

In the event that you should require service for your Nikon RIFLESCOPE, in case of USA market, please send it directly to:Nikon Scope Service
841 Apollo Street, Suite 100
El Segundo, CA. 90245-4721
1-800-Nikon SV.
In other market, please bring it to dealer from which you purchased it.

Manufacturer: **NIKON VISION CO., LTD.**
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Congratulations on your choice of a Nikon M-223 Riflescope. Your new scope is the finest example of Nikon's rugged and durable construction and precision bright optics; important qualities for a serious shooter's riflescope.

Whether you use your scope for hunting or for target shooting, the procedure for mounting is identical. You should acquire a set of high quality mounting rings which have a standard diameter of 25.4 mm (1 inch). Follow the ring manufacturer's instructions for mounting procedures. After mounting the scope on your Rifle, follow the procedures for reticle alignment.

When setting the reticle for hunting, you should determine your standard range and then adjust the reticle based upon that target distance. For targets which vary from that standard distance you may simply adjust the position of the reticle in relation to your target, or you may wish to use the procedure for trajectory compensation. It's up to your personal preference.

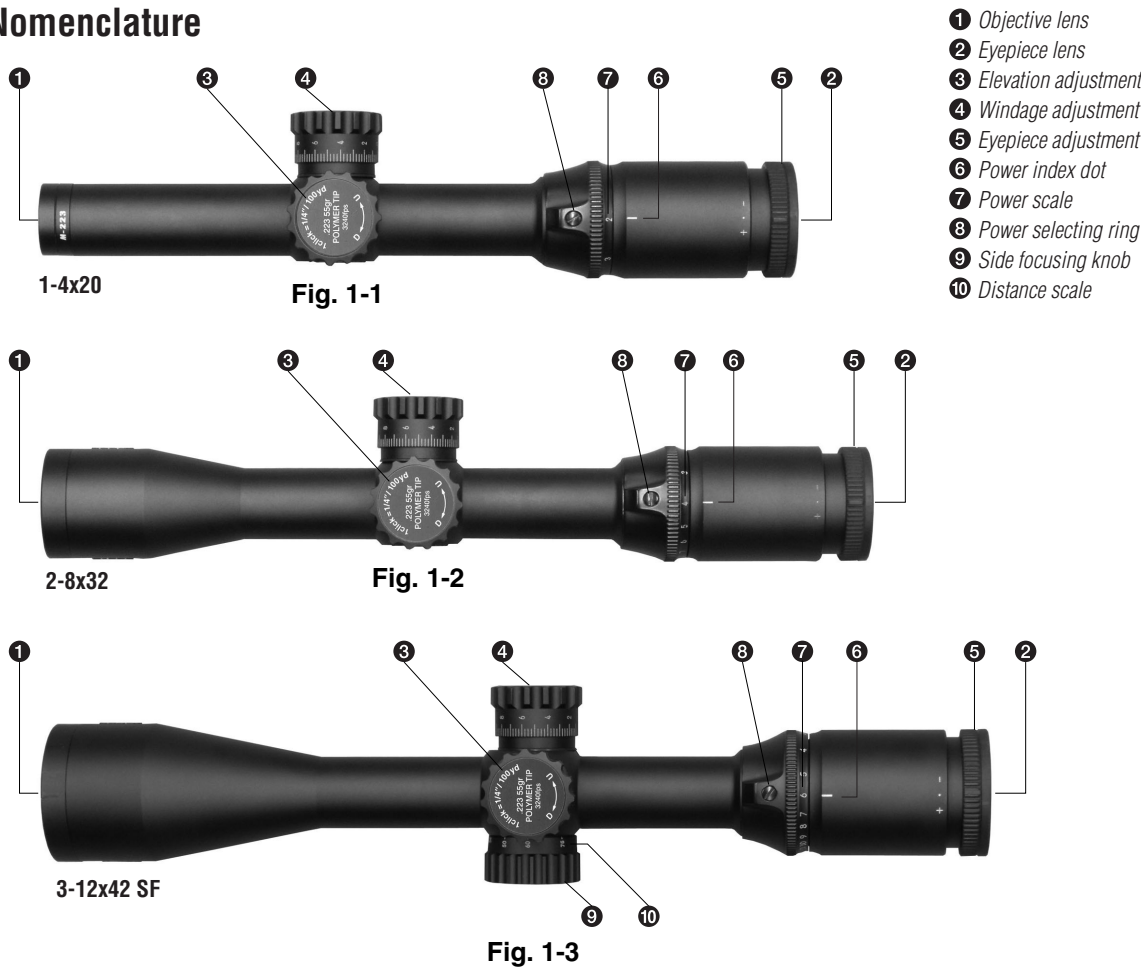
We hope that you will enjoy your new Nikon M-223 Riflescope for many years to come. Enjoy using it, and above all, always follow safe shooting procedures!

Caution

- (1) Do not look at the sun through the riflescope. It will permanently damage your eye. This precaution applies to all optical devices such as cameras and binoculars.
- (2) The riflescope is effectively sealed against moisture and dust. You may use your scope safely either in the rain or in dusty climates. To preserve the appearance of the scope, we suggest that it be dried and cleaned prior to storage. Use a soft cloth for cleaning metal surfaces and use photographic lens tissue to clean the scope's lenses.

The product(s) described herein may be subject to export control regulations in the relevant country(ies). It (they) should not be exported without authorization of the exporting governmental authority if the regulations apply.

1. Nomenclature



2. Specifications

Model	1-4x20	2-8x32	3-12x42 SF
Actual Magnification	1x-4x	2-8x	3-12x
Objective Diameter	(mm) (in) 20 0.79	32 1.26	42 1.65
Exit Pupil	(mm) (in) 5.0 0.20	4.0 0.16	3.5 0.14
Eye Relief	(mm) (in) 104.1-101.6 4.1-4.0	101.6-96.5 4.0-3.8	101.6-94.0 4.0-3.7
Field of View at 100yds.	(m) (ft) 28.3-7.0 92.9-23.1	14.1-3.5 46.2-11.5	10.2-2.6 33.6-8.4
Tube Diameter	(mm) (in) 25.4 1	25.4 1	25.4 1
Objective Tube Diameter	(mm) (in) 25.4 1.00	39.3 1.55	49.3 1.94
Length	(mm) (in) 237 9.33	292 11.50	333 13.11
Weight	(g) (oz) 394 13.9	432 15.2	563 19.3
Adjustment Graduation	(moa) 1 click = 1/4"	1 click = 1/4"	1 click = 1/4"
Maximum Internal Adjustment (Elevation & Windage) * *	(moa) 120	80	60
Parallax Setting (at factory) * * *	(m) (yards) 91.44 100	91.44 100	45.72~∞ 50~∞
Outside Diameter of Eyepiece	(mm) (in) 41 1.61	41 1.61	44 1.73
Structure	Depth of 2 meters for 10 minutes and Nitrogen gas		

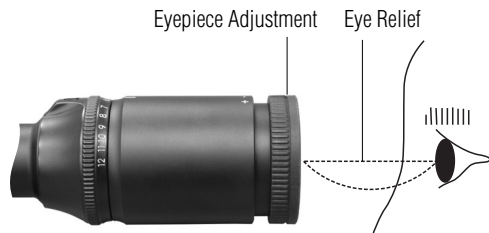
* (at minimum magnification) - (at maximum magnification)
* * moa = minute of angle
* * * Nikon riflescope are factory set to be parallax free at 100 yards (91.44 m).
3-12x42 SF allow free adjustment from 50 yards up to infinite point.

	1-4x20	2-8x32	3-12x42 SF
Variety of Reticle	Point Blank	Nikoplex	Nikoplex
		BDC 600	BDC 600

3. Instructions

(1) Focusing

- Look through the eyepiece with your eye positioned about 10cm (4 in) away from the eyepiece lens (Fig. 3-1), and you will see the Nikoplex reticle (Fig. 3-2), the BDC 600 (Fig. 3-3), or the Point Blank Reticle (Fig. 3-4). Be sure your eye is positioned within proper alignment and proper eye relief otherwise the view will "black out".
- Point the objective end of the scope at the sky (Do not point at the sun) or at a plain unpatterned wall. Turn the eyepiece adjustment counter-clockwise and then turn it clockwise until the reticle appears sharp.

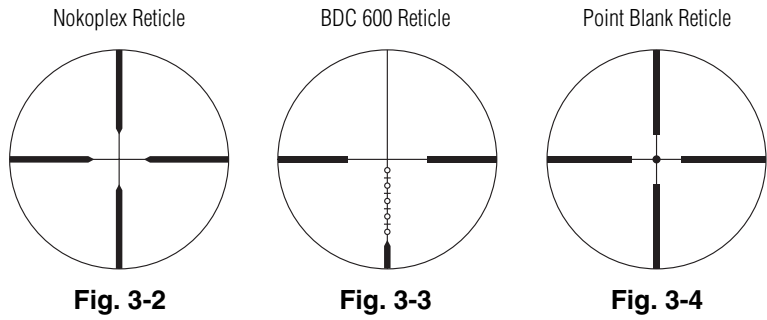


M-223 Riflescope

1-4x20/2-8x32/3-12x42 SF

Instruction manual

E



BDC 600 Reticle
Developed specifically for the trajectory of the .223 Rem./5.56 NATO round with 55-grain polymer tip bullet(3240 fps), the new BDC 600 reticle offers shooters unique open circle aiming points and hash marks from 100 to 600 yards. Refer the Users guide of BDC 600.

Point Blank Reticle
Available exclusively on the M-223 1-4x20, this reticle delivers fast, extremely accurate shots from zero out to a 200 yard range "point blank range" for the .223/5.56mm 55-grain polymer tipped round.

(2) Magnification

The M-223 Riflescope 3-12x42 has a variable magnification from 3 to 12x, 2-8x32 from 2 to 8x and 1-4x20 from 1 to 4x. To change powers, just rotate the power selector ring until the desired magnification appears adjacent to the power index dot (Fig. 1-1, 1-2, 1-3).

(3) Adjustment of the riflescope

Sighting through the riflescope, align the rifle with your aiming point on the target and shoot a trial round. If the bullet does not hit the aiming point, adjust the elevation and windage as follows:

For the M-223 Riflescope adjustment is made by turning the grip by hand. If the bullet hits under the aiming point, turn the grip in the direction of the arrow marked "U". If the bullet hits to the left of the aiming point, turn the grip in the direction of the arrow marked "R".

(4) Adjustable Parallax setting

The M-223 Riflescope 3-12x42 SF can be more precisely focused within the range of at least 50 yards (45.72m) - infinity by rotating the side focus adjustment. Parallax can be eliminated and sight alignment will be accurate.

Use it's distance scale as a reference guide.

The adjusting ring has a lock system, so that it will not move during shooting.

When adjusting the focus, pull out the adjusting ring. For lock push in the adjusting ring. (Fig. 3-5)

Note:

- The windage and elevation scales of the M-223 Riflescope are calibrated in divisions of 1/4 minute of angle with a click at intervals of 1/4 minute of angle.
- When adjusting the reticle to the point of aim, remember that one minute of angle equals approximately one inch (2.54 cm) at 100 yards (91.44 m). Therefore, if the impact point is two inches (5.08 cm) low and one inch (2.54 cm) right at 100 yards (91.44 m), you should adjust two minutes of angle up one minute of angle left.

(5) Zero setting of scale grip

The adjusting ring has a pop-up zero adjusting system.

After the reticle has been adjusted to the point of impact, for zero setting pull out the adjusting ring.

The adjusting ring can turn freely now, and align the zero number to index line, then push in the adjusting ring to set. (Fig. 3-5)

(6) 100 yards setting of Rapid Action Turret

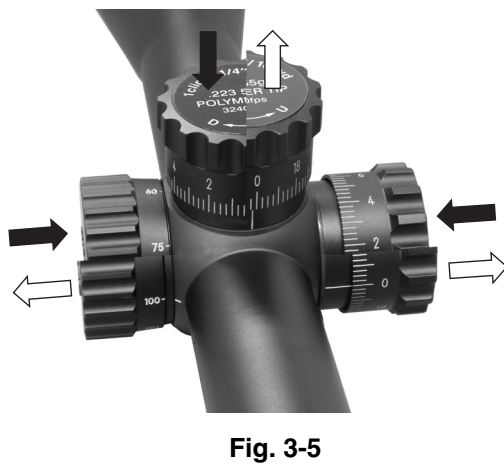
The Rapid Action Turret has a pop-up zero adjusting system.

After the reticle has been adjusted to the point of impacts at 100 yards, for 100 yards setting pull out the Rapid Action Turret.

The Rapid Action Turret can turn freely now, and align the 100 number to index line, then push in the Turret to set.

(7) Pop-up Zero / 100 yds setting and Focus adjusting system

Side focus knob and Elevation and windage adjusting knob has a pop-up setting / locking system.



	Pop-up	Pop-down
	←	→
Elevation	Free	0-set / 100 yds set
Windage	Free	0-set
Side Focus	Set distance	Lock

Slide focus knob

Pop-up : set a distance, Pop-down : set a lock.

Elevation and Windage knob

Pop-up : knob can turn freely, Pop-down : set a zero point / 100yards.

Maintenance

(1) Lens cleaning

To remove dirt or fingerprint, soak gauze or lens cleaning paper (silicon-free paper sold at camera shop) with a small quantity of absolute alcohol (available from drugstore) and lightly wipe off. Wiping with handkerchief of leather is not recommended as it is likely to damage the lens surface.

Dust may scratch the lens surface or corrode the lens.

Brush dust off using a soft oil-free brush.

(2) Scope Exterior

Use a soft dry cloth to wipe off any dirt or finger-prints that might accumulate.

It is not necessary to oil the scope's surface.

(3) Windage/Elevation Adjustments

These adjustments are permanently lubricated. Do not attempt to lubricate them. Cover with caps supplied, except when adjusting, to keep out dust and dirt.

(4) Eyepiece Adjustment

This adjustment is permanently lubricated. Do not attempt to lubricate.

(5) Power Selector Ring

No lubrication is required on the power selector ring.

Do not loosen or remove screws in power selector ring.

Waterproof models:

The Nikon Riflescope is waterproof, and will suffer no damage to the optical system if submerged or dropped in water to a maximum depth of 2 meters for up to 10 minutes.

The Nikon Riflescope offers the following advantages:

- Can be used in conditions of high humidity, dust and rain without risk of damage.
- Nitrogen-filled design makes it resistant to condensation and mold.

Observe the following when using the Nikon Riflescope.

- The unit should not be operated nor held in running water.
- Any moisture should be wiped off before adjusting movable parts (Elevation / Windage adjustment knob, eyepiece, etc.) of the Nikon Riflescope to prevent damage and for safety reasons.

To keep your Nikon Riflescope in excellent condition, Nikon Vision recommends regular servicing by an authorized dealer.