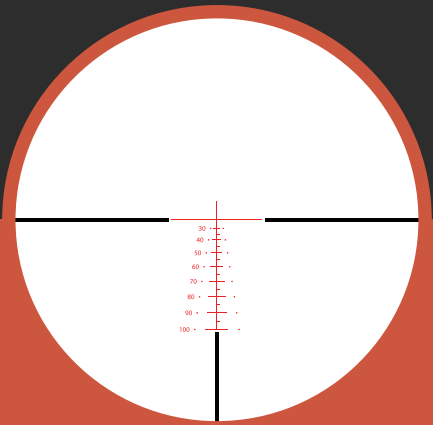
ATHLON
RIDICULOUSLY GOOD OPTICS

CB100 SFP IR MOA

Talos Crossbow Scope

SECOND FOCAL PLANE



RETICLE MANUAL

THE ATHLON® CB100 SFP IR MOA RETICLE

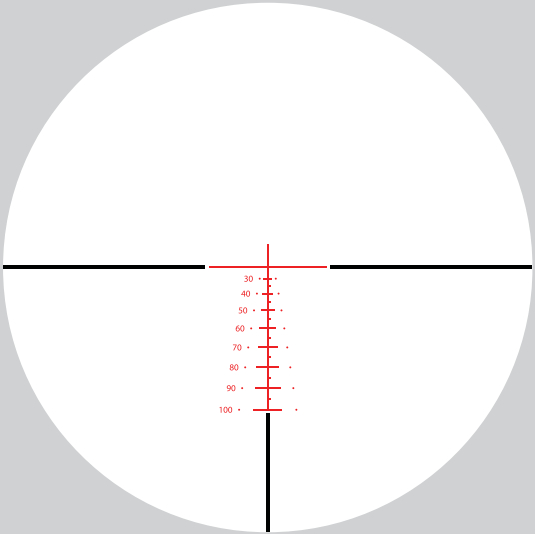
CB100 SFP IR MOA is suitable for crossbows with arrow speeds from 300FPS to 500 FPS. The illuminated center provides excellent visibility in low-light conditions. Zeroed at 20 yards, this reticle provides hold-over points out to 100 yards.

Application: Precision Mid and Long Range Shooting for Hunting

TRUING THE RETICLE TO YOUR CROSSBOW AND ARROW

After zeroing your crossbow at 20 yards. Fire 3 arrows at 40 yards using the 40 yard holdover mark in the reticle. If your arrow group impacts above the bullseye, slightly adjust the velocity ring to a higher speed. If the arrow group impacts below the bullseye, adjust the velocity ring to a slightly slower speed.

Do not adjust the velocity ring after you have finished this step.

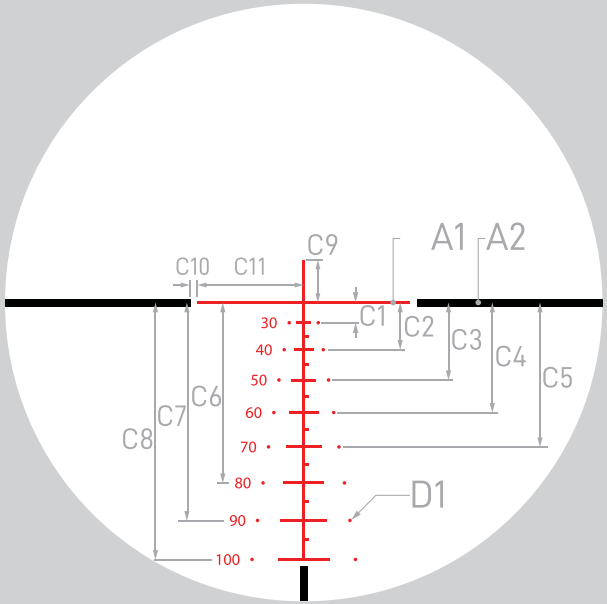


RETICLE SUBTENSIONS

The CB100 SFP IR MOA reticle is based on the minute of angle, a unit of angular measurement, usually shortened to moa. A “moa” is defined as “one minute of an angle”. As a full circle has 360 degrees, and each degree is composed of 60 minutes (60’). thus there are 360 (degrees) x 60 (minutes) = 21,600 minutes in a circle. Since there are 360 degree in a circle, we can get 360 degree/21600 minutes=0.016667 degrees/minute. If the target is 100 yards (3600 inches) away, we can use a formula, 3600*TAN(RADIANS(.016667)), to get 1.047 inches which means 1 moa equals to 1.047 inches at 100 yards. Many people just round down the 1.047 inches to 1 inch @100 yards. If you are using metric system, formula 100000mm*TAN(RADIANS(.01667)) gets you that 1 moa equals to 29.1 mm @100 meters.

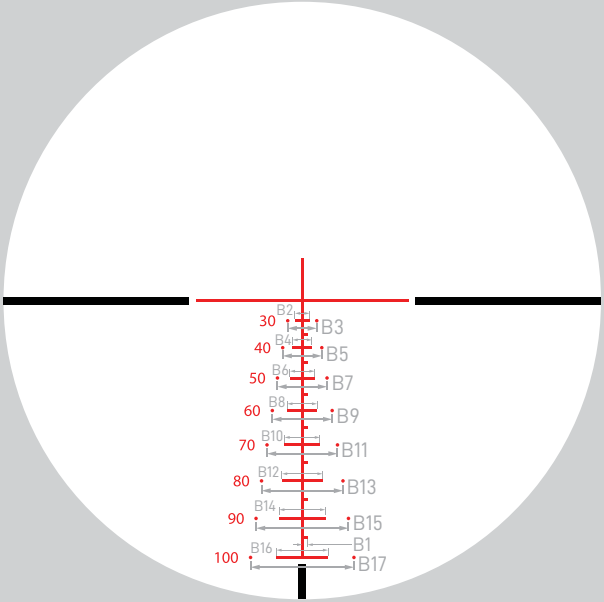
The CB100 SFP IR MOA reticle is located at the second plane which stays in between erector tube and ocular lens. The size or the appearance of a second focal plane reticle does not change when you try to zoom in or zoom out, however the relative ratio between reticle and your target changes all the time because your target appears bigger or smaller when the magnification changes.

The holdovers of the CB100 reticle are valid from 300-500 FPS once you set the FPS setting to match your crossbow.



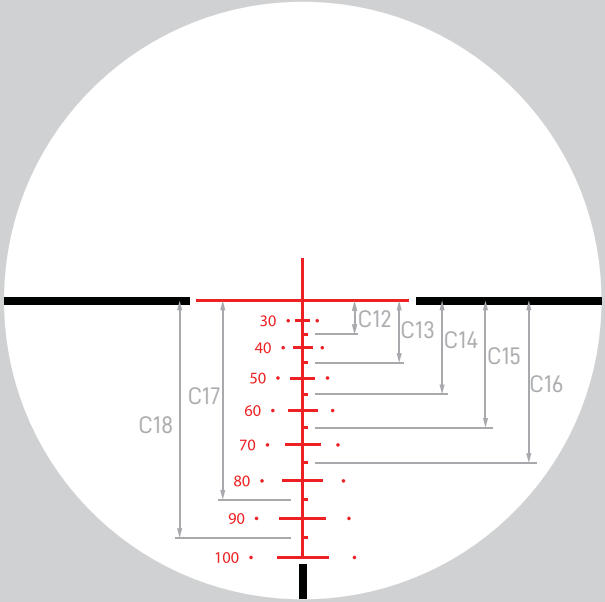
SUBTENSIONS IN MOA

A1	A2	C1	C2	C3	C4	C5
0.6	2	5.73	13.34	21.9	31.09	40.79
C6	C7	C8	C9	C10	C11	D1
50.95	61.55	72.57	12	2	30	1



SUBTENSIONS IN MOA

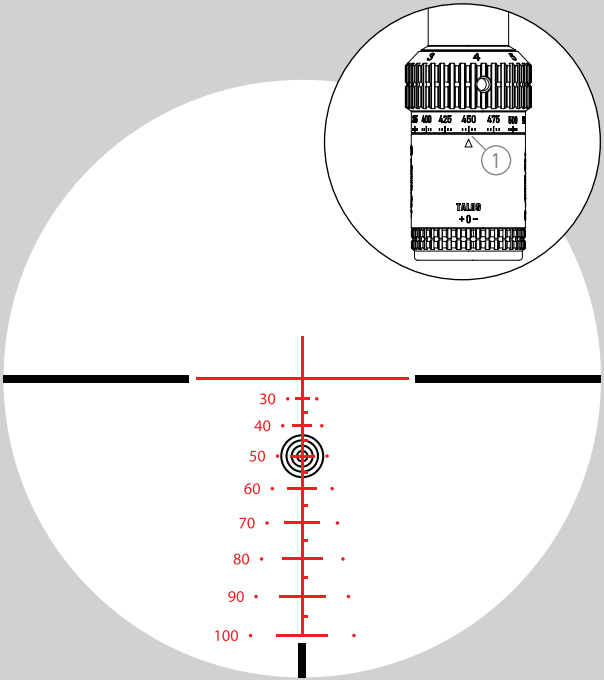
B1	B2	B3	B4	B5	B6	B7	B8	B9
1.5	4.1	8.2	5.5	11	7	14	8.4	16.8
B10	B11	B12	B13	B14	B15	B16	B17	
10	20	11.5	23	13	26	14.6	29.2	



SUBTENSIONS IN MOA

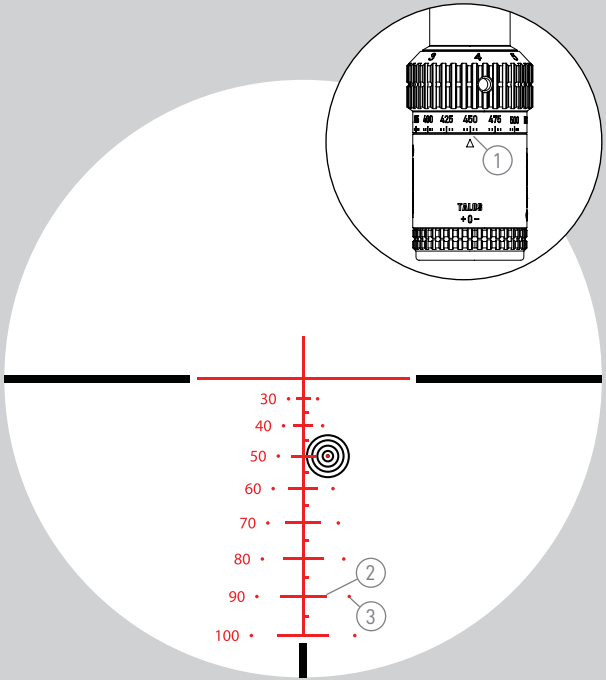
C12	C13	C14	C15
9.57	17.62	26.5	35.94
C16	C17	C18	
45.87	56.25	67.06	

HOLDOVER FOR COMPENSATING ARROW DROP (450 FPS CROSSBOW)



*If you are using a 450 FPS crossbow and your target is at 50 yds, simply align the 450 FPS to the center mark of the velocity ring **(1)** and place the center of the target at 50 yds holdover on the reticle.*

HOLDOVER FOR WIND CORRECTION & MOVING TARGET (450 FPS CROSSBOW)



*If you are using a 450 FPS crossbow and your target is at 50 yds, simply align the 450 FPS to the center mark of the velocity ring **(1)** and place the center of the target at 50 yds holdover on the reticle, and use the wind holdover dot for 10 mph wind from left to right.*

***(2)** - 5 mph wind holdovers; **(3)** - 10 mph wind holdovers*

THE ATHLON
GOLD MEDAL LIFETIME WARRANTY*

Demand the most from your equipment. When things go unexpectedly or accidents happen, rest assured, Athlon Optics carry a lifetime transferable warranty. Athlon guarantees to repair or replace your product if damaged through normal use. No charge; No receipt; No Registration required.

This warranty does not cover damages caused by deliberate damage, misuse, theft or maintenance provided by someone other than the Athlon Authorized Service Department.

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