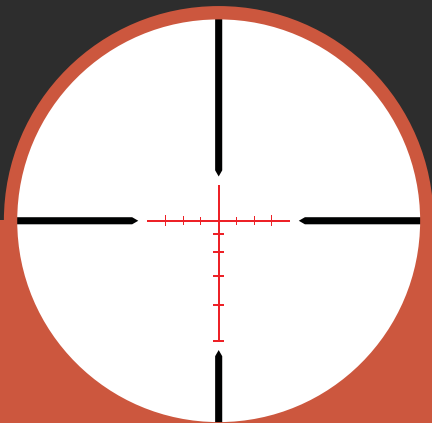


**ATHLON**  
RIDICULOUSLY GOOD OPTICS

# BDC 600A IR

Midas HMR Riflescope

**SECOND FOCAL PLANE**



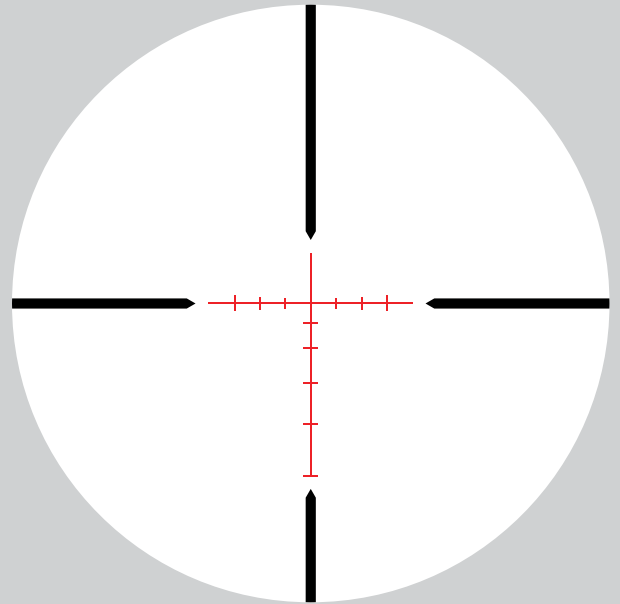
**RETICLE MANUAL**

## THE ATHLON® BDC 600A IR RETICLE

Athlon's BDC 600A IR reticle can be used effectively with a variety of firearms giving you accurate ranges and reference marks which can be used to compensate for bullet drift in windy conditions or range distances. The user can sight in at 100 yards on any magnification setting, but for the ballistic reticle feature to function properly, the scope's magnification must be set to the correct power.

For 2.5-15x50 reticle subtension is valid at 15x.

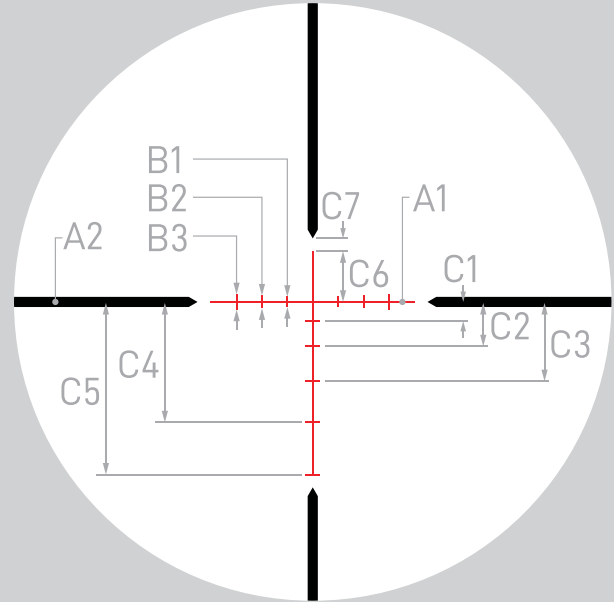
**Application:** Hunting and Tactical



## RETICLE SUBTENSIONS

The BDC 600A 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 600A 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
0.15	0.6	0.8	1	1.2	1.5
C2	C3	C4	C5	C6	C7
3.5	6.25	9.5	13.6	4	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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