



USER'S GUIDE

Daytime Riflescopes



- **5x33l**
- **5x33lu**
- **2-6x40lu**
- **3-9x55lu**
- .. **4-12x60lu**
- .. **6-18x65lu**
- .. **8-24x75lu**
- .. **12-36x80lu**



American Technologies Network Corp.

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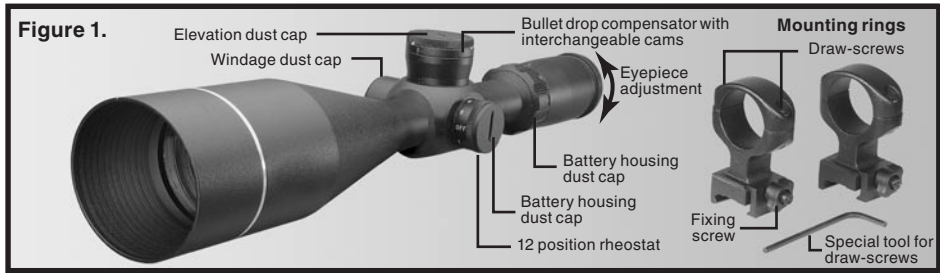


Figure 1.

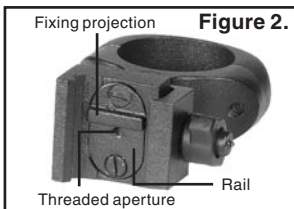
Features:

- Bullet drop compensator with interchangeable cams (except 5x33L)
- 30mm rings included (except 5x33 series)
- Illuminated Reticle with an 12 position rheostat
- Step Range Finder
- 1/8 MOA at 100 Yards
- All glass multi-coated optics
- Extra large objective lenses
- Prosheild and Everlight Lens coatings
- Sun shade

Mounting:

Riflescopes can be mounted utilizing 30mm mounting rings. ATN mounting rings allow to change the position of the rifle-scope on the weapon in relation to a shooter by 1/3 of inch. Thus obtained, such positions are additional to the already available fixed positions on the weaver rail.

For this purpose in the base of a mounting ring there is a rail with a fixing projection.



In case you need to change the position of the riflescope additionally please follow the steps mentioned below for both rings:

1. Loosen the two screws, which attach the rail to the ring.
 2. Take the rail out of the groove.
- NOTE: If the rail is not taken out easily screw up to the stop one of the screws into the threaded*

aperture in the middle of the rail. Continue rotating of the screw. Thus the screw will push out a rail from a groove.

3. About-face the rail.
4. Put the rail into the groove.
5. Fix the rail with the two screws.

For mounting the riflescope on the weaver rail:

1. Loosen the fixing screws on the sides of the mounting rings.
2. Place the riflescope on the weaver rail so that the projection of the rail, which is in the base of the ring, enters the recess in the rail.
3. Tighten the fixing screws of the mounting rings.

CAUTION: Be sure gun is not loaded. Use safe gun handling procedures at all times.

Focusing:

While holding the scope about four inches from your eye, quickly glance through the eyepiece at a featureless, flatly lit bright area such as a wall or the sky.

CAUTION: Viewing the sun can cause serious eye injury, never look at the sun with this product or even the naked eye.

If the reticle is not sharply defined instantly, turn the eyepiece (either direction) a few turns.

Quickly glance through the scope again. If the focus has improved, but is still not perfect, continue focusing. If the focus condition become worse turn the focus the opposite direction.



NOTE: Unlike the other sights, 12-36x80 have additional system for focusing when shooting at small distance (Fig.3).

For shooting at the distance up to 100 yards - turn focusing ring in the direction to the mark 100 m against stop.

For shooting at the distance over 100 m turn the focusing ring in the direction to the mark ∞ against stop.

Pre-zeroing:

Pre-zeroing is recommended and can be done with a scope guide or own instructions.

CAUTION: Be sure gun is not loaded. Use safe gun handling procedures at all times.

Zeroing:

CAUTION: All shooting should be done at an approved range or other safe area. Eye and ear protection is recommended.

Danger:

If you used a bore-obstructing device, remove it before proceeding. If the barrel has been drilled for a mount, check that the screws do not protrude into the bore. Do not fire live or even blank ammunition with an obstructed barrel. An obstruction can cause serious damage to the gun and possible personal injury to yourself and others nearby.

From a steady rest position, fire three rounds at a 100 yard target.

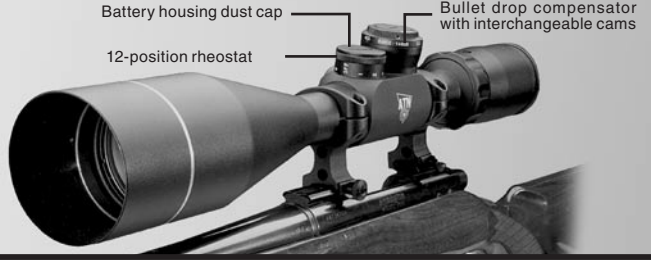
Observe bullet strike on target and adjust windage and elevation screws as needed to correct aim. You will need to remove the dust caps from the top of the windage and elevation adjustments to do this.

NOTE: Each click of adjustment changes bullet strike by the amount shown on the chart below.

Figure 4.



Interchangeable cams for bullet drop compensator



Windage/Elevation
(inches of movement per click)

50 Yards - 1/16"
100 Yards - 1/8"
200 Yards - 1/4"
300 Yards - 3/8"

When you have finished zeroing, replace windage and elevation dust caps.

Electronic Reticle:

Your scope has an Electronic reticle. There are 12 degrees of illumination. The rheostat is the knob located at the back of the scope. It is labeled with numbers 0 through 11. When the rheostat is set at 0 you will see a black etched reticle. The reticle will light up red electronically as you rotate the rheostat through the numbers, 11 being the brightest.

Using the ATN Rangefinder Reticle:

The rangefinder reticle in your scope was designed to assist you in determining the range of your target. These distances are based on a 6' target, if a 6' target fits between the numbered baseline and the post of the reticle above the baseline determines your distance. If a 6' target fits between the horizontal post of the reticle and 2 the target is 200 yards away. If the same target fits between the 4 and the horizontal post of the reticle the target is 400 yards away. The same is with the 6 and 10. The target

would be either 600, 800 or 1000 yards away.

NOTE: The 5x33 series and the 2-6x40 utilize a range finder based on a three foot target.

Bullet drop compensator:

You should have zeroed your scope in at 100 yards. When shooting at longer ranges the bullet drop compensator can be adjusted for 200, 300, 400, and 500 yards (and 1000 yards for 8-24x65LU and 12-36x80LU). Pending on the distance click the bullet drop compensator to the appropriate setting. This will automatically adjust your reticle for that particular distance. Your scope also comes with other cams allowing you to change your bullet drop compensator to work with the different rifles.

NOTE: 12-36x80 have special mechanism for bullet drop compensation with compensator for .50 BMG. Compensator provides shooting at the distance from 200 up to 3000 yards. Turning scale (Fig.6) has marked figures 2,3,4,5,6,7,8,9,10, and 50BMG that corresponds with the distances 200, 300, 400, 500, 600, 700, 800, 900, 1000 yards.

For setting of the necessary distance combine the figure with the mark on the immovable upper part of the mechanism.

Changing the Bullet Drop Compensator:

Set the bullet drop compensator to the 100-yard range). Then

remove the elevation dust cover from the cam. Next you will find three small set screws on the bullet drop compensator right above the yardage numbers. Remove these screws and lift the cam off of the scope. Once you have done this select the desired caliber cam you would like to use and place this cam where you removed the previous one (make sure that a replacement cam is set to the 100-yard range. Then tighten the cam in place by putting the three set screws back. Finally replace the dust cover.

Figure 6. ATN Long Range Mounting System

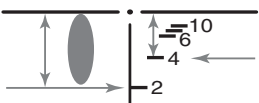


Maintaining your rifle scope:

Your rifle scope is waterproof and shockproof. However, you should never try to take apart or clean it internally (it will void your warranty). If your scope ever does need repairs or adjustments, it should be returned to ATN's service department. The exposed optical surfaces will

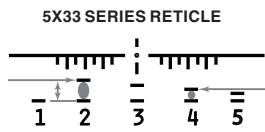
Figure 5.

If a 6' target fits between these two lines then the target is 200 yards away.



If a 6' target fits between these two lines then the target is 400 yards away.

If a 3' target fits between these two lines then the target is 200 yards away.



If a 3' target fits between these two lines then the target is 400 yards away.

perform their best if they are occasionally wiped clean with a lens cloth or with optical quality lens paper like those for eyeglasses or camera lenses. Maintain the metal surfaces of your rifle scope by removing any dirt or sand with a soft brush so as to avoid scratching the finish. Wipe down the scope with a damp cloth and follow with a dry cloth. Finally, going over the tube with a silicone treated cloth will restore luster and protect the scope against corrosion. Be careful not to touch the any of the lenses with the silicone cloth.

Reticle System:

Upon initial use of the ATN Professional Variable Power scope you may notice a somewhat unusual behavior in the reticle system. One, the reticle will increase or decrease with the power change. Two, the reticle will move from the center when you adjust windage and/or elevation. These are not defects. As the name implies, our main goal while designing this line was to provide the customer with the most accurate and reliable sighting system in the world. In order to achieve this, we had to depart from the more "conventional" designs that the American consumers are so familiar with.

Reticle Changing Size:

In any optical design the reticle has to be placed either in the front focal plane or the rear focal plane (the only exception to this rule are the Shepherd scopes which contain two reticles, one in each plane). The rear focal plane, or behind the magnification module, was the initial and less complicated, as well as less expensive solution. To this day, almost all American scopes and inexpensive imports utilize this design. However, there is an inherent flaw in this type of system. Because the magnification module is housed within sliding mechanical parts, some tolerance for lateral and vertical movement has to be allowed. Therefore, when the power is changed the point of impact may shift as much as several inches. A more reliable design is to place reticle in the front focal plane, i.e. in front of the magnification module. In this situation movement of the module will have no effect on the point of impact. The reticle will increase/decrease in direct proportion to magnification, i.e. if you change the magnification from 6x to 18x, the image is increased three times and the reticle along with it. The size of the reticle in relation to size of the

target will not change. The point of impact remains constant at all times.

Moving Reticle:

A somewhat similar situation exists with windage and elevation adjustments.

Most of the American scopes and low-priced imports adjust the front tube for windage and elevation. This action moves the whole image while the reticle remains in apparent center. While aesthetically appealing, this system lacks inherent accuracy.

In the Professional series, windage and elevation adjustments are effected by moving the reticle itself. Since in our system the objective lens is fixed, there will never be any distortion, which may appear while moving the front tube of the scope. Further more, since the reticle weighs only a few grams, it allows for extremely precise (1/8" at 100 yards), reliable, and repeatable adjustments. The optical effect of this system is that the reticle will not be located in the center once sighting in has been accomplished. This situation can be remedied however through the use of vertical and horizontal shims available any gunsmith.

The following is the table of minimum focusing distances for our variable riflescopes. As you are aware, due to their highly advanced design, our scopes have no parallax. But if they were focused on distances below minimal, a parallax-like effect (i.e. target in focus while reticle is not, or vice versa) will appear.

UNIT	2-6x40	3-9x55	4-12x60	6-18x65	8-24x75	12-36x80
2x	1	4(3x)				
4x	10	10(5x)	6			
6x	20	17(7x)	20	12		
8x		25(9x)	30	25	25	
10x			60	50	50	
12x			80	80	80	40
14x				115	115	50
16x				130	130	60
18x				150	150	70
20x					180	80
22x					200	90
24x					220	100
26x						110
28x						120
30x						130
32x						140
34x						150
36x						160

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PRODUCT WARRANTY REGISTRATION

In order to validate the warranty on your product, ATN must receive a completed Product Warranty Registration Card for each unit. Please complete the form below and immediately mail it to our Service Centre: ATN Corporation, 20 South Linden Ave. Suite 1B, South San Francisco, CA 94080. Products qualifying for warranty repair will be either repaired or replaced within 10 business days of receipt of merchandise unless the customer is notified otherwise.

OBTAINING WARRANTY SERVICE

To obtain warranty service on your unit, take or send the product, postage paid, with a copy of our sales receipt to our service centre, ATN Corporation at the address noted above. All merchandise must be fully insured with the correct postage; ATN will not be responsible for improper postage, or, missing or damaged merchandise during shipment.

LIFETIME LIMITED PRODUCT WARRANTY

This product comes with a Lifetime Guarantee against defects in both materials and workmanship. In the event a defect that is covered by the foregoing warranty occurs during the applicable period stated above, ATN, at its option, will either repair or replace the product, and such action on the part of ATN shall be the full extent of ATN's liability, and the Customer's sole and exclusive remedy. This warranty does not cover a product (a) used in other than its normal and customary manner; (b) subjected to misuse, (c) subjected to alterations, modifications or repairs by the Customer or by any party other than ATN without prior written consent of ATN; (d) special order or "close-out" merchandise or merchandise sold "as-is" by either ATN or the ATN dealer; or (e) merchandise that has been discontinued by the manufacturer and either parts or replacement units are not available due to reasons beyond the control of ATN. ATN shall not be responsible for any defects or damage that in ATN's opinion is a result from the mishandling, abuse, misuse, improper storage or improper operation, including use in conjunction with equipment which is electrically or mechanically incompatible with or of inferior quality to the product, as well as failure to maintain the environmental conditions specified by the manufacturer. This warranty is extended only to the original purchaser. Any breach of this warranty shall be waived unless the customer notifies ATN at the address noted below within the applicable warranty period.

THE CUSTOMER UNDERSTANDS AND AGREES THAT EXCEPT FOR THE FOREGOING WARRANTY, NO OTHER WARRANTIES WRITTEN OR ORAL, STATUTORY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THE PRODUCT. ALL SUCH IMPLIED WARRANTIES ARE HEREBY AND EXPRESSLY DISCLAIMED.

Model	5x33L	5x33LU	2-6x40LU	3-9x55LU
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Magnification	5	5	2-6x	3-9x
Objective Diameter	33 mm	33 mm	40 mm	55 mm
FOV	4°	4°	10°-3,2°	7°-2,2°
FOV@100m(feet)	21	21	52.2-16.8	36.6-11.4
Mounting	30 mm Rings	30 mm Rings	30 mm Rings (included)	30 mm Rings (included)
Bullet Drop Calibers*	.223	.223,.308, 30-.06,.270,7mm Mag,.300 Win Mag	.223,.308, 30-.06,.270,7mm Mag,.300 Win Mag	.223,.308, 30-.06,.270,7mm Mag,.300 Win Mag
Rangefinding	500m	500m	500 m	1000 m
Illuminated Reticle	Yes	Yes	Yes	Yes
Length	263 mm	285 mm	268 mm	332 mm
Width	58 mm	58 mm	75 mm	75 mm
Height	58 mm	70 mm	72 mm	79 mm
Weights	0,55 kg	0,65 kg	0,8 kg	1,0 kg
Eye Relief	75 mm	75 mm	90 mm	90 mm
Battery Life	100 Hours	100 Hours	100 Hours	100 Hours
Power Source	3v CR2432 (included)	3v CR2432 (included)	3v CR2432 (included)	3v CR2432 (included)
Sun Shade	No	No	Yes (50 mm)	Yes (64 mm)
Recomended Use*	Tac,SG	Tac,SG	Tac,WFB	Ver

Adjustment Windage and Elevation at 100 m

1 click = 1/8 MOA

*Cams included

**Tac=Law Enforcement, BG= Big Game, DG=Dangerous Game, SG= Small Game, T=Target, V=Varmint, WFB= wide field brush country, Ver= Versatile, S50= specialized 50 Bmg.

Model	4-12x60LU	6-18x65LU	8-24x75LU	12-36x80
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Magnification	4-12x	6-18x	8-24x	12-36x
Objective Diameter	60 mm	65 mm	75 mm	80 mm
FOV	5°-2°	3.3°-1.5°	2.2°-1°	1.5°-0.67°
FOV@100m(feet)	26.4-10.2	17.4-7.8	11.4-5.4	7.8-3.6
Mounting	30 mm Rings (included)	30 mm Rings (included)	30 mm Rings (included)	Long Range Mounting System
Bullet Drop Calibers*	.223, .270, .308, 30-06, 7mm Mag	.22-250, .308, 30.06, .270, 7mm Mag, .300 Win Mag	.22-250, .308, 30.06, .270, 7mm Mag, .300 Win Mag	.50 BMG
Rangefinding	1000m	1000m	2000 m	3000 m
Illuminated Reticle	Yes	Yes	Yes	Yes
Length	370 mm	453 mm	428 mm	500 mm
Width	73 mm	84 mm	75 mm	85 mm
Height	61 mm	60 mm	92 mm	85 mm
Weights	1.2 kg	1.3 kg	1.56 kg	1,8 kg
Eye Relief	90 mm	115 mm	90 mm	90 mm
Battery Life	100 Hours	100 Hours	100 Hours	100 Hours
Power Source	3v CR2432 (included)	3v CR2432 (included)	3v CR2432 (included)	3v CR2432 (included)
Sun Shade	Yes (71mm)	Yes (73mm)	Yes (85mm)	Yes (88mm)
Recomended Use*	T,BG,V	T,V	T,V	S50

Adjustment Windage and Elevation at 100 m

1 click = 1/8 MOA

*Cams included

**Tac=Law Enforcement, BG= Big Game, DG=Dangerous Game, SG= Small Game, T=Target, V=Varmint, WFB= wide field brush country, Ver= Versatile, S50= specialized 50 Bmg.

Daytime Riflescopes



5x33l



2-6x40lu



5x33lu



3-9x55lu



4-12x60lu



8-24x75lu



6-18x65lu



12-36x80lu



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