality of $\frac{1}{2}$ moa clicks is as follows: $\frac{1}{2}$ moa click will move point of impact 5.024" at 1,000 yards. This in turn equates to the fact that your nearest click can be off no more than one-half of 5.024 or 2.51" at 1,000 yards from the center of the reticle.

VERIFYING YOUR SCOPE POINT OF IMPACT

Upon arriving at your hunting/shooting location it is time well spent to prove the rifle and scope system. Range an inanimate target at 500+ yards. Dial the **RFBC** turret to the distance and test fire with a spotter. Make necessary adjustments as needed for a precise hit at that distance. This process not only validates your turret, it also builds mental confidence in your ability to make the shot.

After 3 years of field testing from sea level to 12,000 feet, Huskemaw rolled out a superb offering in a light-weight, compact package. The BD-high density lens coatings deliver extreme clarity and light transmission. Functionality and durability are built into every pair of the HO 10x42 HD binoculars.

Length	5.6"
Weight	24.6 oz
Objective Diameter	42 mm
Field of View	6.5°
Focus Min-Max	2yds-∞
Lens Coat	High Definition



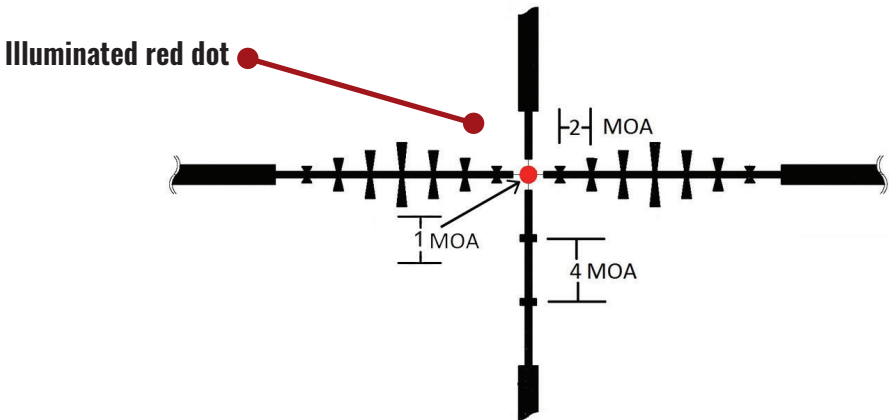


This Huskemaw product is the most versatile compact optic on the planet. The 1-6 Tactical scope not only serves as an excellent option for tactical, law enforcement and sport shooters; it also makes a great choice for hunters in a variety of applications. In addition to the hunt smart reticle, this scope features an illuminated red dot with 5 intensity settings each and a power off between each setting.

Magnification	1-6x
Eye Relief (inches)	4 inches
Focal Plane	Second
Overall Length	11.2 inches
Weight	20 ounces
Tube Diameter	30mm
Objective Lens Diameter	24mm
Eyepiece Diameter	43mm
Max. Mounting Length	6.5 inches
Field of View	113 ft -18.8 ft
Click Value	.5 MOA
Adjustments per Revolution	60 clicks / 30 MOA



Figure 21. 1-6x24 Reticle



In this example the amount of wind hold would be 3.25 Minutes of Angle at 300yds. Based on a 10mph Full Value Wind @Max Power

Wind Value

The Wind Values for the **RFBC** Turrets are in Minutes of Angle. Refer to the diagram for the Values for your 1-6 Tactical at Max Power or 6x.

8 MOA wind hold reticle @6x.

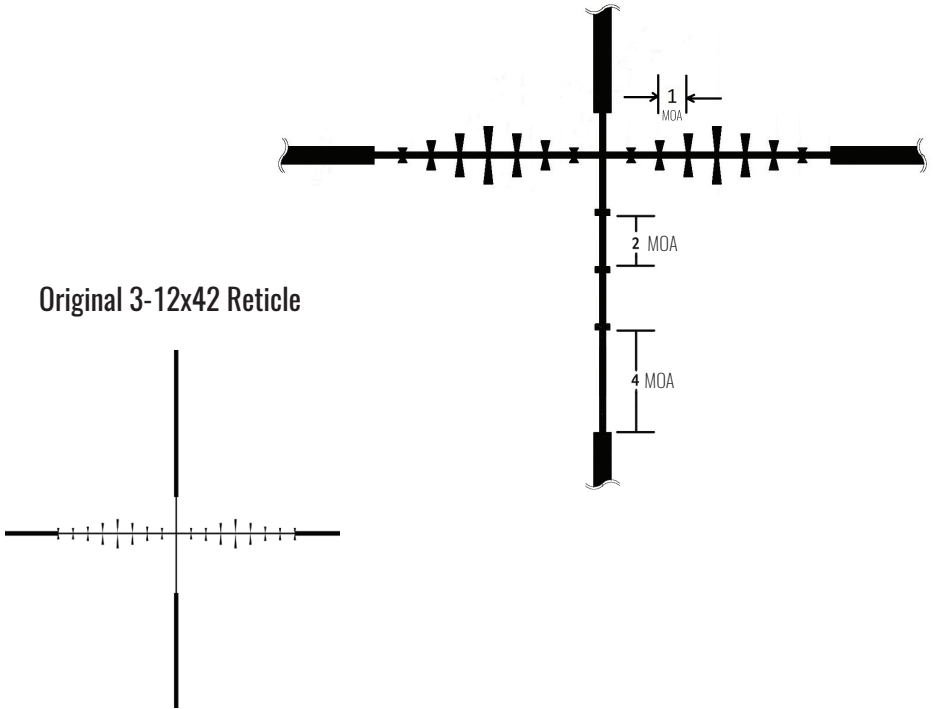


A value priced optic with exceptional performance, the 3-12 rifle scope has all the features of the 5-20 but in a low profile, lighter weight version. The 3-12 is absolutely the right scope for lighter applications, smaller calibers, muzzleloaders and tactical rifles.

Magnification	3-12x
Eye Relief (inches)	4 inches
Focal Plane	Second
Overall Length	14.1 inches
Weight	21 ounces
Tube Diameter	30 mm
Objective Lens Diameter	42 mm
Eyepiece Diameter	43 mm
Max. Mounting Length	6.5 inches
Field of View @ 100 yds	35 ft. - 8.7 ft.
Click Value	.333 MOA
Adjustments per Revolution	60 clicks / 20 MOA



Figure 22. Current 3-12x42 Reticle



In this example the amount of wind hold would be 4 Minutes of Angle at 400yds, based on a 10mph Full Value Wind @Max Power

Wind Value

The Wind Values for the **RFBC** Turrets are in Minutes of Angle.
Refer to the diagram for the Values for your 3-12 Blue Diamond at Max Power or 12x.
8 MOA wind hold reticle @12x.

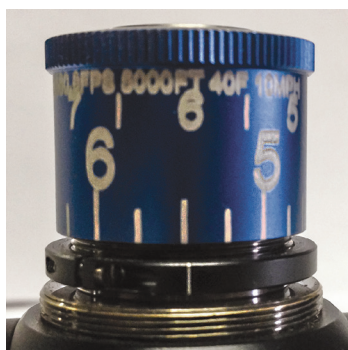
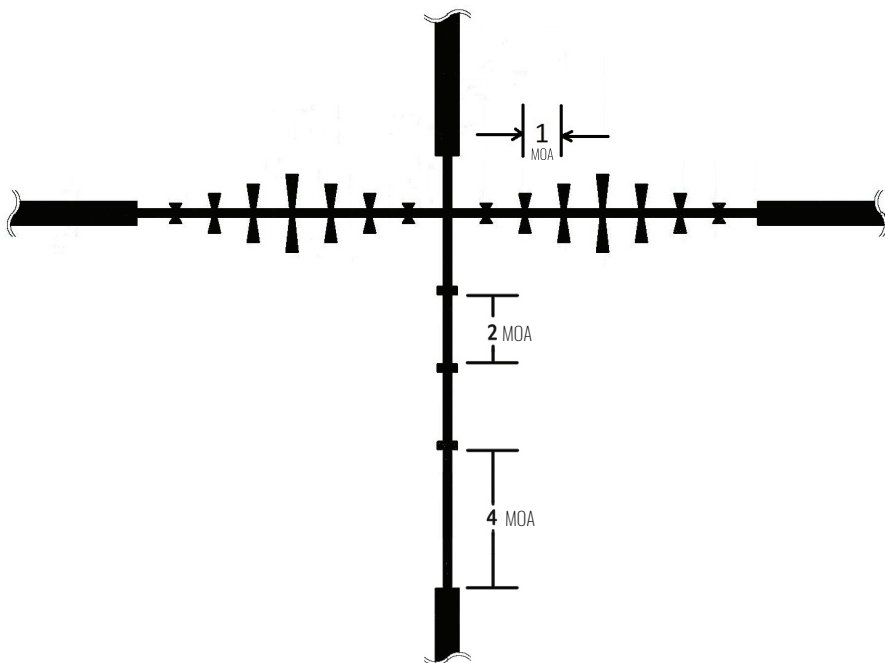


The best of both worlds can be had with the 4-16! Light enough to pack, yet powerful enough to deliver precision long range shots, this scope is a very well rounded choice. As with all Huskemaw scopes, the 4-16 incorporates the BD-High Definition lens coatings to deliver superior low-light performance.

Actual Magnification	4x-16x
Eye Relief (inches)	4 inches
Focal Plane	Second
Obj. Lens Diameter	42 mm
FOV @ 100yds	24.4 ft. - 6.3 ft.
Overall Length	13.7 inches
Objective Diameter	42 mm
Eyepiece Diameter	43 mm
Tube Diameter	30 mm
Weight	22 oz.
Click Value	.333 MOA
Adjustments per Revolution	60 clicks / 20 MOA



Figure 23. 4-16x42 Reticle



In this example, the amount of wind hold would be 6 Minutes of Angle at 550yds. Based on a 10mph Full Value Wind @Max Power

————— **Wind Value**

The Wind Values for the **RFBC** Turrets are in Minutes of Angle.
Refer to the diagram for the Values for your 4-16 Blue Diamond at Max Power or 16x.
8 MOA wind hold reticle @16x.

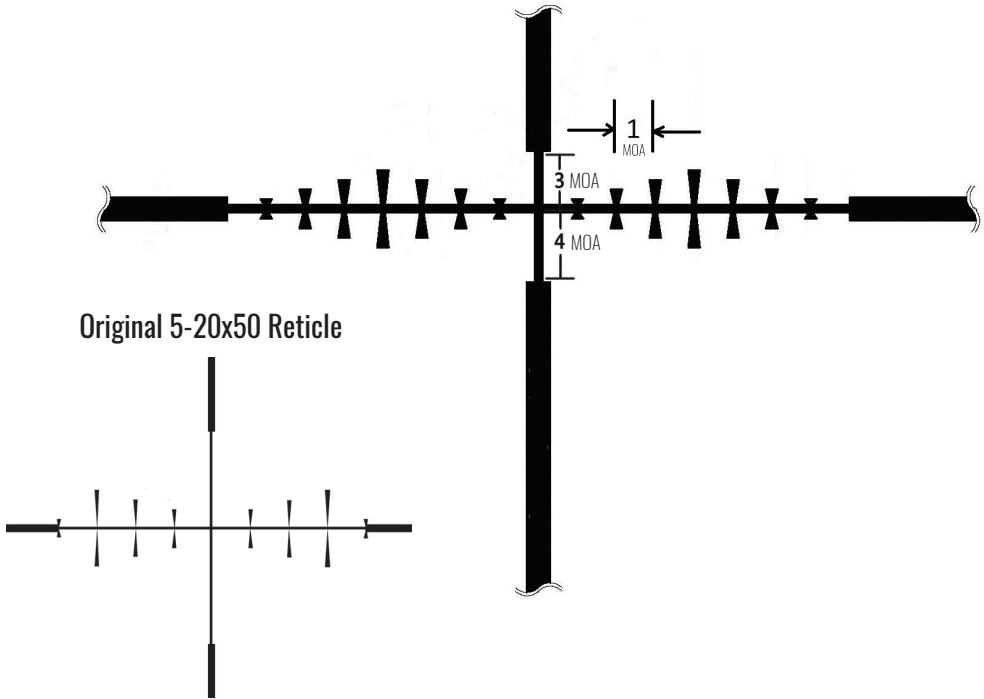
Our flagship scope is tried and true. It's simple yet highly efficient design has revolutionized the hunting industry by enabling customers to double their effective shooting range. It was the first scope to incorporate the ballistic compensating turret with the simple, yet powerful wind hold HuntSmart reticle



Actual Magnification	5x-20x
Eye Relief (inches)	4 inches
Focal Plane	Second
Objective Lens Diameter	2.0 in. (50 mm)
FOV @ 100yds	17.9 ft. - 5.2 ft.
Length	13.7 inches
Objective Diameter	50 mm
Eyepiece Diameter	43 mm
Tube Diameter	30 mm
Weight	24 oz.
Click Value	.333 MOA
Adjustments per Revolution	60 clicks / 20 MOA



Figure 24. CURRENT 5-20X50 RETICLE



In this example the amount of wind hold would be 3 Minutes of Angle at 700yds. Based on a 10mph Full Value Wind @Max Power



Wind Value

The Wind Values for the **RFBC** Turrets are in Minutes of Angle.
Refer to the diagram for the Values for your 5-20 Blue Diamond at Max Power or 20x.
8 MOA wind hold reticle.

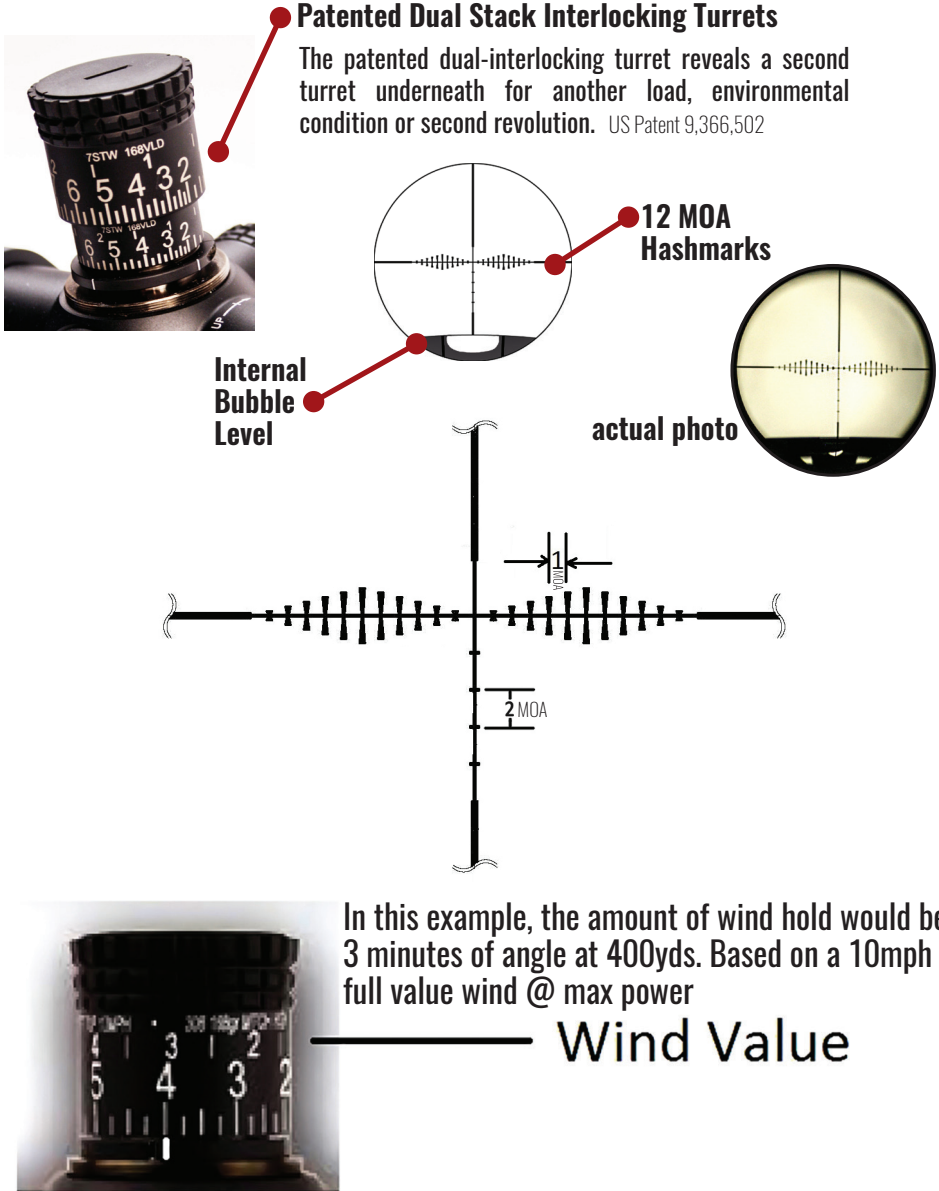


The Tactical 5-30x56 offers the highest magnification in the Huskemaw Optics lineup and is another revolutionary product in long range hunting. The dual-interlocking turret reveals a second turret underneath for another load, environmental condition or second revolution, capable of over 100 MOA's of adjustment. This scope also features an internal bubble level.

COMING SOON! Huskemaw is currently developing our newest product offering, the Tactical 5-20x50 model. This model will have all the attributes of the 5-30x56 in a lighter-weight, more compact package, and an illuminated reticle!

Actual Magnification	5x-30x
Eye Relief (inches)	4 inches
Focal Plane	Second
Obj. Lens Diameter	56 mm
FOV @ 100yds	18.1 ft. - 3.3 ft.
Length	14.25 inches
Eyepiece Diameter	43 mm
Tube Diameter	34 mm
Weight	34 oz.
Click Value	.333 MOA
Adjustments per Revolution	90 clicks / 30 MOA

Figure 25. CURRENT 5-30X56 RETICLE AND INTERNAL BUBBLE LEVEL



The Wind Values for the **RFBC** Turrets are in minutes of angle. Refer to the diagram for the values for your 5-30 tactical at max power or 30x.

12 MOA wind hold reticle @30x.



2 MOA click value
Crossfield is designed for
crossbow applications

The HO Crossfield is a fixed power 3 x 32 scope that features a calibrated yardage turret to precisely match the trajectory of your high-speed crossbow at extended ranges. High definition multicoated lenses provide premium light gathering for bright, sharp images. The illuminated red or green center dot has varying levels of brightness. The rugged construction is shockproof, waterproof and fogproof for solid performance in the most challenging conditions.

Overall Length	9.4 inches
Eye Relief:	3.5 in.
Weight	17.2 ounces
Tube Diameter	30mm
Objective Lens Diameter	32mm
Eyepiece Diameter	34mm
Max. Mounting Length	4.6 inches
Field of View @ 100 yds	21 ft.
Click Value	2 MOA
Adjustments per Revolution	60 clicks / 120 MOA -Black



Reticle has both a red and green illuminated dot setting to choose from

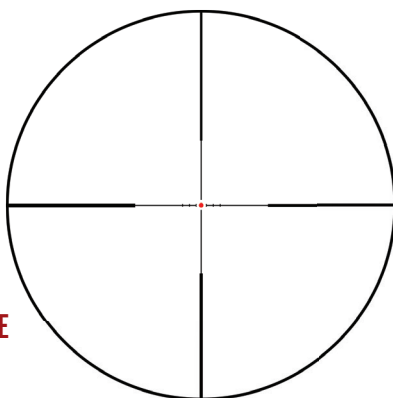


Figure 26. CROSSFIELD 3X32 RETICLE

There are 3 options to get your Crossfield mounted and data collected for a custom turret built just for your crossbow!

OPTION 1: COLLECTING DATA WITH DROP DATA TURRET

SECTION 1. MOUNTING SCOPE TO CROSSBOW

- A. Set your rings on the scope rail. Tighten Nut to 24 inch lbs.
- B. Place the scope in the rings.
- C. Install the top rings. Verify scope is level. Adjust to proper eye relief. Tighten screws in a crossing pattern to 24 inch lbs.
- D. Lift up crossbow, verify you have it set to maximize your field of view.

SECTION 2. SETTING ZERO STOP

- A. Loosen set screw on Zero Stop (with screwdriver provide) and screw to the bottom, then lightly tighten.
- B. Adjust turret Up or Down, to get your turret in the middle.
- C. Shoot crossbow at 10 yards from target to verify impact.
- D. Make corrections for impact.
- E. Shoot at 20 or 30 yds to establish "ZERO". Make corrections up or down until established.
- F. Once zero'd, loosen top silver turret screw, lift off turret, reset with 0 facing you. Tighten screw (hand tighten) then loosen zero stop screw and adjust up until Turret Tab stops on the Zero Stop Tab, then tighten zero stop screw.

SECTION 3. DATA COLLECTION (CUSTOMIZED TURRET) DOCUMENT DATA AS COLLECTED

- A. Move back to 30yds, dial up 3-6 clicks to verify 30 yds. If high or low, dial in to range.
- B. Move back to 40yds, dial same number of clicks, verify and dial in 40 yds.
- C. Move back to 50yds, dial in same number of clicks, verify and dial in 50 yds.
- D. Move back to 60yds, dial in same number or 1 extra, verify and dial in 60 yds.
- E. Move back to 70yds, dial in same number of clicks plus 1 or 2 if needed. Dial in 70 yds.
- F. Use same method to continue to maximum yardage based on one full revolution.
- G. Email in turret info to contact@thebestofthewest.net

SECTION 4. INSTALLATION OF TURRET

- A. Once turret is made and received, loosen top screw.
- B. Remove data collection turret. Be careful not to lose ZERO position.
- C. Install new yardage turret utilizing appropriate mark on zero stop ring.
- D. Tighten screw(hand tighten, snubbed slightly with coin).
- E. IF the tab on the new turret is in a different spot than on your blank turret, loosen and adjust zero stop up to make them meet (assure zero position).
- F. Now you are ready to check ZERO and shoot for distance.

OPTION 2: ARROW SPEED/WEIGHT TURRET

- A. Order Huskemaw crossbow scope.
- B. Give us the grain weight of bolt and broadhead.
- C. Give us the speed in FPS of your crossbow.
- D. Give ZERO range to start from.
- E. Once received install scope and establish ZERO, Per Section 1 and 2
- F. Then onto **SECTION 4: INSTALLATION OF THE TURRET.**

OPTION 3: SCOPE MOUNT JOB

If you don't have the time or the range, send in your crossbow with at least 6 bolts and the correct weight field points for data collection. Data collected to 100 yds +

NOTE: The Huskemaw Crossfield scope is the latest product offering from Huskemaw. We have provided 2 methods for you to gather your own data for Huskemaw to build a customized turret matching the trajectory of the arrow from your crossbow. The collection of actual drop data is naturally the most precise, especially beyond 50 yards. The method utilizing crossbow speed and arrow weight is also precise, just not quite as refined. This is a choice we leave to you the consumer. Thank you for your

business and we encourage you to look further into our full rifle scope line, binoculars, and accessories.

Please call us with any questions you may have! 1-866-754-7618

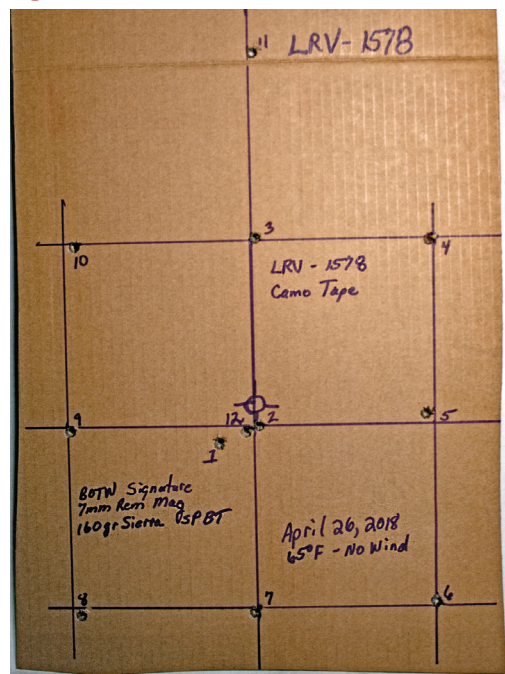
www.huskemawoptics.com

ARE YOU HAVING PROBLEMS WITH YOUR HUSKEMAW OPTIC? PLEASE CONSIDER THE SCOPE TEST BELOW BEFORE RETURNING YOUR SCOPE UNDER WARRANTY REPLACEMENT.

HUSKEMAW RETURNED SCOPE TESTING PROCEDURES

The following is the process for testing a returned Huskemaw Rifle scope. We are a company that prides itself on customer service and back our products 100%. Of the returned scopes we receive, 88% of those scopes test out with no problems. Unfortunately, when a rifle begins to shoot erratically, most owners immediately blame the scope. Many variables can change your scope/rifle point of impact. Please consider the following before sending your scope back: loose actions screws, loose rings and/or bases, copper build up in your barrel, lack of or poor bedding, ammunition variances and barrel heat. If in fact your scope tests with a problem, we will immediately send a refurbished scope (or new scope depending on availability).

Figure 27. SCOPE TEST EXAMPLE - 50 yard box test



HUSKEMAW'S STANDARDIZED SCOPE TESTING PROCEDURES

When we receive a returned scope, we run it through a gauntlet of tests to pinpoint what the problem may be:

1. Visual check looking for any damage that may inhibit functionality.
2. Scope placed in Collimator and tested for both vertical and horizontal tracking in a grid pattern based on the click value of the scope.

3. Scope is mounted on an accurized BOTW Sig Series 7 Rem Mag and preparations in place to test under recoil for tracking and point of impact changes.
4. Scope is then shot in a graduated box pattern at 50 yards. This process involves 10 actual shots.
5. If the scope passes ALL of the above testing procedures, the customer is contacted and the scope returned.
6. A picture of the 50 yard box test will be provided.

THIS TEST CAN BE PERFORMED BY HUSKEMAW TECHNICIANS, OR WE CAN WALK YOU THROUGH AN AT-HOME TEST. PLEASE CALL US AT 307-587-2787 TO DISCUSS YOUR OPTIONS.

Please note: This test can only be performed on an ACCURIZED rifle.

WARRANTY AND REPAIR

If your Huskemaw product fails to perform in any way please contact a Huskemaw Representative to determine if the problem can be solved without returning the product.

- Remove all rings, covers or other accessories.
- Record the serial number and have it available.

PLEASE FOLLOW THESE STEPS WHEN GETTING READY FOR A RETURN:

- Call Huskemaw at 866-754-7618 for an RMA
- Or email our warranty department at Warranty@thebestofthewest.net

SHIP TO

Huskemaw Optics
115 W. Yellowstone Ave
Cody, WY 82414
Attn. Warranty Repair

CONDITIONS OF WARRANTY:

All Huskemaw Rifle Scopes provide a lifetime warranty. The warranty is subject to the following conditions:

- Huskemaw Optics will repair or replace unit at our discretion.
- Claims under warranty are null and void if the defect has been because of improper handling or if the serial number has been obliterated.

- When submitting claims under warranty please return the Huskemaw Scope with a description of the claim to the Customer Service department of Huskemaw Optics.

RECORD OF PURCHASE

Serial Number:

Date of Purchase:



I cannot say enough good things about my BOTW Mountain Hunter shooting system with the Huskemaw scope. I have the 6.5 x 284 caliber and it consistently shoots 3/8" MOA at 200 yards and 1" MOA at 400 yards, which gives a guy a great deal of confidence. I took this ram at 378 yards and there was never a doubt that the shot would be good.

Jim Bernardin



I LOVE my Huskemaw 5-20x50 scope! It has lengthened my range dramatically. So far, I am able to hit a 9 inch metal target at 700 yards and it helped me to harvest my ram with ease at 415 yards.

Janice L. Anderson



Leo and Cari Goss traveled to the Yukon to hunt Dall sheep with Northcurl Outfitters and Mac Watson when they found this band of rams they followed them for 10 hours waiting for an opportunity to put a stalk on them and close the deal. With darkness closing in and 10 hours of Cari convincing her guide she could easily shoot 500 yards with her Huskemaw scope, Mac finally gave the green light and Cari delivered with a perfect 475 yard shot to anchor her beautiful ram, Leo quickly followed up on a heavy-broomed ram to complete the Dall double header.

**CONGRATULATIONS!
YOU NOW HAVE**

THE HUSKEMAW ADVANTAGE

- **PATENTED* WINDAGE ENABLED RFBC TURRET THAT WORKS IN TANDEM WITH THE HUNT SMART RETICLE**
*US PATENTS 8,365,455 & 9,366,502
- **ZERO INDEX RING**
- **5 MODELS OF VARYING MAGNIFICATION RANGES**
- **ONE-PIECE SCOPE BODY INCORPORATING 30 MM OR 34 MM TUBE**
- **HIGHEST GRADE MULTI-COATED LENSES**
- **LIFETIME WARRANTY**
- **INTERLOCKING DUAL STACK TURRET NOW AVAILABLE**

**EVERY HUSKEMAW OPTIC IS OF EXCEPTIONAL QUALITY
AND DESIGNED TO DELIVER THE BEST COMPENSATION**



HUSKEMAW.COM

1-866-754-7618

CODY, WY