

**Content of delivery:** 1x Wide-angle lens; 2x screws; 2x springs; 3x diffuser lenses; 1x installation guide

**INSTAR Germany GmbH** hereby ensures that you will not lose your warranty by installing this additional lens.

**ATTENTION:** Any damages caused by the user by faulty installation are excluded from the warranty.



Fig.1

**Step 1:** Remove the top cover by gently pulling it in the direction of the lens. Hold the back of the camera and remove the front cover by turning it counter clockwise. Remove all three reflectors from the infrared LEDs and keep them for the use in the future (Fig 2 & 3). They will later be replaced by special diffuser reflectors (Step 10).



Fig.2

**Step 2:** There is a black cover sheet directly above the LED board. Please remove this cover to get access to the screws beneath. For a clearer view, the following pictures won't show the camera casing.



Fig.3



Fig.4

**Step 3:** Remove all 3 screws on the sides which are holding the LED board in place. Then carefully take out the whole unit which consists of LED board, lens and the sensor unit (Fig. 4).

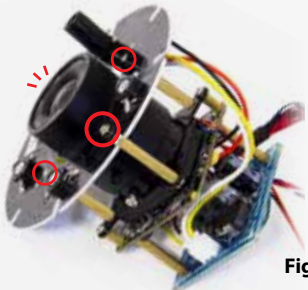


Fig.5

**Step 4:** Loosen the four screws connecting the LED board to the long gold coloured spacers. Now unplug the cable which is connected to the LED board.

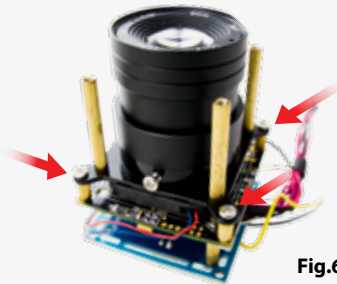


Fig.6

**Step 5:** Next, please unmount the lens holder by loosening the 4 screws on each corner. This will make the 4 long spacers more accessible.



Fig.7

**Step 6:** Remove the spacers. Then loosen the screw securing the lens. Grab the lens at the bottom and unmount the lens by turning it counter clockwise.

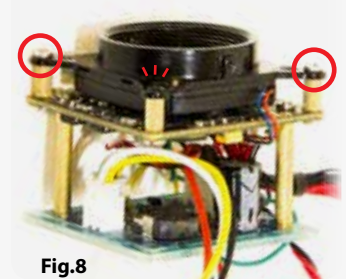


Fig.8

**Step 7:** Make sure you have removed the whole lens. Now remount the lens holder only with 2 screws on 2 opposite sides.

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**Step 8:** Please take the new wide-angle lens and mount it in the lens mount by turning it clockwise. Screw it all the way in and fasten the fixing screw on the lens mount in order to secure the lens (Fig. 7).

**Step 9:** After the installation you will need to adjust the focal point of the lens. To do so you need to untighten the fixing screw on the outer ring of the lens (Fig. 9). Now connect the camera to your network and open the camera's web interface in your web browser. While keeping an eye on the camera's live video, slowly turn the front part of the lens to the left or to the right until you get a sharp and clear image. Once done please fasten the fixing screw to keep this setting.



Fig.9

**Step 10-1:** Now to the complicated part: Take a spring from this Upgrade Pack and place it between the LED board and the lens mount. Use the included long screws to lock this construction in place by fastening the screw to the lens mount in one of the 2 spacers we have left untouched in Step 7. For now it is only required to fasten the screw by two turns. Repeat this procedure on the other side for the last free spacer. After that you can reconnect the LED board with the cable from the sensor unit (Step 4).



Fig.10

**Step 11:** Now put the whole front part back into the camera casing and secure it with the three outer screws removed before in Step 3 (Fig. 4). You will now need to move the lens closer to the glass cover. In order to do that, you need to fasten the two screws on the LED board by one turn (Fig. 12). Don't turn them too far since that would cause the lens to come too much forward which will give pressure to the front glass and you will risk damaging the front glass of your camera permanently.

**Step 12:** You now may reapply the black front sheet cover to the LED board. But please make sure you won't need any further readjustment of your lens first. This package includes special diffusing reflectors for the extended viewing angle. Simply plug them on top of the infrared LEDs like the original reflectors from Fig. 3 used to be.

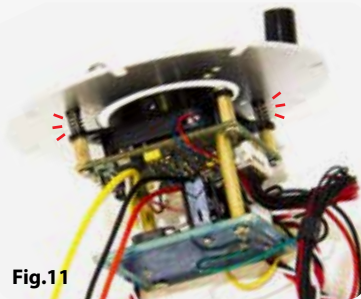


Fig.11

**Step 10-2:** Don't worry about this seemingly unstable construction. It is required to minimize the pressure on the front glass.



Fig.12

**Step 13:** At last, carefully screw the front cover back on the casing by turning it clockwise. Make sure to screw it on tightly but without breaking the front glass. In case the wide-angle lens sticks out too much, you will have to repeat step 11. Slide the top cover back into position (see Fig. 1) and enjoy your new wide-angle lens.

**Important:** In case you see reflections when it is dark and the IR LEDs are activated, you can fix that by sliding the top cover more to the back.