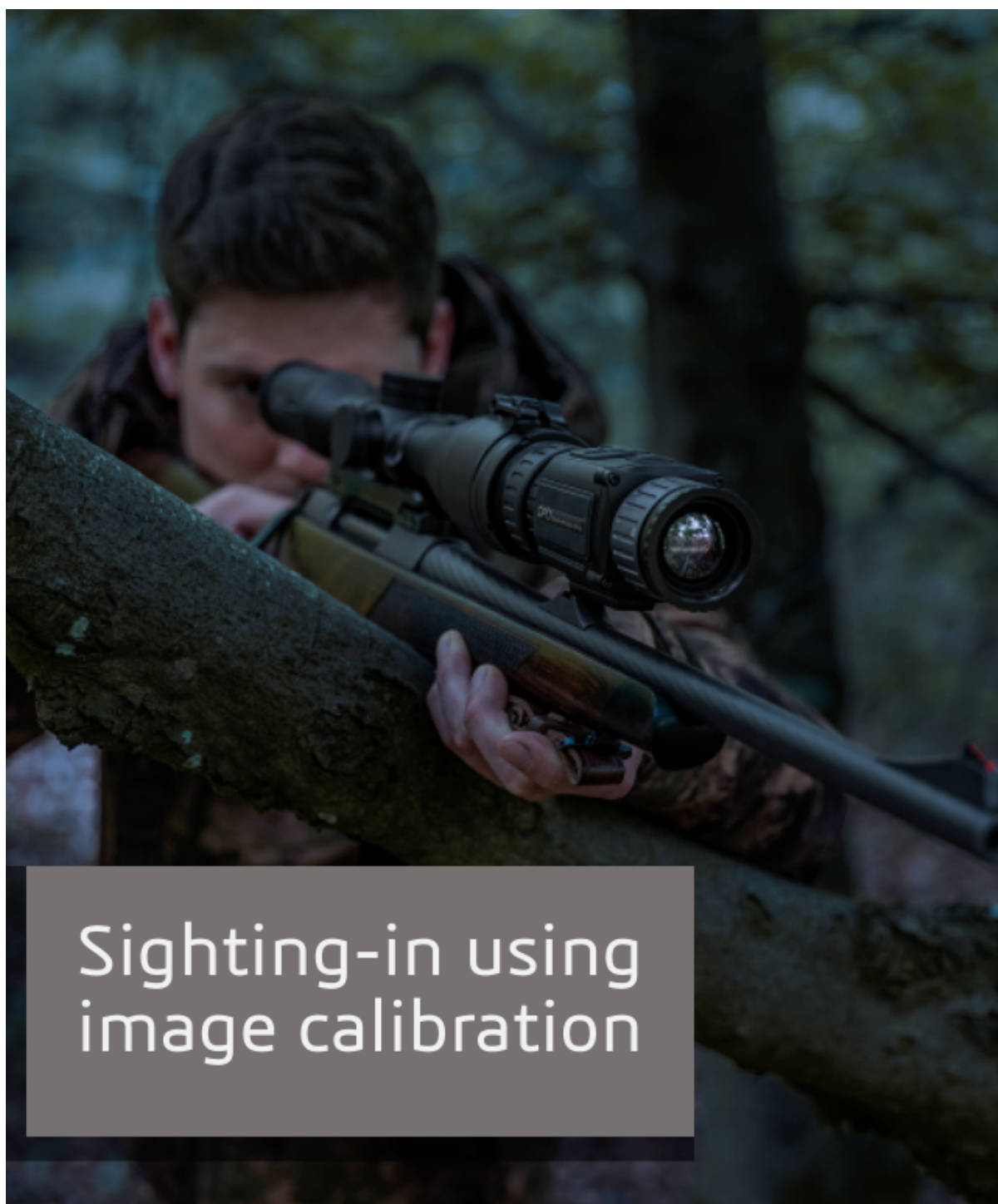




Sighting-in using
image calibration

Dear user,

We are pleased that you have decided to purchase the SPECTRA TI 35 from our company.

In order for you to be able to use the device to its full extent, we would like to give you the following tips for sighting-in by means of the image calibration of the device.

(In the manual under chapter 3.10)

Since you are always looking at a screen with objective-mounted thermal imagers, the optical axis of the clip-on does not usually match the optical axis of the scope. In such a case, the shooter would "correct" his aiming point to the image of the screen and would have a shift in the point of impact.

Therefore, when mounting the scope for the first time, we always recommend taking a test shot and correcting the point of impact if necessary. During this correction, the image on the screen is shifted pixel by pixel to the reticle of your scope in such a way that you can use the same aiming point of the scope as you would without clip-on. The previously sighted-in scope is not adjusted during this process!

We recommend the following procedure for this:

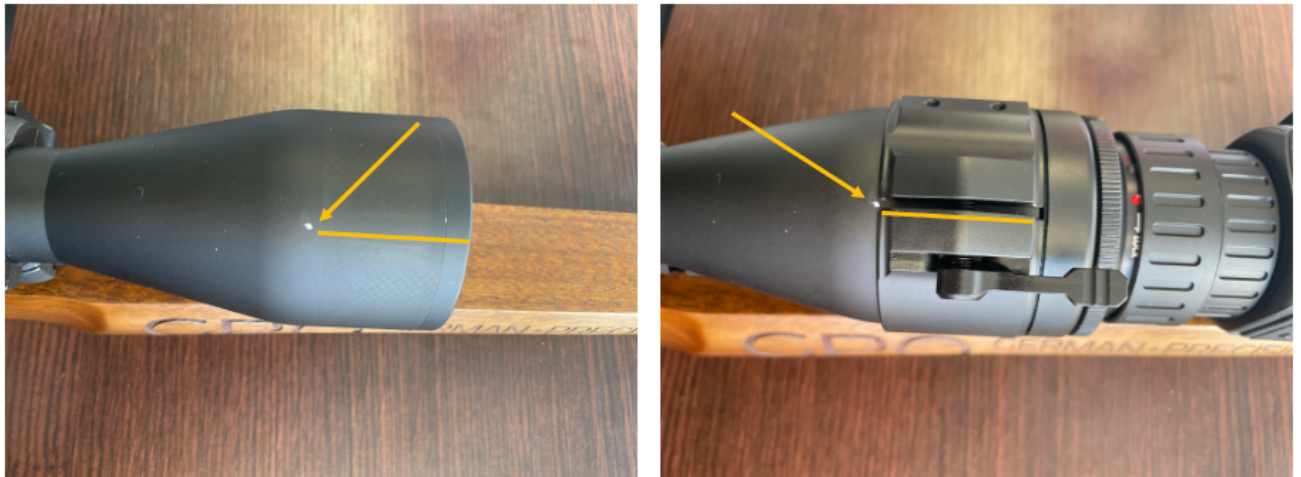
1. Obtain the most stable, firm base possible (ideally, the rifle is properly "clamped").
2. Mount a heat pad on the target.
3. If you have a scope with 3x or higher beginning magnification, you should connect your smartphone to the device via hot-spot function / WiFi, to have the live view of the TI35 screen in full format in parallel on it (see German / English manual, chapter 7, connecting the client software).
4. Now connect the thermal imager to your scope using the suitable adapter / mounting ring.
Make sure that the adapter and intermediate rings do not jam and are securely seated on the TI 35 and the scope. Important: do not over-tighten the tension ring, as excessive tension can damage the objective.

Practical tip 1: It is advisable to lightly coat the threads of the adapters with a ceramic paste prior to use, as all parts are very precisely machined - this allows them to be loosened again without much force, even after a long period of non-use.

Practical tip 2: Since the adapter and mounting ring (and their position) are critical for repeatable accuracy, we recommend marking the position of the mounting ring on the objective of the riflescope. (e.g., with a fine dot or an adhesive strip) e.g., at the point where the clamping ring has a gap (see Fig. 1).

This ensures repeat accuracy after removal and reattachment of the device.

Fig. 1.



5. Now point the rifle at the target (incl. heat pad) and focus using the titanium gray focusing ring on the front of the thermal imager until the target can be seen sharply.
6. Now you can use button 3 (see Fig.2) to scroll through the different color filters and use the main menu to select the best ambient filter for you, or to fine tune brightness & contrast. Note: There is not "one" optimal standard here, because different settings are suitable depending on the environment, temperature, and the subjective feeling of the shooter.

Practical tip: Set the magnification of the scope as low as necessary so that you can see the entire screen. Start by sighting in at 50m for a rough pre-adjustment, even if the rifle & scope are sighted in at 100m.

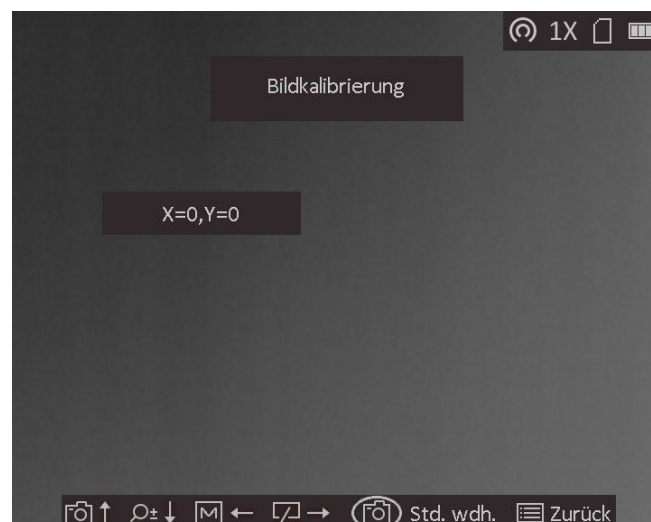
- Now press the photo button (1) and the e-zoom (2) simultaneously to enter the image calibration menu (note: this function appears only in the clip-on mode, because the device recognizes the adapter - the function cannot be accessed if you have mounted the observation eyepiece).

Fig. 2.



- Once the image calibration menu opens, you will see the following image:

Fig. 3



Practical tip: If your scope has an output magnification that is too high (we recommend max. 2x for this action) and you cannot see the menu information, use the "Live View" function on the smartphone with our app as previously described and you can see 1:1 the above image and even "remotely" operate the device on your smartphone.

Everything about the app download can be found in the user manual.

(see manual German / English, p. 71).

9. **Rough adjustment:**

- (1) either take a control shot followed by a point of impact evaluation, or alternatively
- (2) aim at the center of the target with the thermal clip-on and "clamp" the weapon so tightly that it cannot be moved. Then look through the scope and, with one hand, carefully remove the thermal clip-on from the scope and put it back on. In doing so, you will see directly if there is a significant discrepancy between the aimed target across the reticle of your scope without the clip-on and the target on the scope screen.

10. **Fine adjustment:**

The deviation determined under (1) or (2) must now be corrected as in classic sighting-in. You can use keys 1 + 2 to move the Y axis in height (and thus make a height correction) and 3 + 4 to move the X axis in side (and thus make a side correction).

- 11. Attention: The X / Y adjustment by one value ("click") corresponds to 2.5 cm on 100 m and 1.25 cm on 50 m respectively.
- 12. **Height correction:** Pressing the 2 key adjusts the Y value and moves the reticle **upwards**. Use this correction direction if you have a low shot with the clip-on device. If you have a high shot, use the 1 key to correct it.
- 13. **Side correction:** Pressing the 3 key adjusts the X value and shifts the reticle to the **left**. Use this correction direction if you have a right shot. If you have a left shot, use the 4 key to correct it.
- 14. If you have shot the TI35 at 50 m, you should take a control shot at 100 m to know the point of impact or to correct the device accordingly.

Press the main menu key to finish the image calibration. The X / Y values are automatically saved and are set the next time the clip-on device is switched on, even if you remove the batteries from the instrument. Also, if you reset the device to factory settings (via the main menu), your values will remain stored. **Practical tip:** Note down your X and Y values somewhere.

15. If you want to reset the image calibration yourself, press and hold the 2 key for about 2 seconds and select 'ok' in the 'Restore default' field. Now your values from the shooting-in are deleted and the device must be sighted-in again.
16. At the end of the shooting-in process, test the tight fit of the adapter. The thermal device must still be firmly seated on the scope and the adapter lever should be able to be moved with the same force as at the beginning, it must not be loose.