



BDC 600 IR

Talos HMR Riflescope

SECOND FOCAL PLANE



RETICLE MANUAL

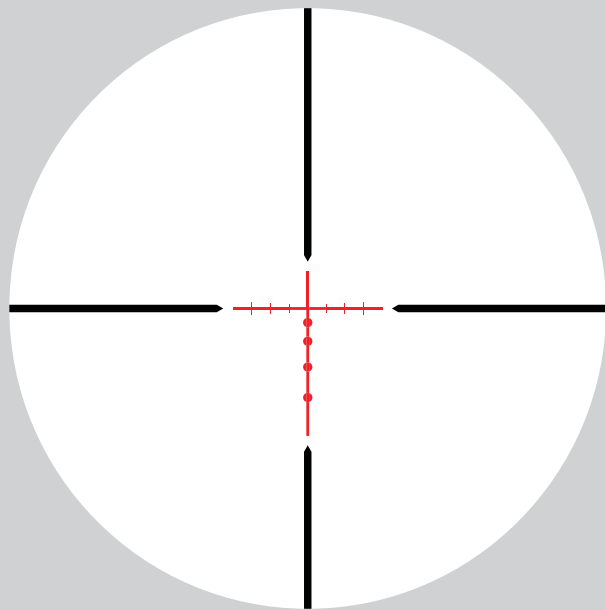
THE ATHLON® BDC 600 IR RETICLE

Athlon's BDC 600 IR reticle was designed to deliver a high level of precision at extended targets that can be used with today's most popular rifle cartridges.

For 3-12x50 reticle subtension is valid at 12x.

For 4-16x56 reticle subtension is valid at 16x.

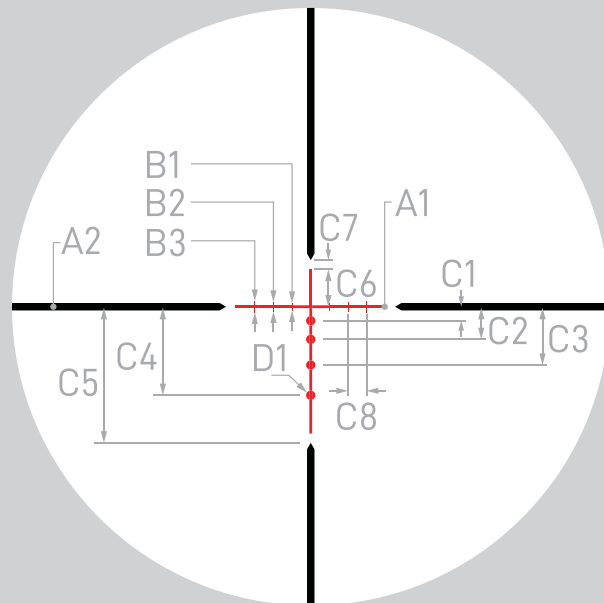
Application: Hunting



RETICLE SUBTENSIONS

The BDC 600 IR 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 $360 \text{ degree} / 21600 \text{ minutes} = 0.016667 \text{ degrees/minute}$. If the target is 100 yards (3600 inches) away, we can use a formula, $3600 * \text{TAN}(\text{RADIANS}(0.016667))$, 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 $100000\text{mm} * \text{TAN}(\text{RADIANS}(0.01667))$ gets you that 1 moa equals to 29.1 mm @100 meters.

The BDC 600 IR 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 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.



SUBTENSIONS IN MOA

A1	A2	B1	B2	B3	C1	C2
0.3	0.8	0.8	1	1.2	1.5	3.5
C3	C4	C5	C6	C7	C8	D1
6.25	9.5	13.6	4	1	2	1

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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