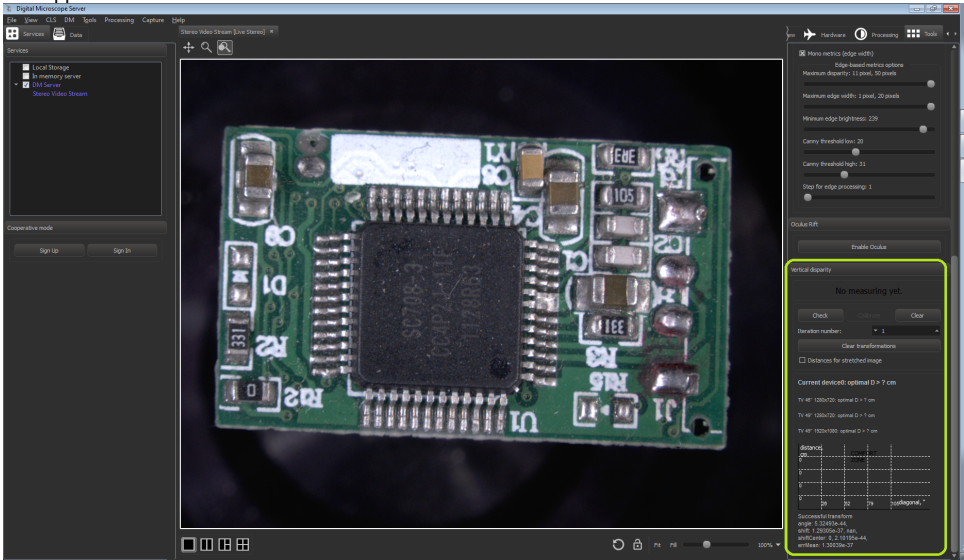


Checking the stereo calibration

1. Place some flat object with texture under the microscope. In should be all in focus, i.e. perpendicular to the camera.
2. The application should look like that:



button for checking the state of vertical disparity

the control for the number of iterations of calibration

push, if you want to see the values for the stretched image case

The parameters of the calibration

press for calibration

the result of the check

push to clear the mark over the photo

clear the table of transformations, applied to the data

the optimal distance to watch the image from for different screens

The chart demonstrating the dependency of the distance from the size of the screen

Vertical disparity

Ok

Check Calibrate Clear

Iteration number: 1

Clear transformations

Distances for stretched image

Current device: optimal D > 64 cm

TV 40" 1280x720: optimal D > 144 cm

TV 49" 1280x720: optimal D > 153 cm

TV 49" 1920x1080: optimal D > 192 cm

distance, cm

COMFORT ZONE

Successful transform

angle: -0.00176662

shift: -2.59851, -1.82218

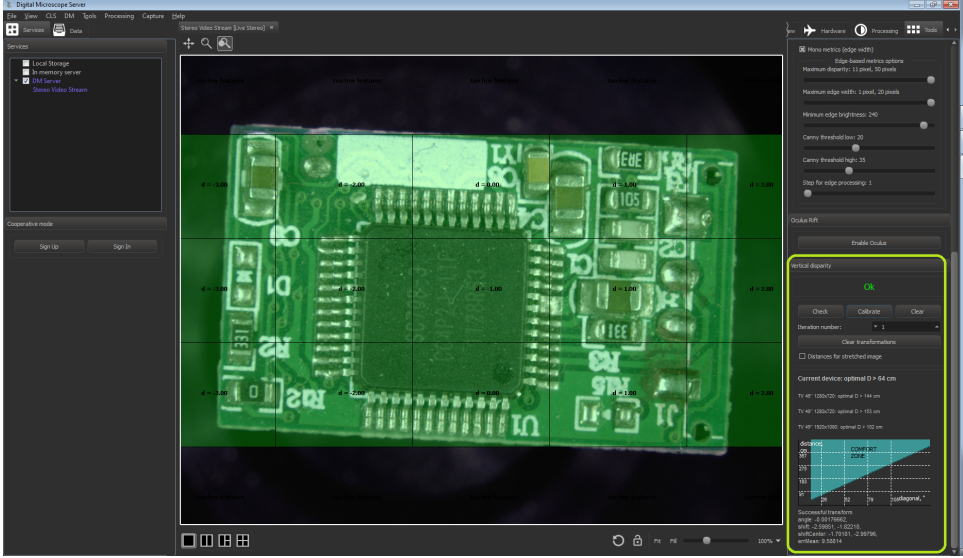
shiftCenter: -1.70181, -2.99796

errMean: 9.58814

3. To check the current state of the microscope stereo calibration, push "Check" button.
 4. The plugin will tell you if everything it's ok or recommend to perform calibration if something is wrong with the vertical disparity. If there is too few information the plug-in will also tell you about it.
- After checking the application should look like some of the screenshots below:

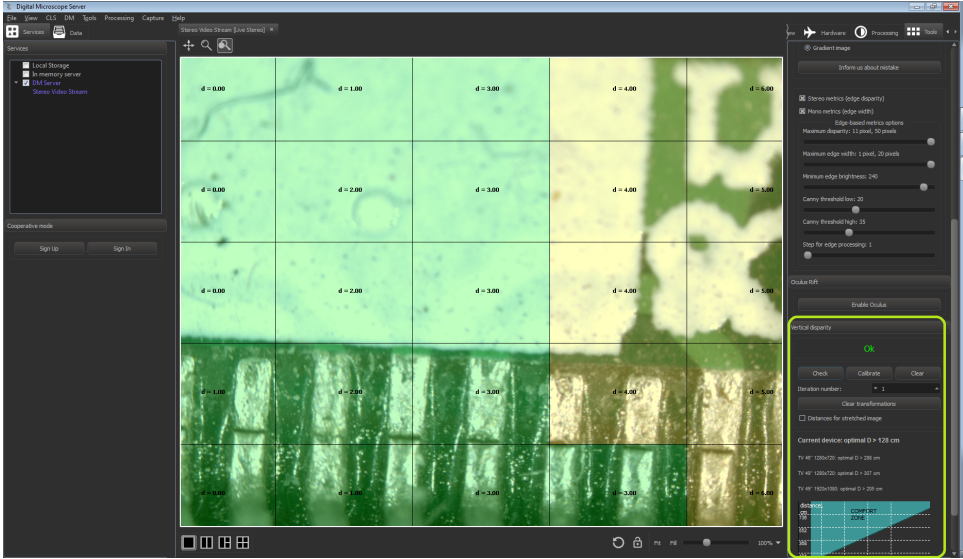
Status	Screenshot example	Required actions
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Good result



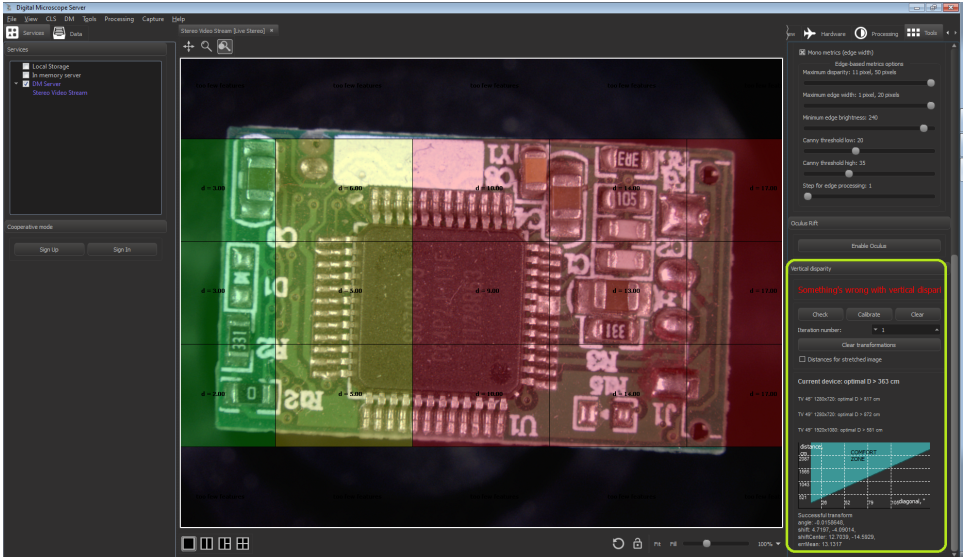
Continue working, nothing is required

Fair result



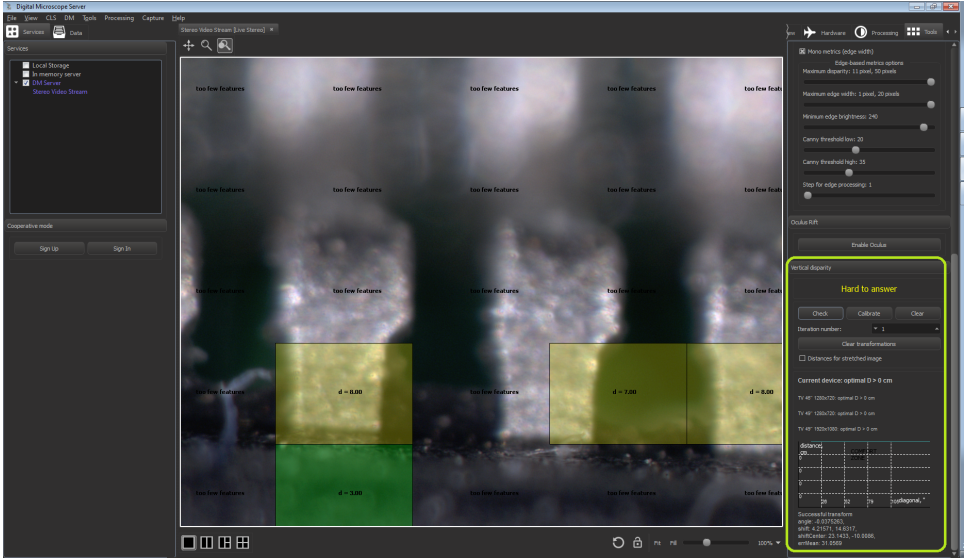
Continue working, but re-calibration is recommended

Bad result



Re-calibration is required.

The result with too few data



The object is not suitable for checking procedure, please change the object (paper, coin, etc)

5. To try calibration push the button "Calibrate". The "Calibrate" button is unavailable in case of video.
6. to remove the mark push the "Clear" button.
7. You can also set the number of the iterations of calibration. If the number is greater than 1, the calibration will be performed specified times. After each iteration the parameters of the calibration will be recalculated and the new transform will be got and applied.