



**RIFLE SCOPE INSTRUCTION MANUAL**

**N-SERIES (1-6 X 24MM, 2.5-15 X 50MM, 4.5-30 X 50MM)**



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## 1.0 ABOUT YOUR SUPERIOR™ RIFLE SCOPE

Congratulations on the purchase of your new Superior™ brand Rifle Scope! Superior™ is a leading manufacturer for rifle scopes, spotting scopes, and binoculars. We have made it easier for the outdoor enthusiast to enjoy the quality, durability and key features usually only reserved for the most expensive rifle scopes with our N-Series 6:1 Zoom Ratio line of high performance Rifle Scopes!

### What's in the Box?

Rifle Scope.....1 each  
Eyepiece Cover.....1 each  
Objective Cover.....1 each  
Battery (3V Lithium battery: CR2032)....1 each  
Cleaning Cloth.....1 each  
Instruction Manual.....1 each

**Variable Magnification Feature:** Enjoy viewing magnifications from 2.5 to 15 power for model 2.5-15x50, 4.5 to 30 power for model 4.5-30x50, and 1 to 6 power for model 1-6x24 with these 6x zoom ratio variable magnification rifle scopes! To change your viewing power, simply turn the Power Change Ring in either the clockwise or counter-clockwise direction until the magnification number lines up with the power indicator arrow as shown below: **See Figure 1.1, 1.2 and 1.3 (Model 2.5-15x50 shown below).**



Fig. 1.1



Fig. 1.2



Fig. 1.3

## 2.0 RIFLE SCOPE KEY FEATURES

The Superior™ N-Series rifle scopes come loaded with key features that are made to give you the best hunting or shooting experience possible.

### Key features include:

- ✓ Variable 6x (6:1) high zoom ratio magnifications
- ✓ Fast focusing system: A quick turn of the ocular ring focuses your image.
- ✓ Illuminated (red) Glass Etched Reticle
- ✓ 100% Waterproof and Nitrogen filled.
- ✓ Fog-proof & Shockproof
- ✓ Fully-Multi Coated lenses: All lens elements have multi layer coatings.

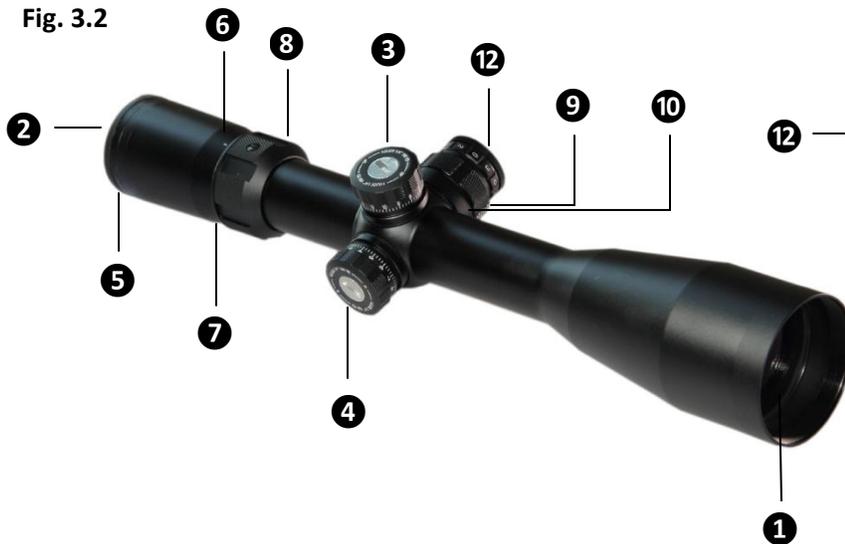
### 3.0 PARTS IDENTIFICATION

Fig. 3.1



1-6 x 24

Fig. 3.2



2.5-15 x 50

4.5-30 x 50

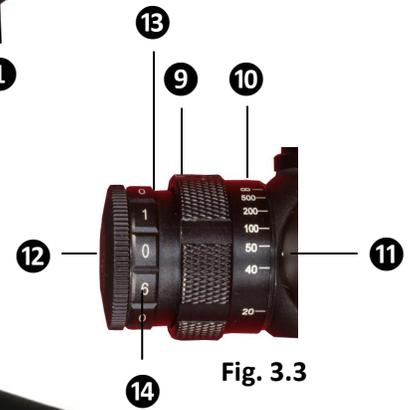


Fig. 3.3

- ① Objective Lens
- ② Eyepiece Lens
- ③ Elevation Adjustment Turret
- ④ Windage Adjustment Turret
- ⑤ Fast Focus Eyepiece Adjustment
- ⑥ Power Indicator Arrow
- ⑦ Power Number Scale
- ⑧ Power Change Ring
- ⑨ Side Focus Parallax Adjustment Turret
- ⑩ Side Focus Distance Number Scale (Yards)
- ⑪ Side Focus Distance Indicator Arrow
- ⑫ Battery Compartment Cover
- ⑬ Illumination Intensity Adjustment Dial
- ⑭ Illumination Intensity Number Scale (1-6, 0 = Off)

#### 4.0 RIFLE SCOPE SPECIFICATIONS

| <b>Model Number</b>             | <b>1-6x24</b>                                  | <b>2.5-15x50</b>                               | <b>4.5-30x50</b>                               |
|---------------------------------|--|--|--|
| Magnification                   | Variable 1-6 Power                             | Variable 2.5-15 Power                          | Variable 4.5-30 Power                          |
| Objective Diameter              | 24mm   | 50mm   | 50mm   |
| Tube Diameter                   | 30mm   | 30mm   | 30mm   |
| Reticle Type (Illuminated)      | 4A European Red Dot                            | 4A European Red Dot                            | 4A European Red Dot                            |
| Eye Relief                      | 96mm   | 100mm  | 100.5mm  |
| Exit Pupil                      | Low Power = 12.5 mm<br>High Power = 4 mm       | Low Power = 11 mm<br>High Power = 3.3 mm       | Low Power = 11.1 mm<br>High Power = 1.7 mm     |
| Field of View @ 100 yards (FOV) | Low Power = 108 feet<br>High Power = 17.6 feet | Low Power = 41.8 feet<br>High Power = 6.8 feet | Low Power = 22.7 feet<br>High Power = 3.6 feet |
| Lens Coatings                   | Fully Multi Coated                             | Fully Multi Coated                             | Fully Multi Coated                             |
| Turret Click Value              | .25 MOA  | .25 MOA  | .25 MOA  |
| Elevation Adjustment Range      | 30 up and 30 down<br>(Total of 60 MOA)         | 30 up and 30 down<br>(Total of 60 MOA)         | 30 up and 30 down<br>(Total of 60 MOA)         |
| Windage Adjustment Range        | 30 left and 30 right<br>(Total of 60 MOA)      | 30 left and 30 right<br>(Total of 60 MOA)      | 30 left and 30 right<br>(Total of 60 MOA)      |
| Parallax Setting                | Fixed 100 yards                                | 10 yards to infinity                           | 25 yards to infinity                           |
| Battery Type                    | CR2032   | CR2032   | CR2032   |
| Weight                          | 17.3 ounces / 489 grams                        | 21.4 ounces / 606 grams                        | 21.4 ounces / 606 grams                        |

## 5.0 FOCUSING YOUR RIFLE SCOPE RETICLE

- **CAUTION: DO NOT LOOK AT THE SUN WITH THIS RIFLE SCOPE. DOING SO WILL CAUSE RESULT IN PERMANENT INJURY TO THE EYES.**
- **CAUTION: YOUR GUN SHOULD ALWAYS BE UNLOADED BEFORE MOUNTING YOUR RIFLE SCOPE.**

Your Superior rifle scope features a fast focus eye piece. Your fast focus eye piece focuses the actual reticle. It is very important to focus your reticle in order to ensure accurate target acquisition using your reticle, as well as reduce eye fatigue which is caused by an out of focus reticle. All Superior rifle scopes are pre-set at 0 diopters or 20/20 vision.

**Important:** *The fast focus eye piece only focuses your reticle, and helps to adjust for the differences in your eye. It does not focus the actual target you are looking at with your rifle scope.*

**Important:** *If you wear prescription eye glasses or contacts, you must wear these when performing the following steps.*

**SEE FIGURE 5.1 & 5.2 FOR THE FOLLOWING STEPS**



Fig. 5.1



Fig. 5.2

## 5.0 FOCUSING YOUR RIFLE SCOPE RETICLE – CONTINUED

**Step #1:** Aim your scope towards a bright surface, white or light colored wall or object, or even a clear sky.

**Step #2:** Turn your fast focus eye piece clockwise or counter clockwise as needed until the reticle comes into complete focus. The reticle markings should be clear and crisp. They should not be blurry.

**Step #3:** Without looking through the rifle scope eye piece, instead look at the object or clear sky in which you just aimed your reticle at until your eyes are adjusted to looking at the object or clear sky. Next, look at the same object or clear sky using your rifle scope eye piece. The reticle should immediately appear sharp and focused without any blurry lines. If the reticle does not appear focused as soon as you look through the scope, then repeat step #2 and step #3. If your reticle immediately looks focused without any blurry lines, then you have completed this step, and your rifle scope reticle is now focused.

**TIP:** Your eye muscles will try to focus an out of focus reticle if you look through the scope for a while. This will cause eye fatigue while using your rifle scope. When adjusting the fast focus eyepiece in step # 2 above, occasionally, you will want to re-adjust your eyes by looking at the object or clear sky for a few minutes without looking through the scope. Then you can go back to step #2 and focus your reticle.

**TIP:** Users may find it easier to focus your reticle when the scope is not mounted on your rifle. This allows for the user to easily point the scope to a clear sky. When mounted on a rifle, you can also focus your rifle scope reticle, by aiming at a light colored or bright background.

## 6.0 USING YOUR SIDE FOCUS

### Parallax Adjustment (Focusing in on your target)

**For models: 2.5-15 X 50MM & 4.5-30 X 50MM (1-6 x 24mm does not have a side parallax focus)**

For rifle scopes, parallax is the apparent movement of the reticle against the target. The apparent movement is caused when the target image formed (focal point) from the light entering the objective lens is not on the reticle plane. For a rifle scope to not have any parallax (parallax free), the target image must be focused onto the reticle plane.

Your Superior lens rifle scope is set parallax free at 100 yards. For the 1-6x24mm model, if you view objects less than or over 100 yards, you will see some apparent movement of the reticle on the target. The 1-6x24mm does not come with a side parallax focus. For most hunting or shooting situations, this reticle movement is insignificant and will not be a concern. For regular hunting situations of popular game such as deer, the apparent movement or parallax is not enough to affect your shot during your hunt.

For models, 2.5-15 x 50mm and 4.5-30 x 50mm, they come with a side parallax focus. For close range shooting of small targets (i.e. air gun competitions), long range shooting of small varmints such as prairie dogs, rabbits or other small targets, and for competition shooting, a rifle scope with a side parallax focus is recommended.

To adjust the parallax side focus in order to eliminate the parallax or apparent movement of the reticle, please follow the below steps:

**Note:** Model 2.5-15x50 comes with a parallax adjustment that adjusts from as low as 10 yards to infinity.

**Note:** Model 4.5-30x50 comes with a parallax adjustment that adjusts from as low as 25 yards to infinity.

## 6.0 USING YOUR SIDE FOCUS – CONTINUED

SEE FIGURE 6.1 and 6.2 FOR THE FOLLOWING STEPS



Fig. 6.1



Fig. 6.2

**Step # 1:** Look through your scope, and line up your crosshair on the target.

**Step # 2:** Without moving your gun, move your head up and down as well as side to side while still looking through your rifle scope. If you have parallax, the reticle will appear to also move off of the original target while you are moving your head up and down or side to side. If you do not have any parallax, the reticle will remain fixed on the target even when you move your head. If there is parallax (reticle appears to move), then move on to step # 3.

**Step # 3:** While looking through your scope, adjust your side parallax adjustment by slowly turning either clockwise or counter clockwise, until the image appears to remain fixed on the target even while moving your head up and down, and from side to side. **See Figure 6.1.**

**TIP:** If you know your exact yardage to your target, you can turn the side parallax adjustment until the number in yards lines up with the white arrow located next to the adjustment. **See Figure 6.2.** For precision shooting, even if you know your yardage from the target, we still recommend to adjust the parallax focus while also looking through your scope. This will help to ensure that your reticle no longer appears to move and is then free of parallax.

## 7.0 MOUNTING YOUR RIFLE SCOPE

When mounting your Superior rifle scope, a set of high-quality mounting rings with a standard diameter of 30mm are required. Carefully follow the manufacturer's instructions that come with your rings for correct mounting procedures.

Upon mounting your rifle scope on your firearm, proceed to step **8.0 Sighting in Your Gun**.

**IMPORTANT:** It is very important that your Superior rifle scope is correctly mounted, and that careful attention is given when mounting your Superior rifle scope on a firearm.

We strongly suggest that your Superior rifle scope be mounted on your firearm by an expert gunsmith.

The user assumes all responsibility and liability for having the Superior rifle scope correctly mounted onto a firearm and using the Superior rifle scope in the proper manner.

**Below are some important tips to keep in mind when proceeding to mount your rifle scope on your firearm:**

**WARNING:** Never pull on or use the rifle scope as a "lever" to adjust the ring alignment! This may cause strain on the internal working parts of your rifle scope and will void your warranty.

**WARNING:** Always check to make sure your firearm is unloaded and that no magazines are in the chamber!

**TIP:** Consult a qualified and experienced gunsmith or your firearm manufacturer to find out which bases and rings are most appropriate for your style of firearm. There are many types of bases that can be mounted on your firearm, and it is best to ask an experienced gunsmith, or the firearm manufacturer for their recommendation.

**TIP:** Be sure that your rings line up perfectly with each other. If the rings are not completely lined up with each other, it can torque your rifle scope, and cause possible damage to your scope.

**TIP:** When mounting your Superior rifle scope, it is recommended to mount it on its highest power. This is due to the fact that the eye relief (the distance from the ocular to your eyeball) is shorter at higher power.

## 8.0 SIGHTING IN YOUR GUN

After you have mounted your rifle scope (We always suggest utilizing the services of an experienced and qualified gunsmith to mount your Superior rifle scope), the next step is to sight in your firearm. Sighting in your rifle will ensure that your point of impact is where you aim the rifle scope cross hair on the target.

**NOTE:** Most sight in problems are caused by poor ring alignment. This is why it is so important to have an expert gunsmith mount your Superior rifle scope.

**TIP:** Prior to bore sighting and sighting in your firearm, it is very important to know the windage and elevation travel distance specifications for your scope model. Specifications for Superior's scopes are located on page 5 of this instruction manual. We recommend not using more than 25% of the available adjustment on our Superior rifle scopes. If your ring alignment exceeds these adjustment requirements, it is recommended that you correct the bad alignment before you begin to sight in your rifle scope.

**STEP #1:** Place a target (For example, you can use a piece of paper with a 1 inch square in the center) 50 yards away. Boresight your firearm. Boresighting your firearm helps to get your first shot "on paper." For a bolt action rifle, remove the bolt, and look down barrel and center your target in the barrel. If you are not using a bolt action firearm, you may want to consider using a laser boresighter for this step. Next, look through your scope to see the location of the cross hairs compared to the target location (or boresight laser dot if using a laser boresighter). Adjust your position of your reticle by using your windage and elevation adjustments until the cross hairs are centered on the target (same target that was centered in your barrel or that your laser boresighter is pointed on).

**TIP:** It is recommended that you use a bench rest or some other method to ensure your firearm can remain in a consistent position, which makes it easier to boresight and sight in your rifle scope.

**STEP #2:** Place your bolt back into your rifle (if using a bolt action rifle). Using a bench rest or some other method to keep the rifle steady and in a consistent position, fire one shot at the center of the bull's-eye. Return the gun to the exact position, and adjust the reticle to the bullet's point of impact. At this point, fire one more shot at the bull's-eye. This shot should be within 1 inch of your target center. Make final adjustments as necessary with the next shot to ensure your point of impact is within 1 inch of your target center.

**STEP #3:** Place your target at 100 yards and repeat STEP #2 above.

## 9.0 RE-ZEROING YOUR SCOPE

Your Superior scope is re-settable to zero after sighting in your scope.

**SEE FIGURE 9.1 and 9.2 FOR THE FOLLOWING STEPS**



**Fig. 9.1**



**Fig. 9.2**

**STEP #1:** To re-zero your scope, loosen the stainless steel screw located on the top of your target style turret by using a coin and remove the turret cap. **Refer to Figure 9.1.**

**STEP #2:** Replace the turret cap so that the zero mark on the cap lines up with the index line that is just underneath the revolution scale. Retighten the silver screw using a coin. **See Figure 9.2.**

Repeat the 2 steps above for both the Windage turret and the Elevation turret.

## 10.0 WINDAGE AND ELEVATION CLICK VALUES AND MOVEMENT

Your Superior N-Series rifle scope utilizes a windage and elevation click value of ¼ MOA (Minutes of Angle) at 100 yards.

**NOTE:** Adjusting the Windage or Elevation turret in the direction of the arrow on the turret, will move the bullet point of impact in the direction indicated.

| <u>Click Value</u> | <u>50 Yards</u> | <u>100 Yards</u> | <u>200 Yards</u> | <u>300 Yards</u> | <u>400 Yards</u> |
|--------------------|-----------------|------------------|------------------|------------------|------------------|
| ¼ MOA (1 click)    | 0.13 inches     | 0.260 inches     | 0.530 inches     | 0.79 inches      | 1.05 inches      |
| 1 MOA (4 clicks)   | 0.524 inches    | 1.047 inches     | 2.094 inches     | 3.15 inches      | 4.20 inches      |

**NOTE:** While making Windage or Elevation Point of Aim adjustments, 1 Minute of Angle (MOA) equals approximately 2.54 cm (1 inch) at 91.44 m (100 yds).

**TIP:** To determine your point of impact movement per click for other yardages, you can use the formula - *Once Click (Movement in inches) = 1/4" x (Yardage to target / 100 yards)*

- For example, if you are shooting at 70 yards. To find out the point of impact movement in inches per click, you would calculate as follows:
- The formula would be:  $\frac{1}{4}'' \times (70/100) = .175$  inches per click at 70 yards. In other words, when shooting at a target that is at 70 yards, each windage or elevation click will move the point of impact by .175 inches.

**NOTE:** The windage adjustment turret is marked with an arrow and an "R" which indicates the direction for changing the point of impact towards the right. Turn the adjustment turret in the opposite direction to adjust the point of impact to the left. **See Figure 10.1.**

**NOTE:** The elevation adjustment turret is marked with an arrow and "UP" which indicates the direction for changing the point of impact. To adjust the point of impact in the upward direction, turn the dial in the direction of the arrow (UP). To adjust the point of impact in the downward direction, turn the dial in the opposite direction of the arrow (UP). **See Figure 10.2.**



**Fig. 10.1** Windage Adjustment Turret



**Fig. 10.2** Elevation Adjustment Turret

## 11.0 BATTERY REPLACEMENT

**CAUTION:** When installing or replacing the battery, ensure that your firearm is unloaded.

Your Superior rifle scope features an illuminated reticle, and is powered by one (CR2032) 3V lithium battery. Your battery life will depend on your intensity setting and temperature. Your battery should last between 100 and 400 hours. Colder environments will cause the battery life to be shorter than warmer environments.

**SEE FIGURE 11.1, 11.2 and 11.3 FOR THE FOLLOWING STEPS**

**STEP 1:** To replace the battery, take a quarter or nickel and place it in the battery slot. **See Figure 11.1.** Place the scope in a normal viewing position, and hold the outer battery housing with one hand while unscrewing the battery cap in a counter clockwise direction. Remove the used battery. **See Figure 11.3.**

**NOTE:** When disposing the battery, follow your local area regulations.

**STEP 2:** Place the new battery with the positive (+) side facing up. **See Figure 11.2.**

**STEP 3:** Replace the cap by screwing on clockwise to tighten.

**NOTE:** Do not over tighten.



Fig. 11.1

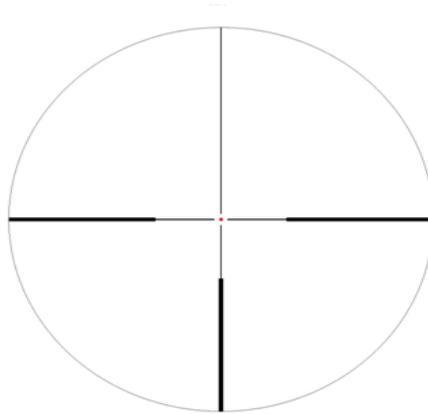


Fig. 11.2



Fig. 11.3

## 12.0 USING YOUR 4A EUROPEAN RETICLE & ADJUSTING THE ILLUMINATION INTENSITY



Your Superior scope comes equipped with a 4A European style illuminated reticle. This reticle is especially good for low light conditions. In addition, this reticle provides for an un-obstructed top view in which you can first scan for your target as you look through your scope. The thicker outer black lines make it easier to acquire your target especially when you have a dark background or low light conditions.

This scope features 6 different red dot intensity levels. Between each intensity level, there is an off position, marked as 0. The off (0) position between each intensity level makes it easier to turn off your illumination and quickly turn on the illumination to the last intensity level used in just one click.

To adjust your red dot illumination intensity level, see the below step:

**STEP 1:** Turn the illumination intensity dial in either the clockwise or counter-clockwise direction to the desired intensity level. There are a total of 6 intensity levels. 1 is the lowest intensity level, while 6 is the highest intensity level. Each step marked with a 0 turns off the illumination. **See Figure 12.1.**



Fig. 12.1

## 13.0 MAINTAINING YOUR SCOPE

Your new Superior rifle scope will provide you a life time of use. To maximize the performance of your scope, please see the below maintenance instructions.

### 1) Lens Cleaning:

Keeping your lenses clean is important. Dirt and debris on the lenses or improper cleaning can remove coatings and reduce the overall quality of your image.

To clean your lenses, a lens pen brush or camera brush can be used to remove loose particles of dirt or dust. A camera cleaning kit is inexpensive and available at camera retailers.

**CAUTION:** Do not use water or window cleaning products to clean lenses, as the minerals in the water or cleaning products may remove the lens coatings.

### 2) Rifle Scope Outer Surface:

Use a soft dry cloth to wipe off fingerprints or dirt that may be on the scope's exterior surface.

### 3) Windage / Elevation Adjustments:

Do not attempt to oil or lubricate the windage and elevation adjustments. These adjustments come lubricated by the factory and do not require additional lubrication.

### 4) Fast Focus Eyepiece Adjustment:

This adjustment comes lubricated by the factory and does not require additional lubrication.

### 5) Power Change Ring:

No lubrication is required for the power change ring.

**CAUTION:** Never use your scope as a lever to twist rings into proper placement. Damage to the scope may occur. In order to understand proper mounting procedures or gun related issues, we strongly suggest seeking the advice of a qualified gunsmith or trained firearm expert.

#### **14.0 SERVICING YOUR SCOPE**

Should your Superior scope ever require service, please contact Superior at: **service@superiorscope.com**. We will provide you a return address.

Please package your scope securely when returning it for service.

1. Please include a detailed description of the problem.
2. Include your daytime telephone number and / or your email address (if available).
3. Remove all rings, caps and sunshades. Return the rifle scope only.

## **15.0 SUPERIOR LIFETIME LIMITED WARRANTY**

Superior will repair this product, or replace this product at Superior's sole discretion, free of charge. This warranty only covers failure due to defects in materials or workmanship which occur during normal and regular use. It does not cover damage which occurs in shipment, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, damage that due to "acts of God" or service by anyone other than the Superior factory.

There are no express warranties except as listed above.

Superior shall not be liable for incidental or consequential damages resulting from the use of this product or arising out of any breach of this warranty. All express and implied warranties, including the warranty of merchantability and fitness for a particular purpose, are limited to the applicable warranty period set forth above.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or these limitations may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

If you experience a problem with this product during or after the warranty period, you should contact Superior.

## 16.0 GLOSSARY

### **Adjustable Objective – (Your Superior scope features a side parallax adjustment)**

An adjustable objective is a dial around the objective end of the scope, or a knob on the left side of the turret housing that allows you to adjust your scope's parallax to a certain distance by moving these adjustments until a clear picture is achieved. The correct setting of an adjustable objective prevents the apparent movement (called Parallax) between the reticle and the target when the shooter moves his head off center of the rifle scope.

### **Airgun Scope - (Your Superior scope is airgun rated)**

Airgun scopes are designed to handle the dual-recoil of spring piston airguns. Strong spring piston airgun recoil will cause damage to non-airgun scopes.

### **Coatings - (Your Superior scope is Fully Multi-Coated)**

Coatings on the lens surfaces help to reduce the amount of light lost when refracting through the lens, which in turn increases light transmission. Multiple coatings in general offer better quality viewing. Lens coatings are often described using the below terminology:

- Coated: A single layer on at least one lens surface.
- Fully Coated: A single layer on all air to glass surfaces.
- Multicoated: Multiple layers on at least one lens surface.
- Fully Multicoated: Multiple layers on all air to glass surfaces.

### **Click - (Your Superior scope utilizes ¼ MOA click adjustments at 100 yards).**

A click is one adjustment on the windage or elevation turret of a scope. One click commonly changes a scope's point of impact by either a 1/4 inch at 100 yards or ¼ MOA at 100 yards.

### **Exit Pupil**

An exit pupil is the small circle (column) of light that is visible in the ocular lens. Larger exit pupils allow for more light to enter into your eye, and thus provide brighter images. To calculate the exit pupil for your scope, divide the objective lens diameter in millimeters by the magnification. For example, if your scope is six power (6X), and your objective lens is twenty-four millimeters in diameter (24mm), divide 6 into 24 and it equals 4. Four would be the exit pupil size in diameter in millimeters.

### **Eye Relief**

Eye relief is the distance your eye should be from the ocular lens in order to see the complete field of view. For example, you should see a nice circular image in your Superior rifle scope. If not, try moving your eye either closer or further away from the ocular end of the rifle scope.

### **Field of View**

Field of view (FOV) is the amount of area seen through your scope from left to right at 100 yards. As magnification is increased, the FOV becomes less. As magnification is decreased, FOV is increased. For

example, your Superior 2.5-15x 50mm scope at 2.5X will have an FOV at 100 yards of 41.8 feet, and at 15X, the FOV would be 6.8 feet. A larger objective lens does not change the FOV.

### **Magnification**

Magnification refers to the power of the scope, indicated by the symbol "X". A 2.5-15X scope makes objects appear 2.5 times to 15 times closer than viewing with the naked eye.

### **Minute of Angle**

Minute of Angle (MOA) is a unit of measurement of a circle, and is 1.0472 inches at 100 yards. Usually it is stated as 1 inch at 100 yards, 2 inches at 200 yards, 5 inches at 500 yards, etc.

### **Objective Lens**

The objective lens is the lens closest to the object being viewed. It is measured in millimeters in diameter. A larger objective lens allows more light to enter the scope. In a 2.5 to 15 by 50 (2.5-15X50) scope, the 50 is the objective lens size.

### **Ocular Lens**

The ocular lens is the lens closest to your eye.

### **Parallax**

Parallax is the apparent position of the reticle on the target image at different distances. If you move your head either left, right, up or down from the center of the rifle scope, the reticle may appear to move as you move your head. This apparent movement indicates you have parallax.

### **Power**

The power of the scope is the same as magnification. A 1-6 power scope makes the object appear 1 to 6 times closer than with the naked eye.

### **Resolution**

Resolution is the measurement of an optical instrument's ability to produce a sharp image by distinguishing fine detail. Resolution is determined by the quality of the glass and coatings, precision manufacturing, atmospheric conditions, and visual acuity of the user.

### **Reticle**

A reticle is a system of lines, dots, or crosshairs in your scope that appear superimposed on your target.

### **Turret**

A turret is one of two knobs in the outside center part of the scope tube. They are marked in increments, and are used to adjust elevation and windage for points of impact change. These knobs protrude from the turret housing.

### **Zero**

Zero is the distance that you are sighted in at, and references the flight of the projectile. If you are sighted in at 100 yards, you have a 100 yard zero.