



KAHLES

## THE KAHLES MIL4+ RETICLE

At KAHLES, we share the passion and professionalism of ambitious shooters. We eagerly support their aspiration to continually enhance performance. We do this with intuitive simple and smart products, whose development is based on profound user knowledge. This is, why we offer reticles like MIL4+ in our products.

We have asked Erkki Seikkula, marketing and sales manager of Nammo Commercial Ammunition (Lapua, Vihtavuori, SK and Berger), to explain the MIL4+ reticle and how to use it.



Relevant links: <https://www.lapua.com/>

### How to use the KAHLES MIL4+ reticle – by Erkki Seikkula

*There are few really good quality scope manufacturers on the market. A couple of them are also very good ones when it comes to listening their customers. Kahles has succeed in that listening so good that their R&D has created a new standard with the handling of scope in fast shooting situations.*

*Even the handling and ergonomic design of K525i is different compared to all other long range scopes on the market it was so easy to learn all characteristics of it and use them in fast shooting for different distances. There is no need to think what have to be done - all comes easy and exactly.*

*There are so many different reticle choices for different kind of shooting situations. I guess there is also quite lot of different kind of opinions among the shooters what kind of reticle is the best one in performance wise and which one offer most for the shooter. I was also thinking about that reticle question for a while. ...but pretty quickly noticed I´m simple and straight guy who demands the reticle that is easy to understand, easy to use and which fits in many different kind of shooting situations from long range to hunting in dark and night. I selected Mil4+ -reticle for my K525i.*

*It was not any bad choice for my purpose because it is serving my shooting with several calibers together with Lapua Ballistics smartphone application. I´m often changing the scope over different rifle and different caliber that can cause challenges to utilize reticle best and all possible ways.*

*The Mil4+ -reticle is quite sensitive for those challenges. The shooter just have to know the muzzle velocity of bullet and utilize Lapua Ballistics he can manage all his shooting very accurate way.*

*For all beginners and other shooters who doesn´t have that much knowledge about the reticles and the utilisation of them this could be very reasonable way to combine top quality optics and ammunition and have a good results out right away on the beginning of hobby. Just a few basics and industrial co-operation between scope and ammo manufacturer helps you to get the smile on your face when the bullet is hitting just there you aim to.*

# MAIN TECHNIQUE



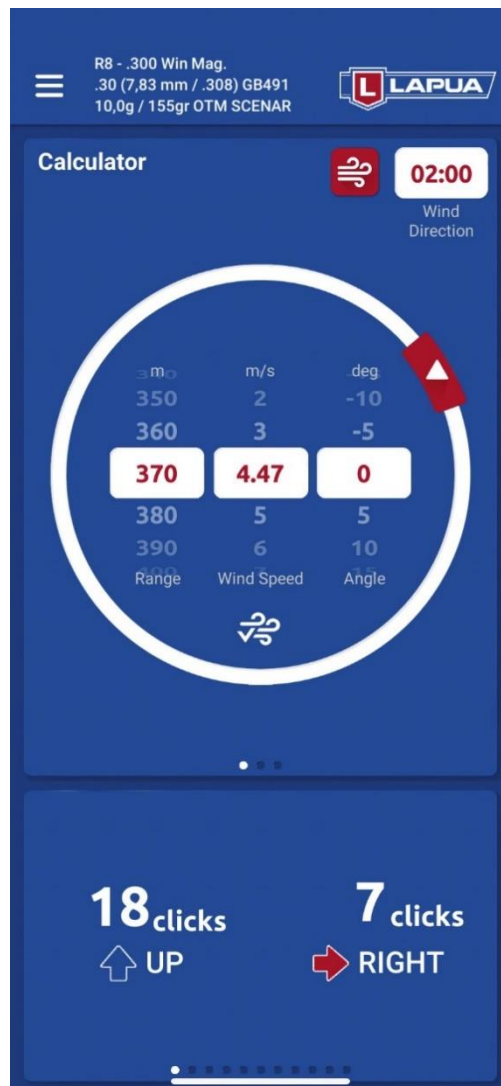
The following examples are to illustrate a strategy how to use the MIL4+ reticle. The graphs we use are based on the Lapua Ballistic App, using the data from Erkki's weapon system.

<u>Data used for calculations:</u>	Caliber:	.300 Win Mag.
	Bullet:	Lapua OTM Scenar
	Bullet weight:	155 grs
	Bullet velocity V0:	890 m/s
	Zero distance:	100 meters

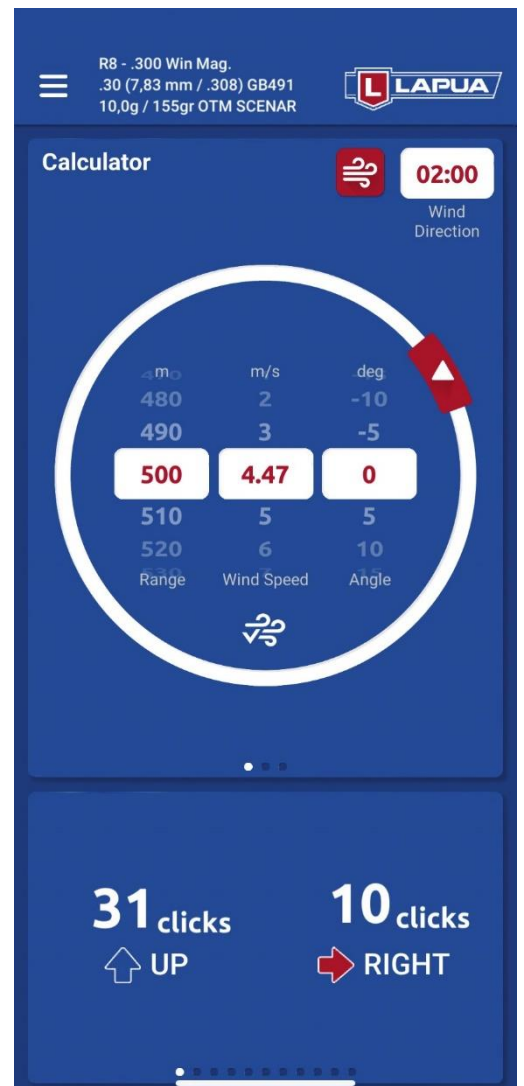
Erkki Seikkula is calculating and compensating both distance and weather conditions by the clicks of the elevation and the windage whereas he doesn't work with the reticle.

- Target 1: 370 meters
- Target 2: 500 meters

In this examples Erkki would dial 370 meters, using 18 clicks as shown in graph 1.1. At 500 meters he would use 31 clicks, as shown in graph 1.2.



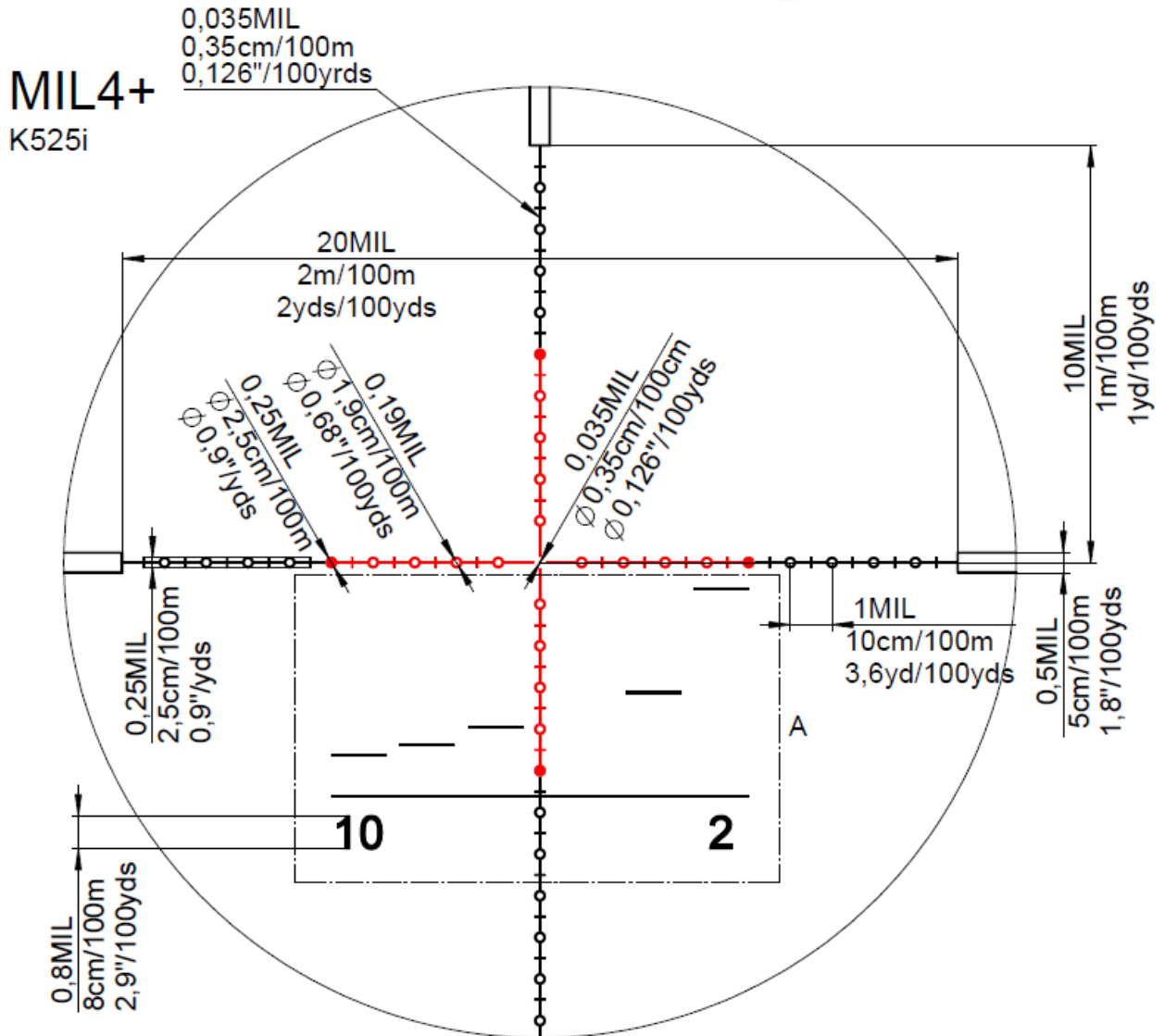
Graph 1.1.  
Target distance 370 m / 18 clicks up  
7 clicks right for wind correction



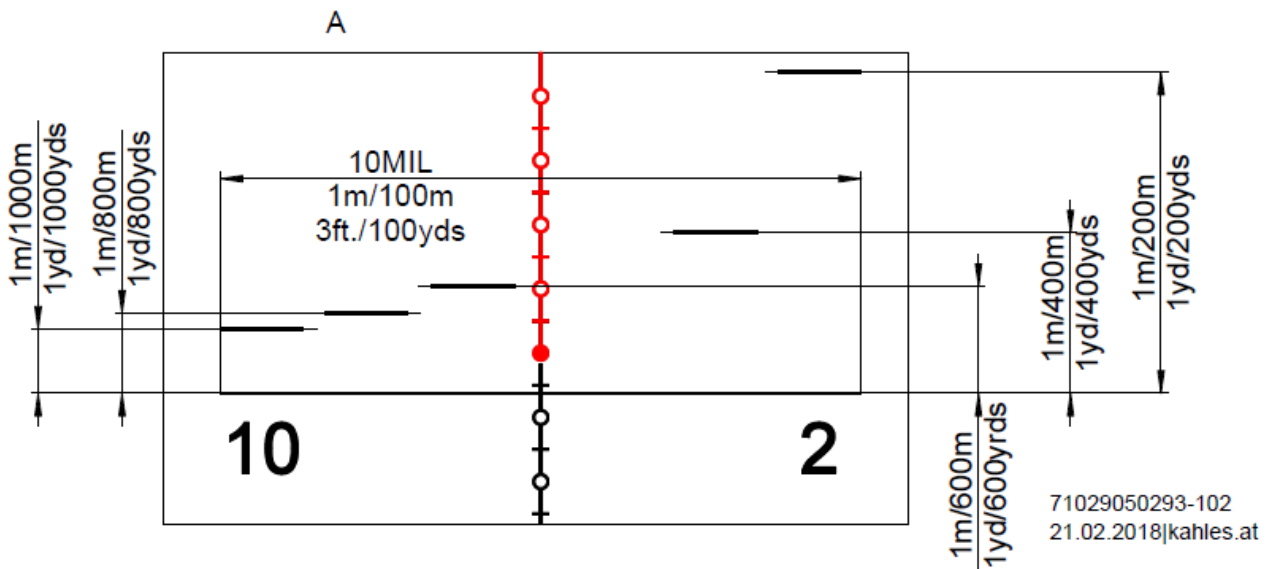
Graph 1.2.  
Target distance 500 m / 31 clicks up  
10 clicks right for wind correction



## RETICLE DIMENSIONS



As you can see at the graphic the KAHLES MIL4+ reticle offers "rings" instead of "dots". The rings do have the advantage that shooters can look through them and are able to aim more precise, as they do not cover the target. This kind of rings are more appropriate in cold countries, where mirage is not a big topic like in Finland where Erkki Seikkula is living.



The quick ranging bars, as you can see at the graph above, are a useful reticle element for a fast distance estimation. If an object 1 meter high fits in between the bottom line and the small line (directly aligned with number two), this object is approximately 200 meters away. Next line to the left 400 meters and so on. So you are able to get a fast distance estimation up to 1.000 meters.