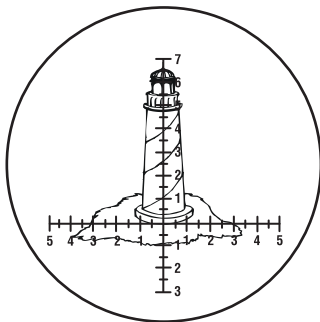
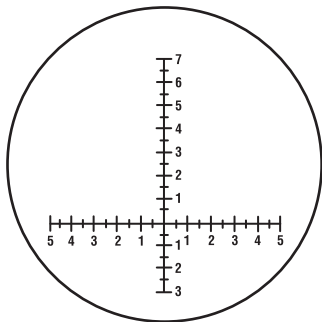


The Apache 7x28 has the cross hairs reticle for range finding. Both the horizontal and vertical reticle lines are etched with graduations of 10 blocks. One block is 10 mils and it is divided into 5 mils with the small line at its center. One mil means 1m height or wide at 1000m distance. So, the Apache reticle covers a total range of 100m at 1000m distance. With this formula, you can figure out the distance to the object provided you know the height of the object. If you know the distance to the object, then you can figure out the height of the object. The measuring formulas are as below.



To measure distance when target object height is known:

$$\frac{\text{Object Height (m)}}{\text{Scale Reading}} \times 1000\text{m} = \text{Distance in meters}$$

To measure object height when distance is known:

$$\frac{\text{Distance (m)} \times \text{Scale Reading}}{1000} = \text{Distance in meters}$$