

# USING DEVICE AS A FRONT ATTACHMENT (CLIP-ON) TO THE DAYLIGHT RIFLESCOPE:



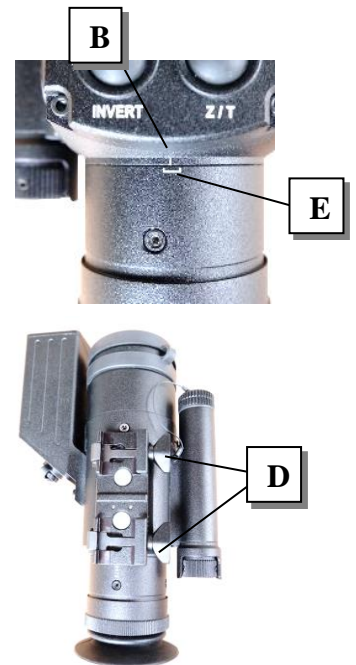
Your thermal modular device can be used as a front attachment (clip-on) to your existing daylight riflescope, battle sight or most other aiming devices with reticle (note: the red dot optic must have a fully enclosed optical barrel (it must have the front lens and eyepiece lens) in order to effectively be used with the thermal clip-on)

**IMPORTANT: YOU MUST HAVE A SIGHTED (ZEROED) DAYLIGHT SCOPE AT 100M/YDS PRIOR TO PAIRING IT WITH THE THERMAL CLIP-ON DEVICE!**

The daylight scope needs to be at a matched height of approximately 38mm or 1.5" (optical bore axis) with the thermal clip-on device (low mounting rings for 40-44mm scopes and medium height mounting rings for 50-56mm scopes). Good vertical alignment is important to achieve perfect pairing.

To use the device as a clip-on you must perform the following steps to pair this device to a daylight scope:

1. Attach Clip-On Eyepiece (A) via direct threads. NOTE: you must thread it all the way in and position the white line (B) etched on the device body anywhere inside the white borders etched on the Clip-On Eyepiece (E). When done correctly the line will be inside of the borders. This will ensure the best optical alignment between the thermal device and the daylight scope.
2. Attach the Short Weapon Mount (C) directly to the body of the thermal device via the two screws, which are included with this mount. DO NOT USE any other screws! Position the mount so the two locking mechanisms (D) are as pictured on the right. For short time, temporary use, do not use Loctite® or similar compounds. For long term/permanent use as a clip-on apply small amount of Loctite® BLUE compound onto the mounting screws threads. NOTE: DO NOT USE LOCKTITE® RED OR SIMILAR COMPOUNDS!
3. Once assembled, position and mount the thermal device onto the Picatinny rail in front of the daylight scope so that rubber cup of the eyepiece is either right at or in direct contact with the front bezel of the daylight scope. This is necessary to minimize the image adjustment and to prevent any light dispersion, which can affect the image clarity and brightness. Ideal distance between the first front lens of the daylight scope and the last lens of the thermal device is 15-20mm (see image above as reference)
4. Once attached tighten the locking mechanisms (D). For more permanent solution apply small drop of Loctite® BLUE onto the threads. Do not apply Loctite® RED or similar compounds!



5. Since the daylight scope is already zeroed, no further reticle adjustment is required. Instead you must now calibrate the thermal image to the daylight scope's reticle:
  - 5a)** Position a "thermal" target at 100m/yds. Thermal target could consist of a regular paper target with an activated hand or foot warmer pad attached to it. The warmer pad will be visible as a heat target when you are looking through the thermal device.
  - 5b)** Make sure your thermal device is in the Clip-On Mode (see page-13 of the main manual, item # 36 "Type of Device" for information on how to switch to the correct mode). Activate the thermal device and look through the daylight scope – locate the thermal target.
  - 5c)** Now observe where the thermal target is in correlation to the daylight scope reticle. If the thermal target is perfectly aligned with the middle of the daylight scope reticle, no further adjustment is necessary – you can now take the control shot. If the thermal target is not perfectly aligned access main menu, then scroll down to **IMAGE POSITION CORRECTION** and activate it. Once activated, adjust the image position vertically and horizontally using the thermal device's Super Controller until the thermal target is aligned precisely with the daylight scope's reticle. Once done, exit the menu.
  - 5d)** The last adjustment is to position the menu table (4 squares) in the middle of the daylight scope reticle, so that reticle is precisely over the center lines of the display table. This will allow you to reference the alignment should you remove the thermal clip-on and then re-install it again. If after re-installing it the center lines of the table are not in the middle of the scope's reticle a shift has occurred and thermal device will need to be re-aligned again, as described in 5c). To align the menu table, activate main menu and scroll down to **TABLE POSITION CORRECTION**. Once activated, adjust the horizontal and vertical alignment until center lines of the menu table are exactly in the center of the daylight scope's reticle. For your reference  $\frac{1}{2}$  of the menu table shift translates into approximately 2-MOA shift for Point Of Impact (POI).

