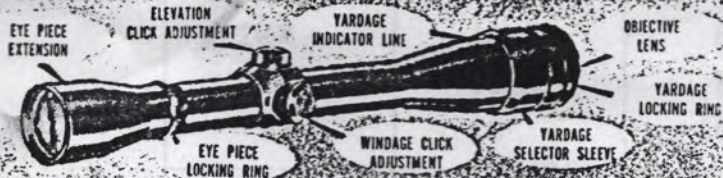


Lyman

ALL-AMERICAN
PERMA-CENTER SYSTEM

TELESCOPIC
SIGHTS

OPERATING INSTRUCTIONS



SPECIFICATIONS

**ONE OF THESE FINE SCOPES
IS MADE TO ORDER FOR YOU
YOUR RIFLE, YOUR KIND OF SHOOTING**

Select your scope on the basis of power or magnification. Lower powers give you widest field of view; they're excellent for snapshots of running game, or deer-stalking in dense woods. The higher powers with their narrow fields are for long range big-game hunting, and varmint shooting.

POWER	LENGTH	WEIGHT
2½X	10½"	8¾ oz.
3X	11"	9 oz.
4X	12"	10 oz.
6X	13⅞"	12¼ oz.
8X	14⅜"	13 oz.
10X	15½"	13½ oz.

TUBE DIAMETER	WINDAGE AND ELEVATION ADJUSTMENT — CLICK VALUES AT 100 YARDS <i>(For click values at 50 yards, divide by 2. At 200 yards, multiply by 2.)</i>	FIELD OF VIEW AT 100 YARDS <i>(Width of area viewed in scope at given distance)</i>	EYE DISTANCE OR RELIEF OPTIMUM	FACTORY PRE-SET PARALLAX — CORRECTED RANGE OPTIMUM
1"	1"	43'	3¼—5"	100 yards to infinity
1"	7/8"	35'	3¼—5"	
1"	¾"	30'	3¼—5"	
1"	½"	20'	3¼—5"	150 yards to infinity
1"	⅓"	14'	3¼—5"	Adjustable for parallax correction
1"	3/10"	12'	3¼—5"	

PERMA-CENTER SCOPE RETICULE SELECTION CHART

In the Perma-Center System the image is actually moved across the reticule. Thus the reticule is always centered in the field of view and never interferes with the sight picture.

The chart at the right represents that amount of target area covered by the reticule at the optimum range of 100 yards.

SCOPE MODEL	NO. 7 STANDARD CROSSWIRE	NO. 5 TAPERED POST AND CROSSWIRE
	Available center subtends at 100 yds.	Available Post Tip subtends at 100 yds.
2½X	2"	1½—2"
3X	1½"	1½—2"
4X	1¼"	1¼—1¾"
6X	½"	1¼—1¾"
8X	⅜"	1 — 1½"
10X	¼"	¾—1¼"

NO. 6 TAPERED
POST

4 MINUTE
DOT

3 MINUTE
DOT

2 MINUTE
DOT

1 MINUTE
DOT

½ MINUTE
DOT

Available
Post Top
Subtends
at 100 Yds.

Available Dot Subtends at 100 Yds.

→ 1½—2"	4"	3"	2"	—	—
1½—2"	4"	3"	2"	—	—
• 1¼—1¾"	4"	3"	2"	—	—
1¼—1¾"	—	3"	2"	1"	—
1 —1½"	—	—	2"	1"	½"
¾—1¼"	—	—	2"	1"	½"

WHAT ABOUT PARALLAX?

The Lyman 8X and 10X Perma-Center Varmint Scopes are designed so that adjustment to remove parallax can be made for the specific distances at which the scope is to be used. The 50-yard setting removes virtually all discernible parallax at ranges of 50 to 100 yards. The 100-yard setting does the same at ranges of 100 to 200 yards. The 200-yard setting from 200 yards

to infinity. If desired, the adjustments may be set at any point between the graduations to achieve an ultra fine degree of parallax adjustment. Bear in mind, when adjustment is made to any of the yardage indicators, any parallax present at ranges slightly above or beyond specified setting would be insufficient to cause sighting error.

PARALLAX ADJUSTMENT FOR 8X AND 10X SCOPES

1. First check the forward end of your scope to be certain that the 100-yard graduation is flush with the indicator line. All adjustments are made from this point; it is most important that it be returned to this setting before any adjustments are made.
2. Loosen the locking ring on the forward end of the scope.
3. With the objective lens (forward end) pointing away from you, twist the yardage selector sleeve to your right for the 50-yard setting, or to your left for the 200-yard setting, until the desired yardage reading is flush with the indicator line. It is never necessary to turn this selector sleeve more than one full turn.
4. Turn the locking ring tight. Adjustment is never completed until this ring is tight.

WINDAGE AND ELEVATION ADJUSTMENTS

These adjustments are accomplished by positive click movements. Each click has a known value in terms of moving the point of impact a prescribed distance on the target at a known range. For click values for the various scopes at 100 yards see specification chart, pages 2 and 3.

RE-ZEROING THE PERMA-CENTER RETICULE

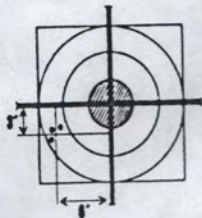
Your scope is pre-set at the factory, to provide perfect centering. However, if the windage and elevation screws have been turned since the factory setting, they can be re-zeroed by first unscrewing both the elevation and windage screws counter-clockwise until they come to a stop. Then turn each screw clockwise four full turns. This will provide the zero or centered setting.

FOCUSING RETICULE

1. Loosen the knurled ring on the eyepiece.
2. Back off the eyepiece several turns away from the knurled ring.
3. With the telescope pointed skyward (not at an object or target), start to turn the eyepiece toward the knurled ring until the reticule becomes clear and distinct.
4. Tighten the knurled ring against the end of the eyepiece.
5. You are now in focus for reticule.

SIGHTING IN

1. For best results, select a target at least one yard square.
2. Set it at a distance of 100 yards.
3. Take a bead on the center of the target and fire a 3-shot group. If possible, use a rest, and maintain the same hold for each shot.
4. Now measure the distance from the center of the target to the 3-shot group, and adjust the scope. For example, if you are using a 4X scope and the group is 3" low and 6" left of center, adjust the elevation 4 clicks up and 8 clicks to the right. This adjustment may vary slightly, depending on the caliber of the rifle, but any additional adjustment can then be made easily to achieve precise zero.



Turn up 4 clicks
Turn left 8 clicks

FACTORY SERVICES

1. Reticule change, all scopes to dot reticule. 2. Reticule change, No. 7 to No. 5, or No 5 to No. 7 crosswire. 3. Clean and refocus. 4. Clean, focus and refinish. 5. Parallax adjustment for less than standard yardage.

QUOTATIONS

See your Lyman Scope Dealer or write to the factory.

- To protect lenses against damage when storing and transporting your rifle, we recommend the use of Storm Queen End Caps.
- Do not remove sealing material from any threads on scope, for if you do the scope will no longer be weather tight, and weatherproof guarantee will be void.
- Do not open either end of the scope. This permits moisture laden air to enter the telescope and when confined will result in condensation when the temperature changes.
- Do not attempt to remove the lenses or the seal against moisture will be broken.
- If hunting in cold climate keep gun and scope in cool place within the house. This prevents possible condensation from temperature changes.
- Remove oil from tube where it is under mount. This permits slide-proof grip by mount without over-tightening.
- Be certain to position scope in mount brackets to maintain optimum eye distance of $3\frac{1}{4}$ ".
- Use only soft cloth or lens tissue to wipe lenses.
- If lenses become smeared with oil or foreign matter — use lens cleaning fluid obtainable from most optometrists. Do not use fluids containing alcohol.

In the installation of the telescope on the rifle, check all mount parts to make sure that hold down screws are secure, for a large percentage of erratic shots can be attributed to loose mounting.



THE MAN WHO OWNS A **Lyman**

ALL-AMERICAN PERMA-CENTER TELESCOPIC SIGHT

is a man equipped to enjoy the enormous fun of shooting . . . and take pride in his marksmanship. He owns the best scope in the world . . . and he can't miss.

In addition to telescopic sights, Lyman Gun Sight Corporation is one of the world's foremost manufacturers of . . .

- Shotguns Chokes
- Shotgun Sights
- Metallic Rifle Sights
- Reloading Tools, Dies and Accessories for rifles, pistols and shotguns
- Bullet Casting Tools and Accessories

All of these products for the sportsman are available through Authorized Lyman Dealers — 1,500 of them across the United States and abroad. Check with the Dealer in your area, or write us direct, for a copy of our latest general catalog describing the entire Lyman gun accessory line.

Telescopic Sight Division • The Lyman Gun Sight Corporation • Middlefield, Conn., U.S.A.

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