

LYMAN

TARGETSPOT SCOPES

8 AND 10 POWER



All Scopes Have Hard Coated Lenses

OUTSTANDING FEATURES

1. Objective lens adjustment for perfect focus made with graduated sleeve and non-rotating lens.
2. Easy focusing adjustment to effectively remove parallax.
3. Twice as large a field as other scopes of the same magnification. 8X, 14 feet; 10X, 12 feet at 100 yards.
4. Objective lens diameter of $1\frac{1}{8}$ inches gives exceptionally brilliant and colorless flat field to extreme edge.
5. Lyman 3-point micro-click rear mount graduated to $\frac{1}{4}$ minutes of angle.
6. 3-point suspension front mount.
7. Permits spotting shots up to 100 yards under reasonable light conditions.
8. Wide field makes holding easier.

The Targetspot is designed for the target shooter. Mechanically and optically it is made to the highest standards.

FOCUSING OBJECTIVE LENS

A feature of design is the non-rotating objective or front lens and the method of adjustment made on this lens by the graduated rotating sleeve. The front extension has graduated markings for 50 ft., 25 yds., 50 yds., 100 yds. and 200 yds. The shooter may easily adjust for perfect focusing on different ranges which also corrects for parallax. In a telescope sight, parallax is nothing more than the scope being out of focus for range desired. For details of adjusting, see paragraph on "Method of Adjustment."

LENSES

Targetspot Scopes offer an unusually large field of vision, approximately twice as large as other scopes of equal power. The 8X gives 14 feet diameter field at 100 yards and the 10X field is 12 feet at 100 yards. The hard coated objective lenses which are $1\frac{1}{8}$ inches in diameter give exceptionally brilliant and colorless, flat field to the extreme edge. The advantage of the large field enables the shooter to hold with less effort notwithstanding the high magnification, and definitely aids in making better scores. The shooter using a Lyman Targetspot Scope will find that the ease in holding will be relative to a scope of much less magnification.

Each scope is designed for 2 inch eye relief. There is a relief adjusting stop the same as found on other Lyman Scopes which may be adjusted by the shooter so that when the relief adjusting stop is against the frame of the front mount the eye relief will be correct for his comfortable shooting position.

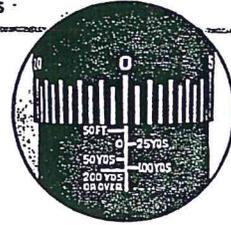
Both objective and ocular lenses are protected by threaded metal end caps when not in use and a rubber eye lens shade cap is furnished for the ocular lens.

The length of each scope is 22 in. with a weight of 24 oz. The shipping weight is approximately 4 pounds.

SPOTTING

Shooters will find both the 8X and 10X scopes not only highly satisfactory for aim-

Adjusting sleeve with graduations may be readily focused for ranges marked on the front extension. This adjustment also removes parallax.



ing the gun in target shooting, but under reasonable light conditions will be able to spot the shots up to 100 yards. This will be valuable to the shooter who is competing in matches where time limits are rigidly enforced or who may not find it convenient to use a spotting scope separate from the gun.

3-POINT REAR MOUNT

The Lyman 3-point suspension $\frac{1}{4}$ minute click rear mount provides markings on the windgauge and elevation bosses that read the same as a micrometer. For example, one click of the knob changes the center of group $\frac{1}{4}$ inch at 100 yards where bases are 7.2 in. apart.

Both front and rear mounts are the 3-pt. suspension type and are furnished with the newly designed base clamp requiring bases with the circular beveled mill cut. This type clamp offers a positive and fool-proof clamping action on the hardened



Lyman 3-point mount with permanent clicks.

3-POINT FRONT MOUNT

The weight of the scope in the front mount is supported on two definite bearing points against which the scope is held by the top spring and plunger, a design found superior to bottom spring support. The rib that prevents turning is now placed on top of the scope.

RETICULES

The crosswire style reticule with .0007" diameter is furnished with Lyman Targetspot scopes. If desired, the .0005" or .001" crosswire reticule will be supplied in new scopes at no extra charge. A shooter may change reticules by unscrewing and removing the rear lens extension but caution must be exercised as the end of the reticule holder extends beyond the tube into the rear lens extension. Using a fine watch screw driver, the two screws holding the reticule can be removed and the new reticule installed.

To set the reticule so that the cross wires will be perpendicular and horizontal, loosen the two small set screws located on opposite sides of the reticule adjusting ring which is the first knurled ring back of the rear mount. This will allow the ring to be freely rotated and reticule correctly placed. After adjustment has been reached, retighten set screws and recheck setting to see that reticule has not moved during tightening operation.

METHOD OF ADJUSTING LYMAN 8X AND 10X SCOPES



SINGLE CROSS WIRE

Focusing a scope sight is to be compared with the same operation in any other optical instrument. The following tables given for proper setting of front adjusting sleeve are approximate from which the user of the scope can readily make necessary corrections for individual eyesight.

1. With the telescope pointed skyward, adjust the rear or eye lens until the cross wires appear and stay black, making sure after several minutes of trial that the wires continue to stay black and that the eye is not accommodating itself to an incorrect setting. When this adjustment is once made and locked with nut, it should not be changed unless the eye itself changes materially. The permanent ocular setting is an exclusive Lyman feature in these scopes.

2. To focus the Lyman TARGETSPOT Scopes for definite distance.

First, Refer to the table of Proper Settings of Front Adjusting Sleeve.

Second, Loosen the front lens adjusting sleeve cap.

Third, Turn the graduated sleeve to the desired range.

Fourth, Lock the Front Lens Adjusting Sleeve, UNLESS THE ADJUSTING

SLEEVE CAP HAS BEEN LOCKED NO ADJUSTMENT HAS BEEN MADE.

If the shooter finds that the scope is still out of focus, this is due to individual eyesight and may be corrected by moving the front adjusting sleeve forward or backward slightly.

3. Proper determination of eye relief by the shooter is easily accomplished by locating the rear of the scope the proper distance from the usual shooting position of the eye in order to give full vision of the field.

PROPER SETTINGS OF FRONT ADJUSTING SLEEVE FOR VARIOUS RANGES

This table shows the proper settings of the front adjusting sleeve for various ranges marked on front extension of Lyman 8X and 10X Targetspot Scopes graduated from 50 feet to 200 yards and over.

Turns indicated are changes from zero.

Ranges	Turns
50 feet.....	-4
25 yards.....	0
50 ".....	4
100 ".....	5
200 ".....	6

From two hundred yards and beyond, the focus of the objective lens is universal and therefore requires no change in adjustment.

The adjustment of the objective lens need not be disturbed for any range in game shooting. When adjusted for a mean ordinary range the slight aberration due to change to shorter or longer range is negligible except for fine target shooting.

WINDAGE AND ELEVATION VALUE FOR 8X AND 10X SCOPES

Range	7 1/2 (7 1/4) inches Between Mounts	6 inches Between Mounts	.05 Each Click
50 feet.....	.082	.075	.15
75 ".....	.125	.115	.3
100 ".....	.175	.165	.6
150 ".....	.225	.215	1.2
200 ".....	.275	.265	1.5
300 ".....	.425	.415	1.8
400 ".....	.575	.565	2.1
500 ".....	.725	.715	2.4
600 ".....	.875	.865	2.7
700 ".....	1.025	1.015	3.
800 ".....	1.175	1.165	
900 ".....	1.325	1.315	
1000 ".....	1.475	1.465	

BASES

The new 3-point micro-click rear mounts furnished with Lyman Targetspot 8X and 10X require bases provided with a circular beveled mill cut. Many scope bases now being used have this circular beveled mill cut. Hardened bases play an important part in the satisfactory results to be obtained from a scope and many purchasers of new scopes insist on Lyman bases that are hardened. Use only bases of standard dimensions.

RUBBER EYE CUPS

Rubber eye cups are furnished as standard equipment on both Targetspot scopes.

THE LYMAN GUN SIGHT CORP.
Middlefield, Conn., U. S. A.

METALLIC and TELESCOPIC SIGHTS
IDEAL RELOADING TOOLS
CUTTS COMPS

FORM TARGETSPOT-2M-6-47 PRINTED IN U.S.A.

