

Striae Catcher LSC-5000B

Exclusive use software
“Clear Back”

Explanation material



“Clear Back” Indication screen

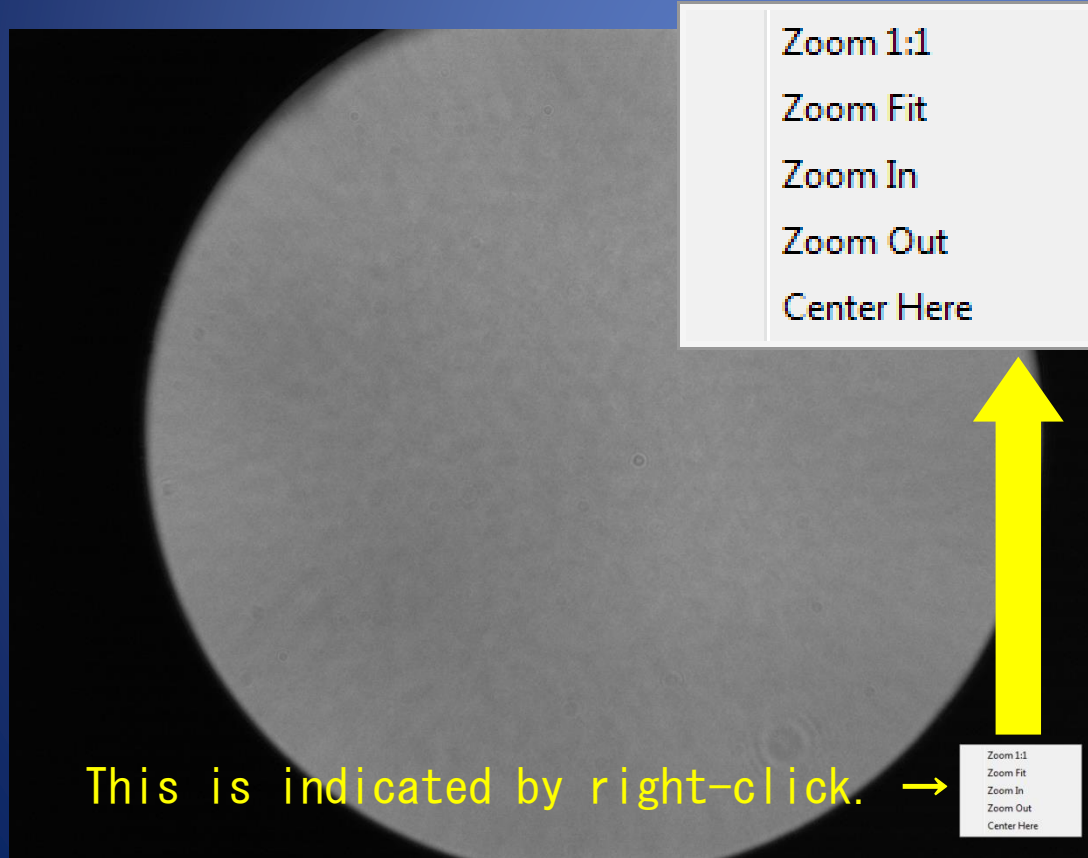
The screenshot shows a software window titled "Clear Back" with a menu bar containing "File(F)", "View(V)", and "Application(A)". The main area is a large circular image display showing a grayscale image of a textured surface. A yellow bracket on the right side of the image is labeled "Operation of the image". Below the image, a yellow label reads "Image display part". In the bottom right corner of the image area, there is a white box with the following text: "Zoom 1:1", "Zoom Fit", "Zoom In", "Zoom Out", and "Center Here".

On the right side, there is a control panel with several sections:

- Camera:** Contains "Connect" and "Disconnect" buttons.
- View:** Contains "Live", "Still", "Open...", and "Save as..." buttons.
- Image correction:** Contains "Luminance correction On", "Luminance correction Off", and "Correction recalculation" buttons. Below these is a "Sharpness" slider set to 0.
- Gain:** Contains radio buttons for "Auto" (selected) and "Manual". Below are "Auto range" and "Gain" sliders with numerical values of 255 and 100 respectively.
- Shutter:** Contains radio buttons for "Auto" (selected) and "Manual". Below are "Min", "Max", and "Target Luminance" sliders with numerical values of 1, 100000, and 128 respectively. A "Shutter" slider is also present with a value of 30000.

“Clear Back” Image display part

- Area sensor ▪ ▪ ▪ 1360 x 1040 pixel
- 1920 x 1200 pixel monitor using
 - ▪ ▪ 最大1376 x 1052 pixel



Switching function of the image display

Zoom 1:1

Changing image to 1360 * 1040.

Zoom Fit

Fitting image to window.

Zoom In

Expanding image of Right-clicked place.

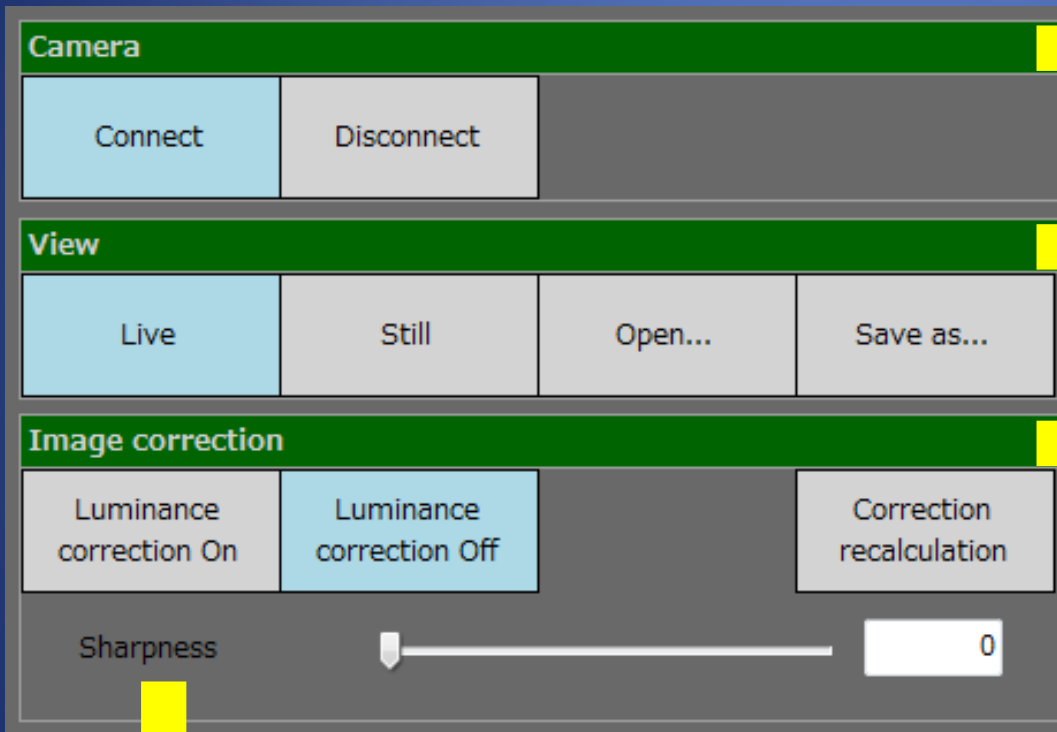
Zoom Out

Reducing image of Right-clicked place.

Center Here

The right-clicked place is made the center of Image display part.

“Clear Back” Operation of the image



- Connect and Disconnect of the camera

- Choice of the live image and the still image
- Open and of the data

- The correction to make the image luminance uniformity in the background
- On and Off of correction processing

- The pale image is made clear by emphasizing the edge.

“Clear Back” Control of the image

The image shows a control panel for a camera with two main sections: Gain and Shutter. The Gain section has radio buttons for 'Auto' (selected) and 'Manual'. Under 'Auto', there is a slider for 'Auto range' with a value of 255 and a slider for 'Gain' with a value of 100. The Shutter section has radio buttons for 'Auto' (selected) and 'Manual'. Under 'Auto', there are sliders for 'Min' (value 1), 'Max' (value 100000), and 'Target Luminance' (value 128). Under 'Manual', there is a slider for 'Shutter' with a value of 30000. Yellow arrows point from the Gain and Shutter headers to their respective explanation boxes on the right.

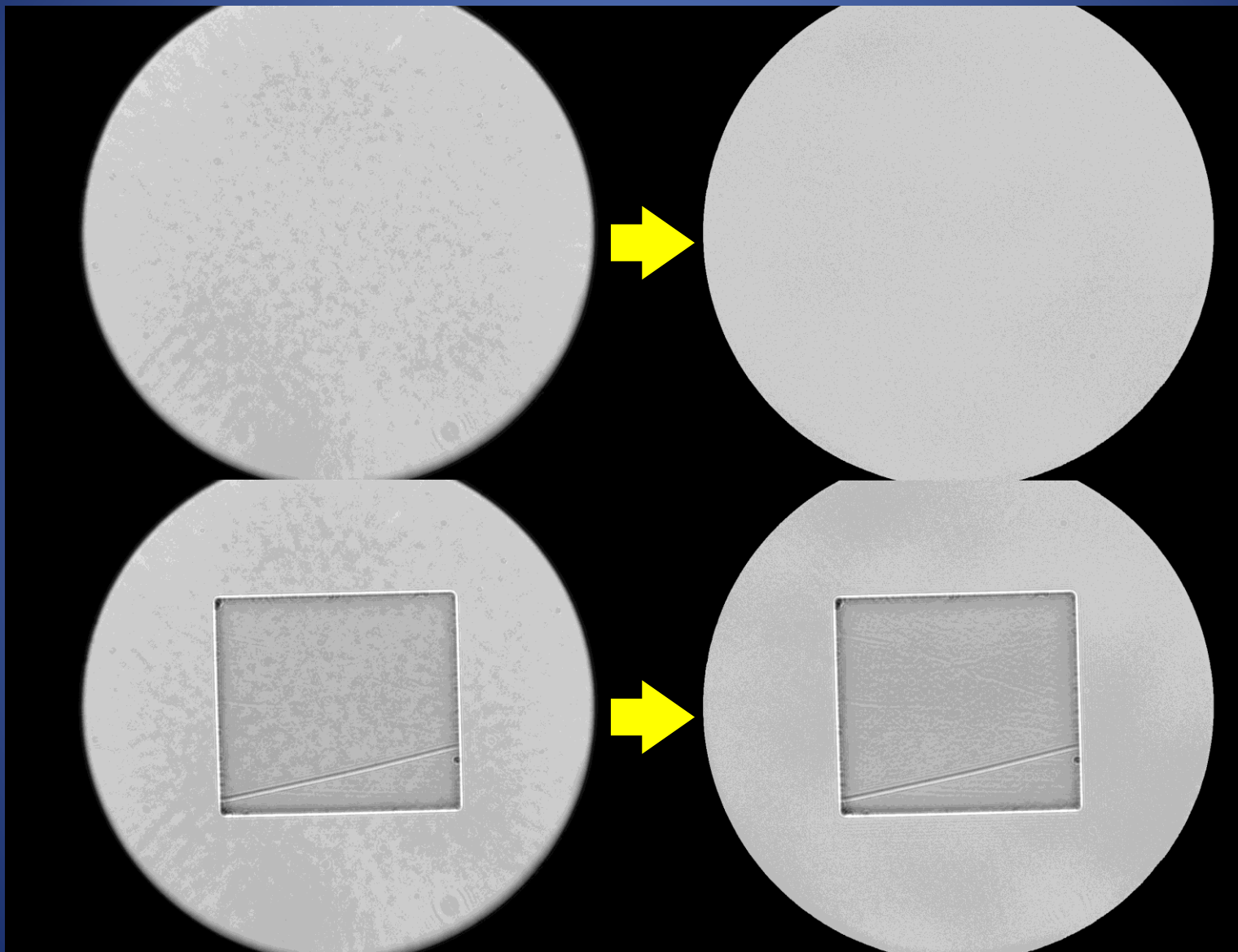
- Changing the gain
- Upper limit setting of automatic gain control

- Changing the exposure

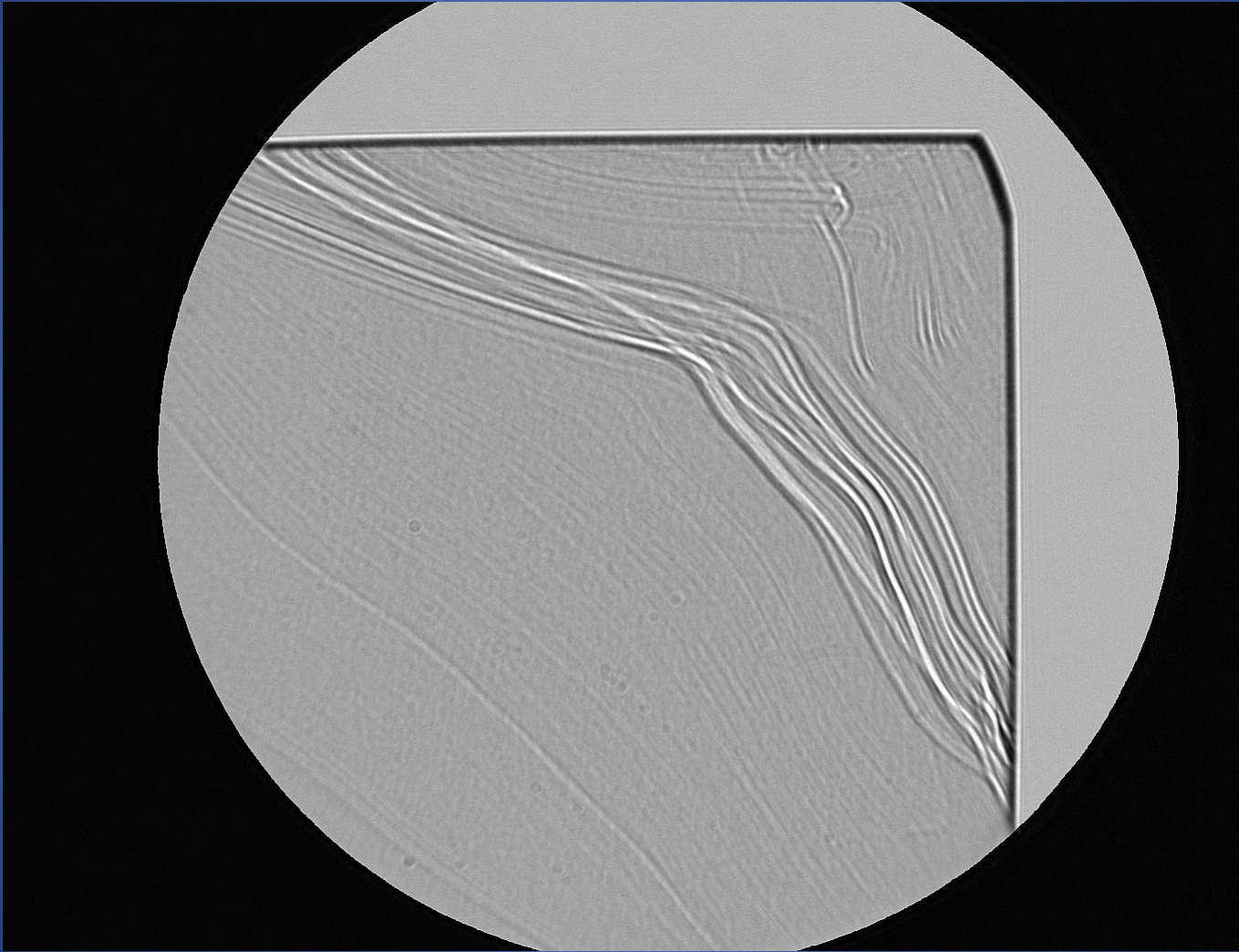
- Setting for the range of the automatic shutter
- The target value of the image luminance of the automatic shutter

- Setting of the manual shutter

“Clear Back” Example of the correction



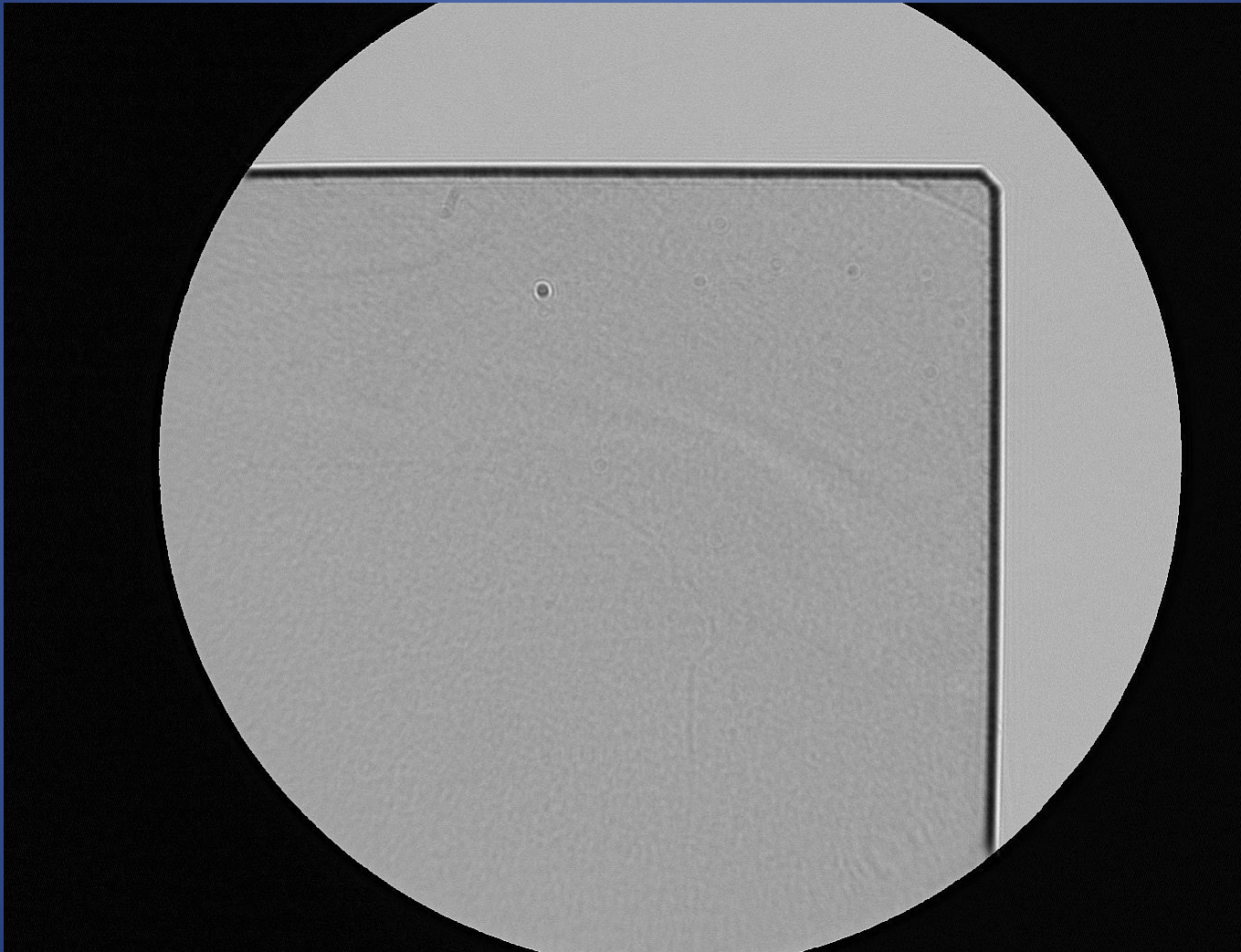
“Clear Back” Observation example



IR-cutting colored glass filter

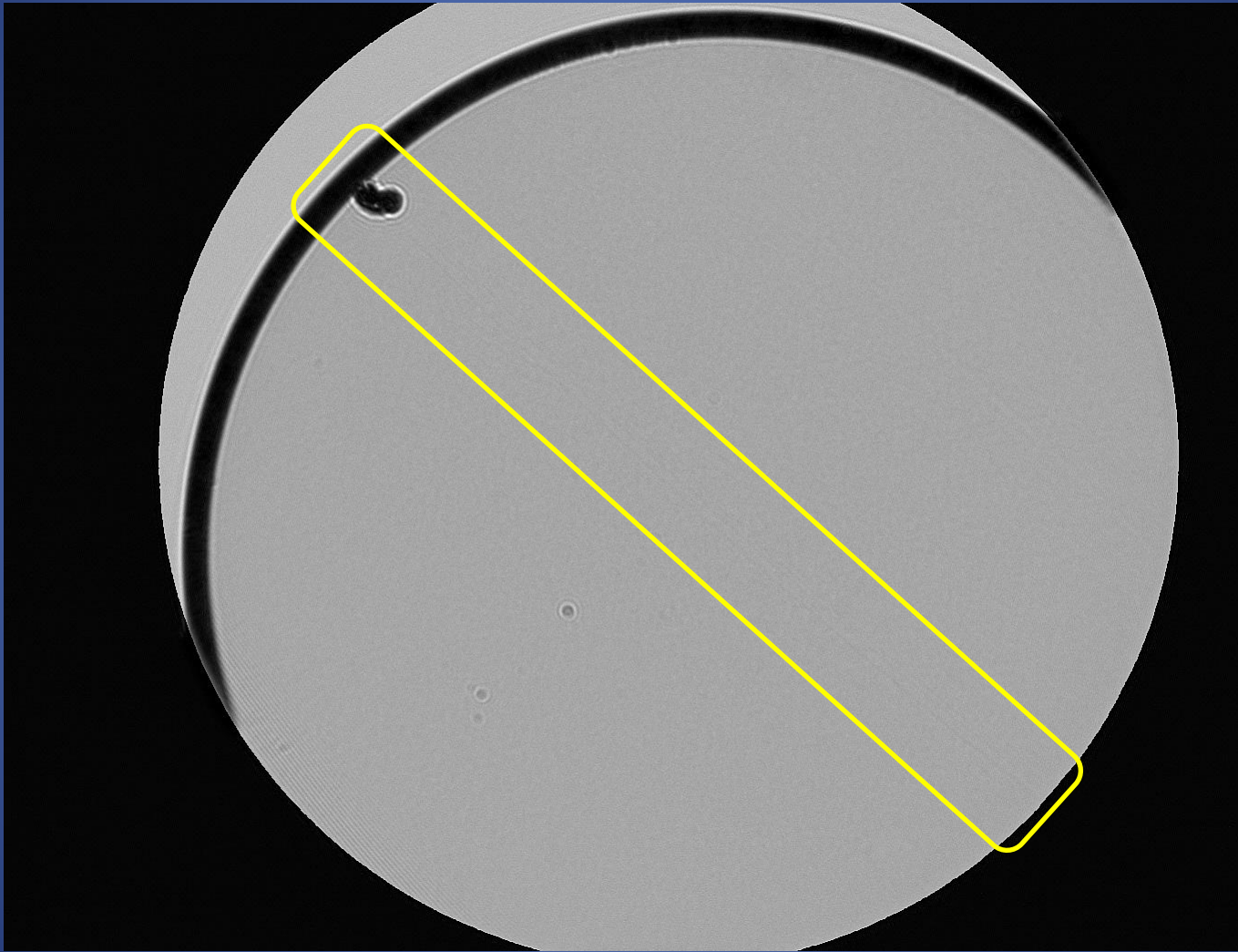
Very strong striae

“Clear Back” Observation example



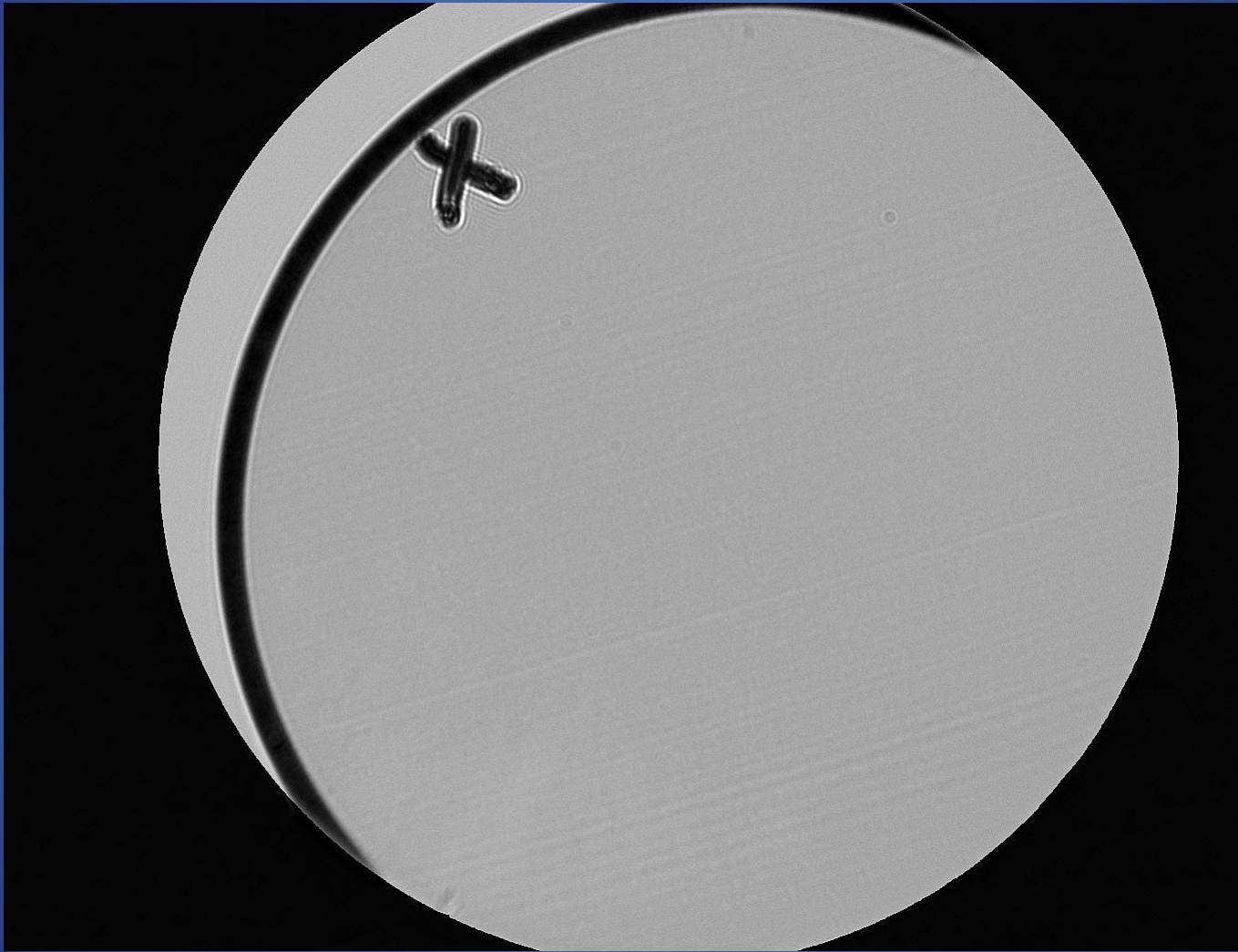
IR-cutting colored glass filter
Orange peel on the entire surface

“Clear Back” Observation example



Circular cover glass

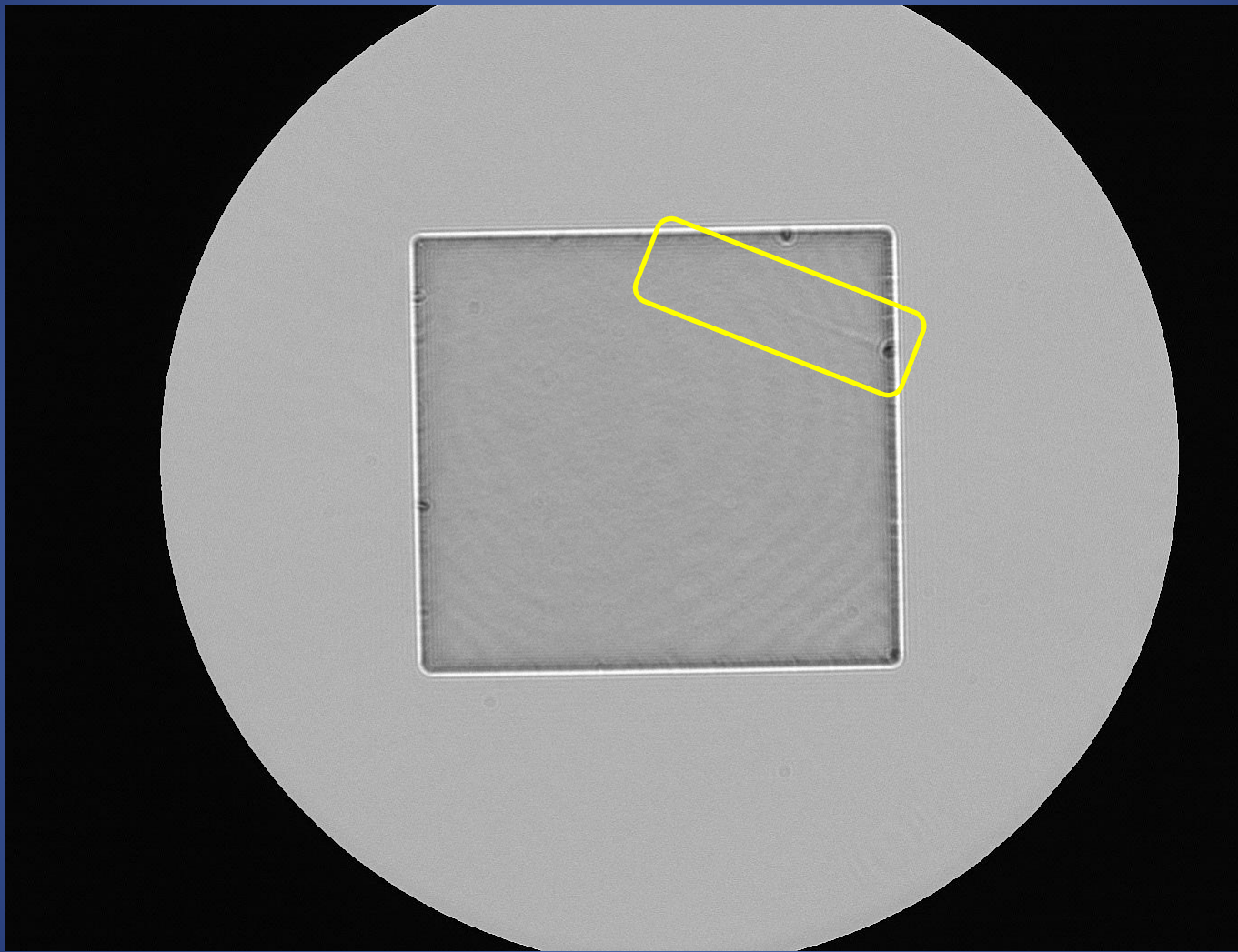
“Clear Back” Observation example



Circular cover glass

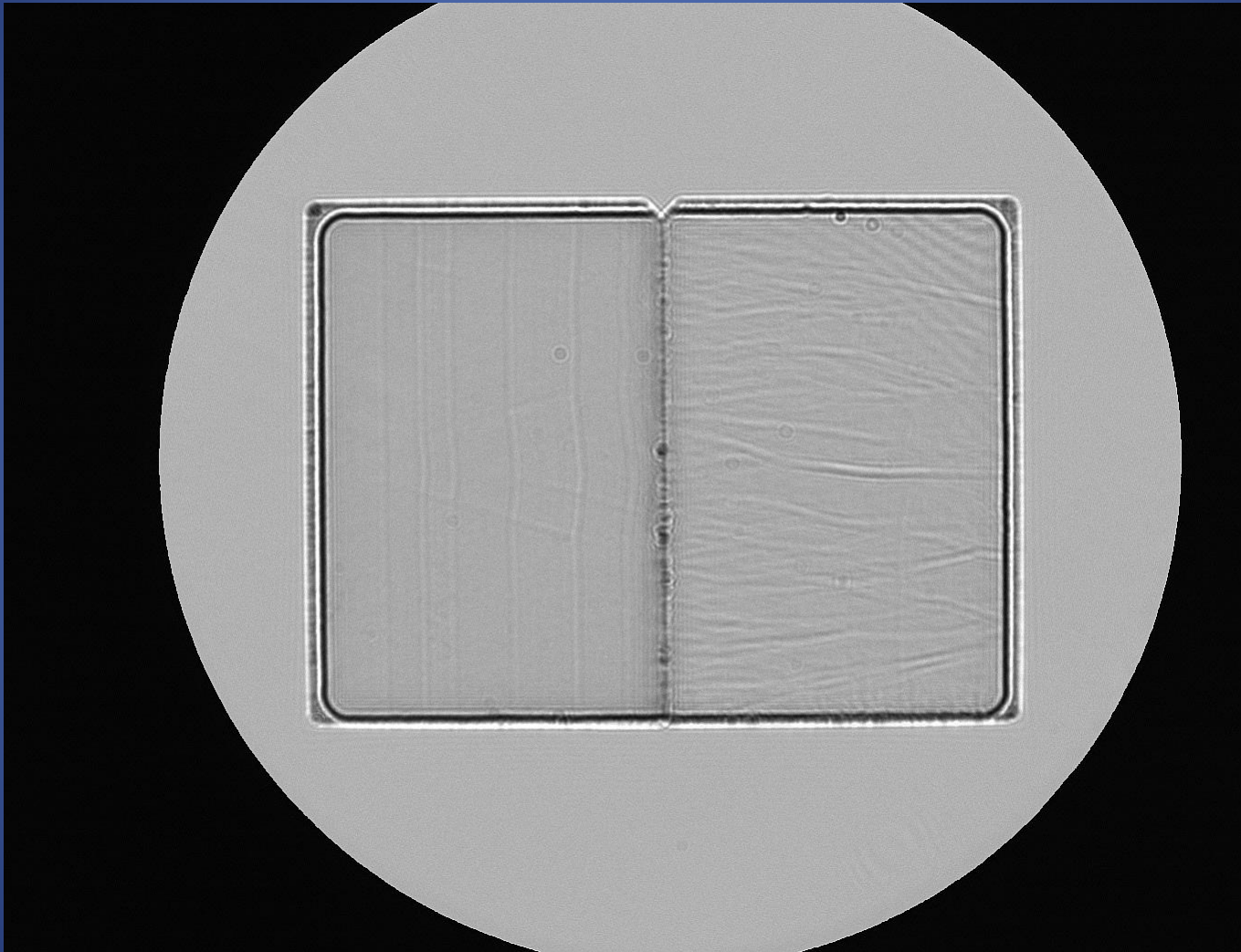
The linear trace on the entire surface

“Clear Back” Observation example



Crystal wave plate

“Clear Back” Observation example



Crystal wave plate

Striae on the entire surface