

Pixii A2572+ Rangefinder Control & Calibration

SUMMARY

1. Rangefinder alignment control
2. Accessing the rangefinder settings
3. Vertical rangefinder adjustment
4. Horizontal rangefinder adjustment

INTRODUCTION

Pixii is equipped with a precision optical rangefinder. The following sections will help verify the rangefinder alignment and, if necessary, adjust its calibration.

RANGEFINDER ALIGNMENT CONTROL

Pixii is equipped with a precision optical rangefinder. The following steps will help verify the rangefinder calibration.

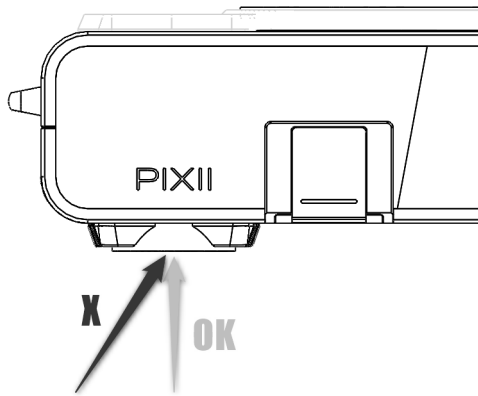
Use the provided calibration chart to help you in the process. Attach the chart on a wall or put it on a flat vertical surface for better results.

The controls must be performed with a M-mount lens installed on the camera. Refer to the online user manual for details on how to proceed.

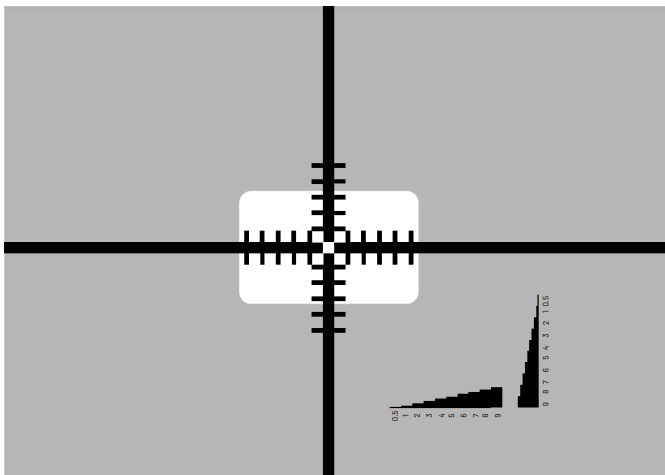
IMPORTANT: the lens must be calibrated. While most vendors ensure a proper calibration at the factory, certain lower cost productions are known to not be properly calibrated at infinity (7Artisans, TtArtisan for example). Please only use a calibrated lens to perform the rangefinder verifications.

Vertical alignment control

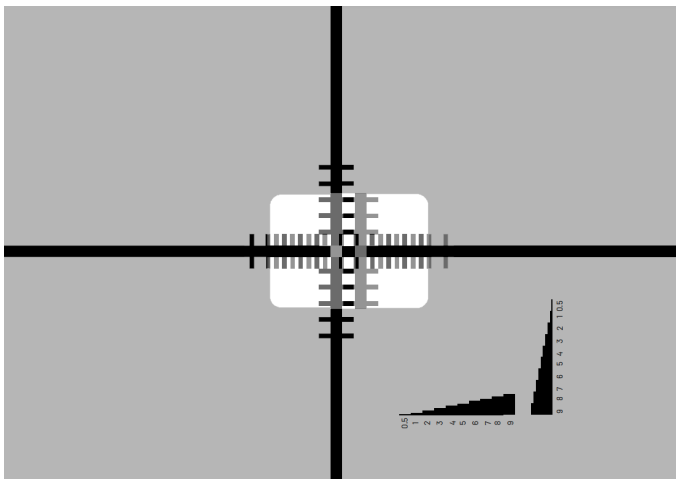
- Place your eye in the center of the viewfinder. Make sure to look straight into the viewfinder and avoid looking with an angle, either from the sides or from below or above the viewfinder eyepiece.



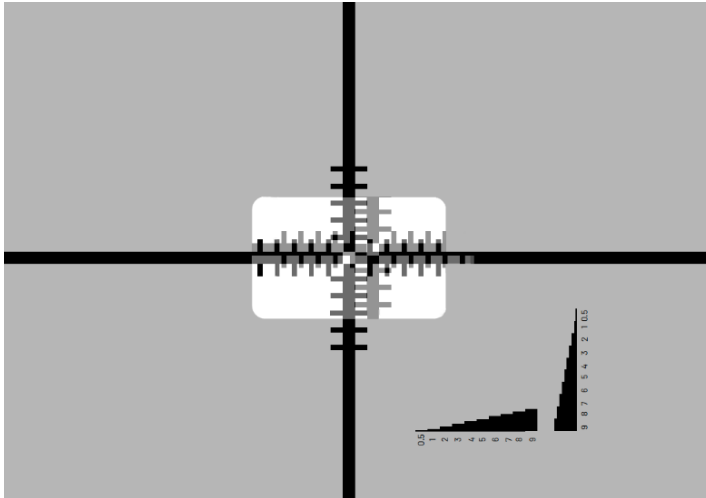
- Using the lens focus ring, aim at the cross at a distance between 1.5m to 2m (ie 5 to 6.5 feet)
- Place the cross in the middle of the rangefinder's window (the small rectangle highlighted inside the viewfinder itself).
- Turn the lens focus ring to make the 2 images (Viewfinder & Rangefinder) coincide: you should obtain the same image as in the following illustration:



- Turn a bit the lens focus ring to separate a bit the images (easiest way to see a slight difference) : this is what you should see (Rangefinder vertical well calibrated)

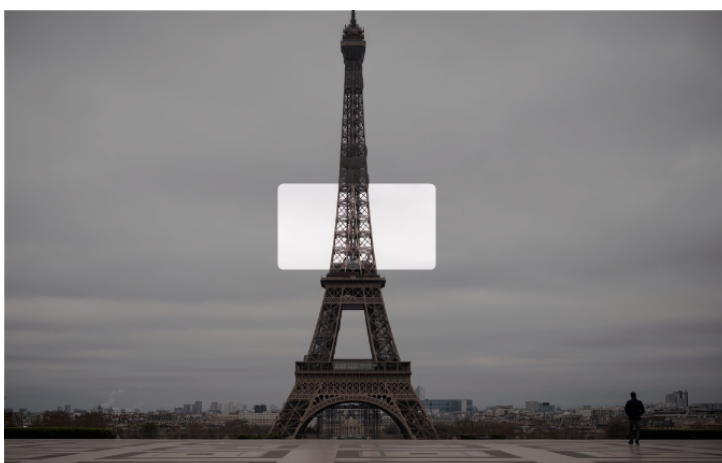


If there is a vertical misalignment, you may see that the notches on the horizontal axis are displaced above or below the axis, like this:



Horizontal alignment control

- Aim at an object placed at "infinity", like a pole, a building, etc.
Anything beyond 300m or ~1000 feet can be considered at infinity for this purpose.
- Place your eye in the same position as for the vertical check.
- Place the object in the center of the rangefinders window.
- Turn the lens focus ring to the extreme (at infinity ∞): you should see the 2 images coinciding like this:



If there is a horizontal misalignment, you may see this instead:



Note that in this picture the rangefinder doesn't go far enough: the rangefinder image is on the left side,

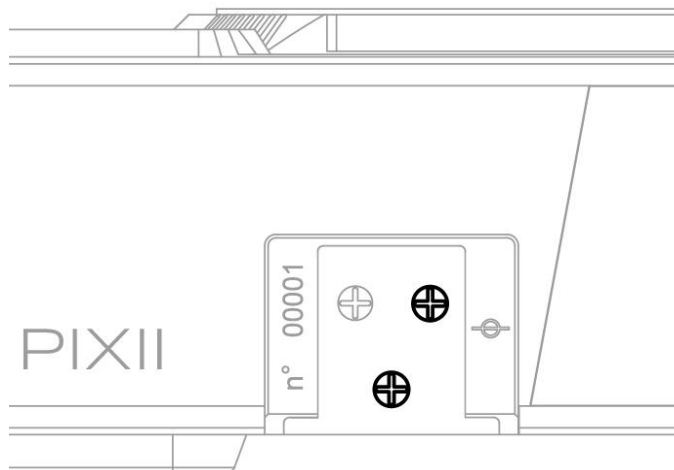
ACCESSING THE RANGEFINDER SETTINGS

Tools

- Slotted 0.2 x 1.2mm screwdriver, like Wera 2035 05117992001 ([link](#))
- Phillips screwdriver, type PH000 ([link](#))

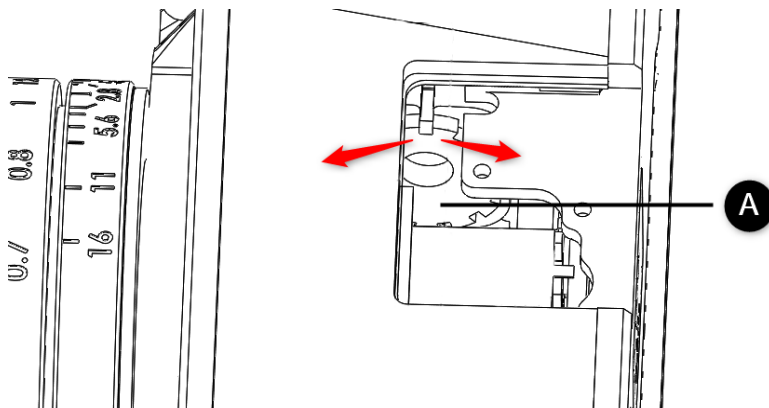
Remove the 2 screws highlighted in the picture below and remove the flash socket.

Warning: the screw at the top left is cosmetic, do not try to remove it.



VERTICAL RANGEFINDER ADJUSTMENT

With a screwdriver, turn the black toothed wheel right or left to move the image up or down.



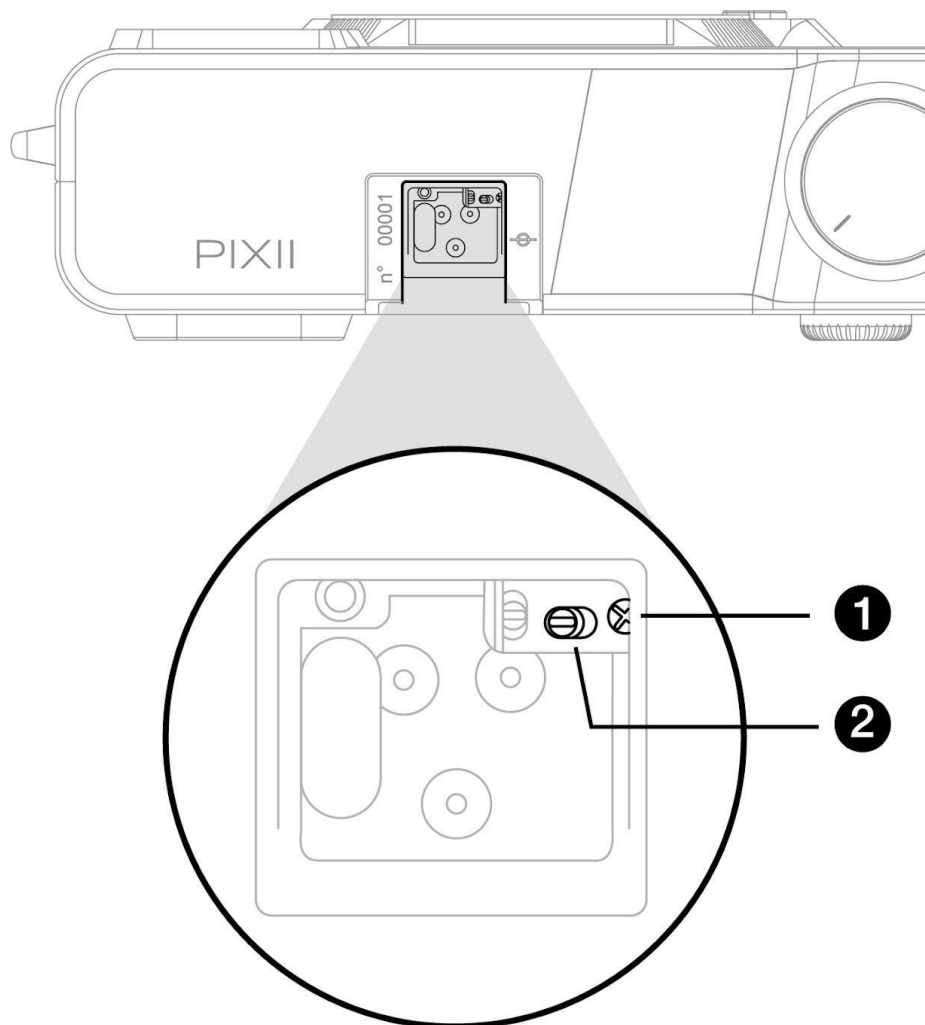
During this step, the horizontal will move, it will then be necessary to adjust the horizontal following the steps in the next section to compensate and recalibrate the horizontal alignment.

Once the vertical is aligned, move on to check and adjust the horizontal of the rangefinder.

HORIZONTAL RANGEFINDER ADJUSTMENT

1. Unblock part **no. 1** by unscrewing it with the Phillips screwdriver (¼ turn should be enough) to unlock the rangefinders settings.

IMPORTANT: DO NOT REMOVE THIS SCREW.



2. Aim at an infinite fixed object (200m could be considered at infinite).

Turn the eccentric **no. 2** with the flat screwdriver to adjust the horizontal of the rangefinder by aligning the 2 images (viewfinder & rangefinder)

3. When finished, tighten back the screw **no. 1**. Attention: during this step it is possible for the adjustment to still move a little. In this case, restart from step 2.
4. Place back the flash socket and tighten the 2 screws.

