

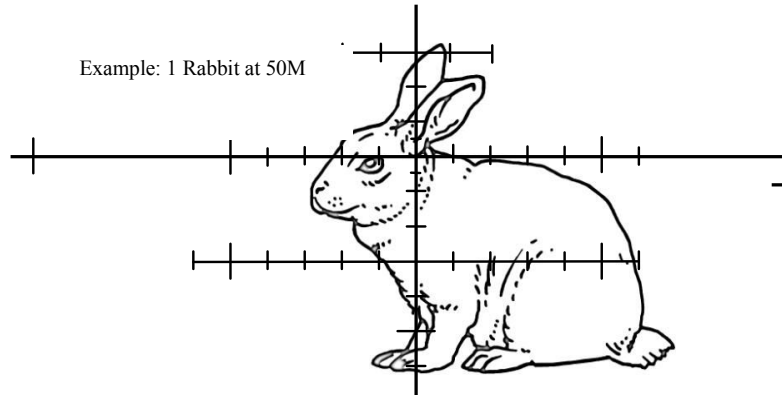
No factors, coefficients, millirads or complicated calculations need to be learnt or performed.

The FT reticle has been designed for use where the bullet or projectile has a large trajectory variation. Typically this is found in air rifles, rimfire rifles shooting over 100 meters and centrefire shooting over 400 meters

Using a reticle to measure a target requires you to set the scope to 10X magnification. At this magnification the FT reticle will measure at 100 Meters a height of 25mm to the first horizontal line and then 50mm to the second line, increasing by a further 50mm to each subsequent line.

Quick accurate range finding

Example: 1 Rabbit at 50M



Range finding is now easy. All you need to know is the approximate dimensions of the target. For example: A rabbit has a height about 150mm to the shoulder when crouching. If you use the reticle to measure the

height and note by the reticle it measures 300mm high as shown, then you can calculate the range as $150/300 = 0.5$ multiplied by 100m, which equals 50m

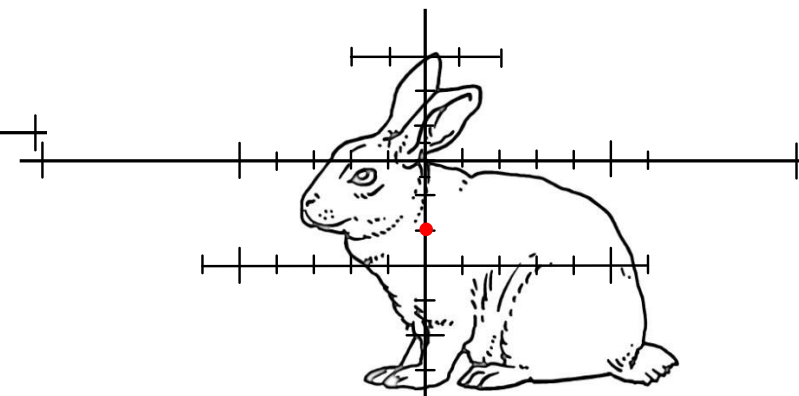
Another example would be if the Rabbit as measured by the reticle measures only 100mm then the distance would be calculated as the known height (150mm) divided by the measured height (100) multiplied by the 100m. EG: $150/100 = 1.5 \times 100 = 150m$

Quick accurate hold over markers

All you need to know is the trajectory or amount of bullet drop of your chosen rifle and ammunition at a know distance. Again the scope is set to 10x magnification.

Using Example above we know the rabbit is 50m away. If we are hunting with an airgun firing a 1000 fps Diablo .177 pellet which has been sighted in at 20m we would be able to measure our pellets trajectory. This information is available from pellet makers or you can check your rifles trajectory at a range. (Recommended). In this case we expect the pellet to fall 200mm at 50m

So in order to shoot the rabbit you have to hold over the desired bullet impact point by 200mm. Remembering that reticle measurements are set at 100m, you have to allow for this when holding over on a target at 50m. At 50m the first line below the main horizontal line is 50mm, the second line is actually 100mm and the third is 200mm.



The picture above shows the correct holdover at 50m.

Guide to using the Nikko Stirling FT reticle

The new Nikko Stirling FT reticle uses everyday measurements to allow you to quickly and accurately, range find and determine the correct hold over for any rifle or ammunition.

Part Two: Wind Drift

The wind affects the accuracy of your ammunition and needs to be compensated for just like the bullets trajectory. This is most pronounced in the case of a crosswind. Head winds and tailwinds also effect the bullet path by affecting the bullet drop, however there effect is less important than a cross wind which we will discuss here.

Both bullet and ammunition manufacturers publish wind drift effect for each bullet at common velocities. Like the bullets trajectory the wind drift effect depends on a bullets characteristics. Please consult your bullet makers for information regarding wind drift.

The FT reticle has a series of vertical lines are set to 50mm at 100m. This allows you to easily calculate and adjust for wind drift. As the lines are set at 50mm apart you can use the same table to make the correct wind drift adjustment for a given distance.

It is recommended with that you take some time at the range to confirm your trajectories and make some likely calculations prior to hunting to simplify this.

This Handy Table shows the actual measurement of the horizontal lines in inches at each distance from 10 to 100m for airguns and 50m to 1000m for rifles.

	10	20	30	40	50	60	70	80	90	100
1st line	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
2nd line	5	10	15	20	25	30	35	40	45	50
3rd line	10	20	30	40	50	60	70	80	90	100
4th line	15	30	45	60	75	90	105	120	135	150
5th line	20	40	60	80	100	120	140	160	180	200
6th line	25	50	75	100	125	150	175	200	225	250

	50	100	200	300	400	500	600	700	800	900	1000
1st line	12.5	25	50	75	100	125	150	175	200	225	250
2nd line	25	50	100	150	200	250	300	350	400	450	500
3rd line	50	100	200	300	400	500	600	700	800	900	1000
4th line	75	150	300	450	600	750	900	1050	1200	1350	1500
5th line	100	200	400	600	800	1000	1200	1400	1600	1800	2000
6th line	125	250	500	750	1000	1250	1500	1750	2000	2250	2500



Nikko Stirling®