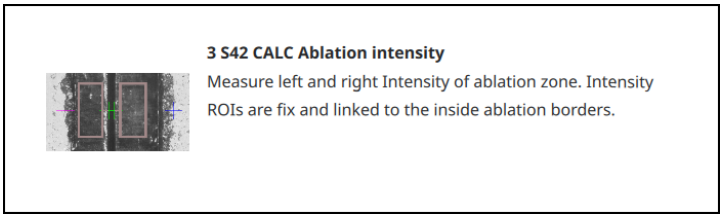
3 - S42 CALC Ablation intensity

Description

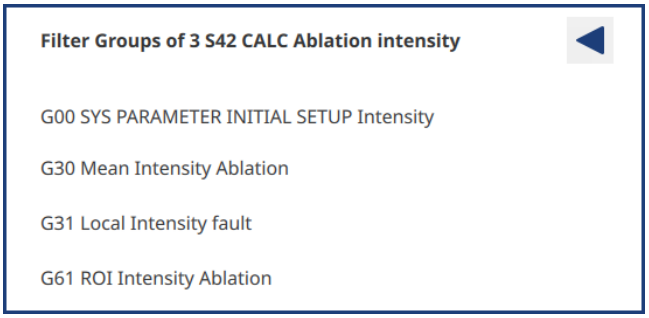
Calculates for the left and right blank the intensity in the ablation zone in separate ROIs (**R**egion **O**f **I**nterest). The two intensity ROIs are attached to the gap position left and right. Inside the ROIs a mean intensity over all pixels is calculated.

Additionally local faults may be detected with the surface detection (small boxes/tiles). For each small box/tile the mean intensity is calculated and the threshold in the 'Surface classifier' defines 'good' or 'bad'. The number of connected bad boxes/tiles is compared with the defect value ("NoAblation size left/right").

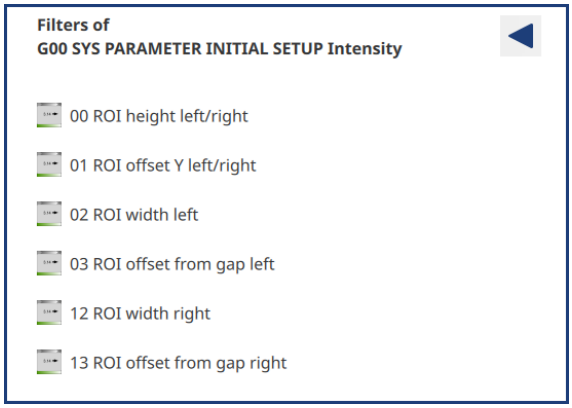
Icon



Parameters



G00 SYS PARAMETER INITIAL SETUP



Parameter	Comment
Number	Height of intensity ROI left and right. [Pixel]

Parameter	Comment
Number	Offset in Y direction of the intensity ROI in pixel. The center of the intensity ROI is centered in Y direction in the ablation ROI. [Pixel]

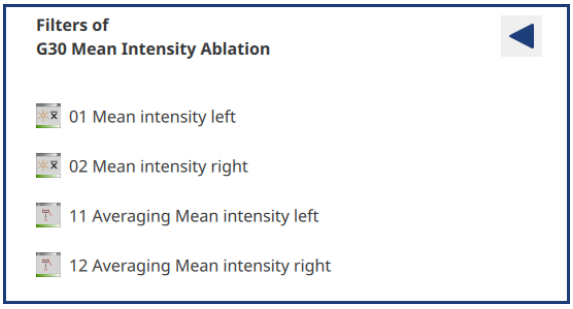
Parameter	Comment
Number	Width of the left intensity ROI. [Pixel]

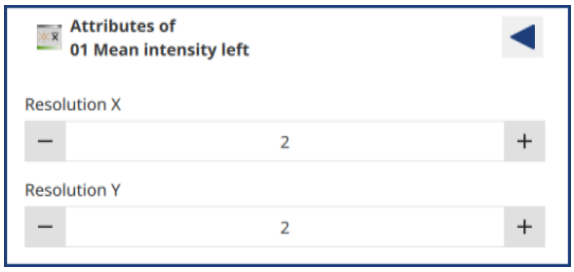
Parameter	Comment
Number	Horizontal distance of the left intensity ROI from the left gap border. [Pixel]

Parameter	Comment
Number	Width of the right intensity ROI. [Pixel]

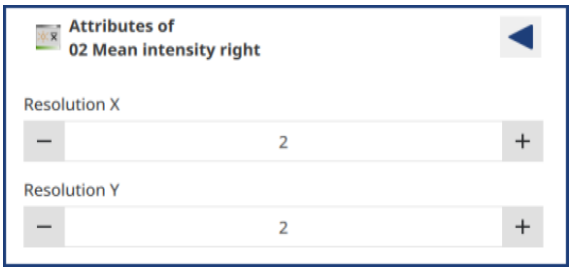
Parameter	Comment
Number	Horizontal distance of the right intensity ROI from the right gap border. [Pixel]

G30 Mean Intensity Ablation





Parameter	Comment
Resolution X	Pixel resolution in X (horizontal) for the mean intensity in the left side ROI. [Pixel]
Resolution Y	Pixel resolution in Y (vertical) for the mean intensity in the left side ROI. [Pixel]

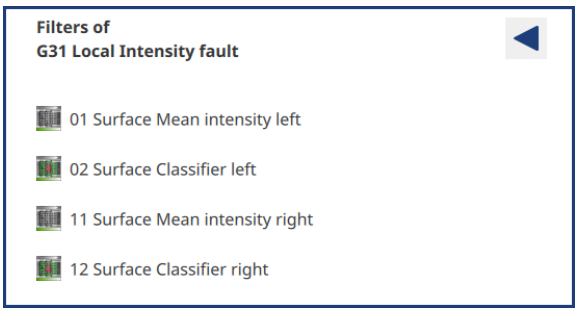


Parameter	Comment
Resolution X	Pixel resolution in X (horizontal) for the mean intensity in the right side ROI. [Pixel]
Resolution Y	Pixel resolution in Y (vertical) for the mean intensity in the right side ROI. [Pixel]

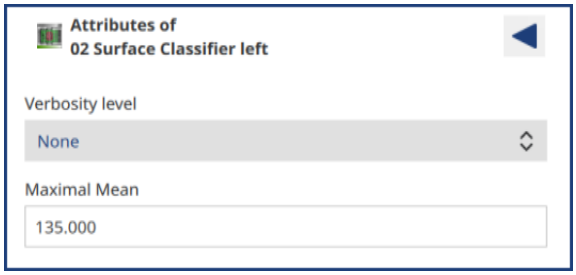
Parameter	Comment
Filter length	Number of camera images to filter the intensity results on the left side.

Parameter	Comment
Filter length	Number of camera images to filter the intensity results on the right side.

G31 Local Intensity fault

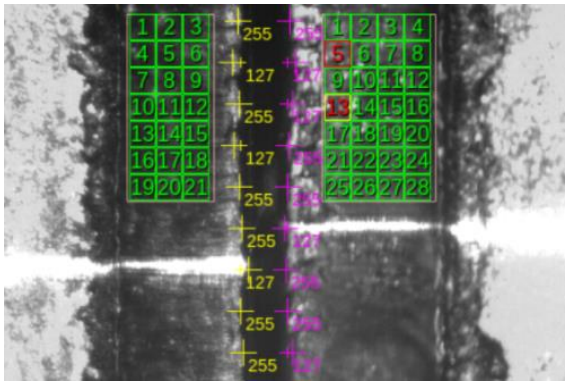


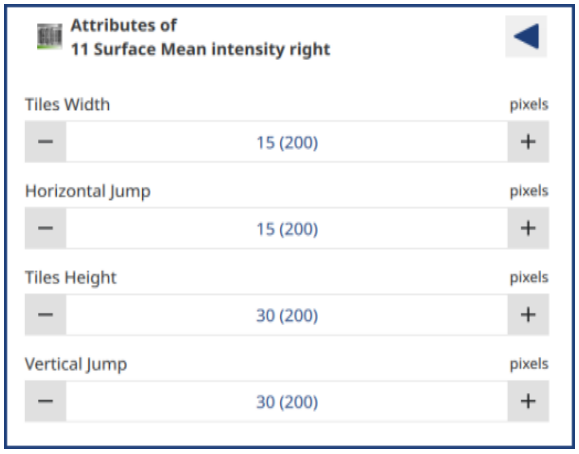
Parameter	Comment
Tiles Width	Width of a box/tile in the intensity ROI. [Pixel]
Horizontal Jump	Distance from a box/tile to the next in the horizontal direction. [Pixel]
Tiles Height	Height of a box/tile in the intensity ROI. [Pixel]
Vertical Jump	Distance from a box/tile to the next in the vertical direction. [Pixel]



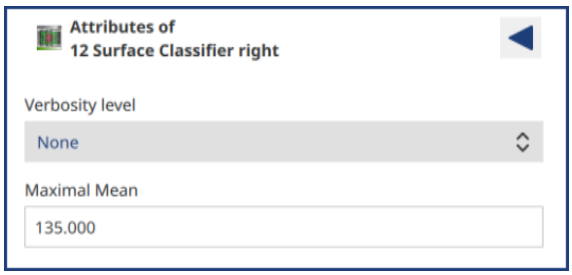
Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Maximal Mean	Threshold for the mean 'box/tile' intensity. [Greylevel]

Verbosity example:
Inside the left/right ablation ROIs are the boxes/tiles for the detection of local defects visible. Red boxes/numbers mark those boxes that are over the threshold value.



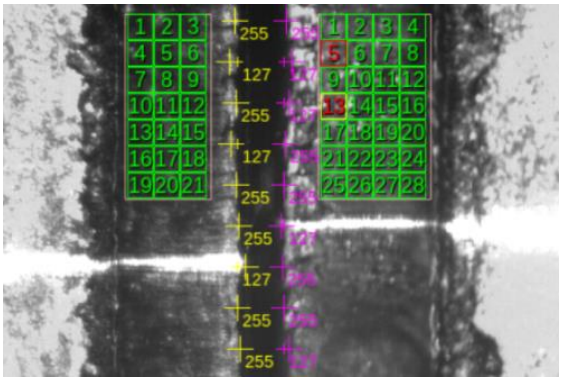


Parameter	Comment
Tiles Width	Width of a box/tile in the intensity ROI. [Pixel]
Horizontal Jump	Distance from a box/tile to the next in the horizontal direction. [Pixel]
Tiles Height	Height of a box/tile in the intensity ROI. [Pixel]
Vertical Jump	Distance from a box/tile to the next in the vertical direction. [Pixel]

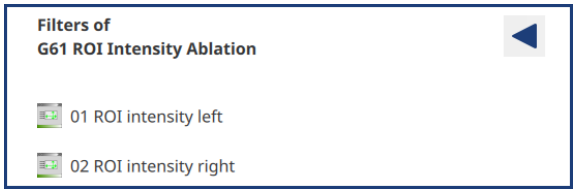


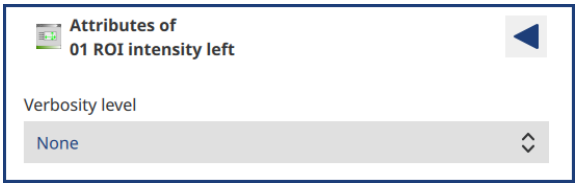
Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Maximal Mean	Threshold for the mean 'box/tile' intensity. [Greylevel]

Verbosity example:
Inside the left/right ablation ROIs are the boxes/tiles for the detection of local defects visible. Red boxes/numbers mark those boxes that are over the threshold value.



G61 ROI Intensity Ablation

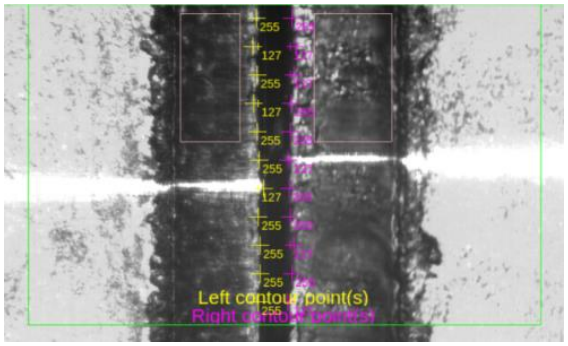




Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.

Verbosity example:
Displayed are the left/right ablation ROIs.



Measured values for plotter

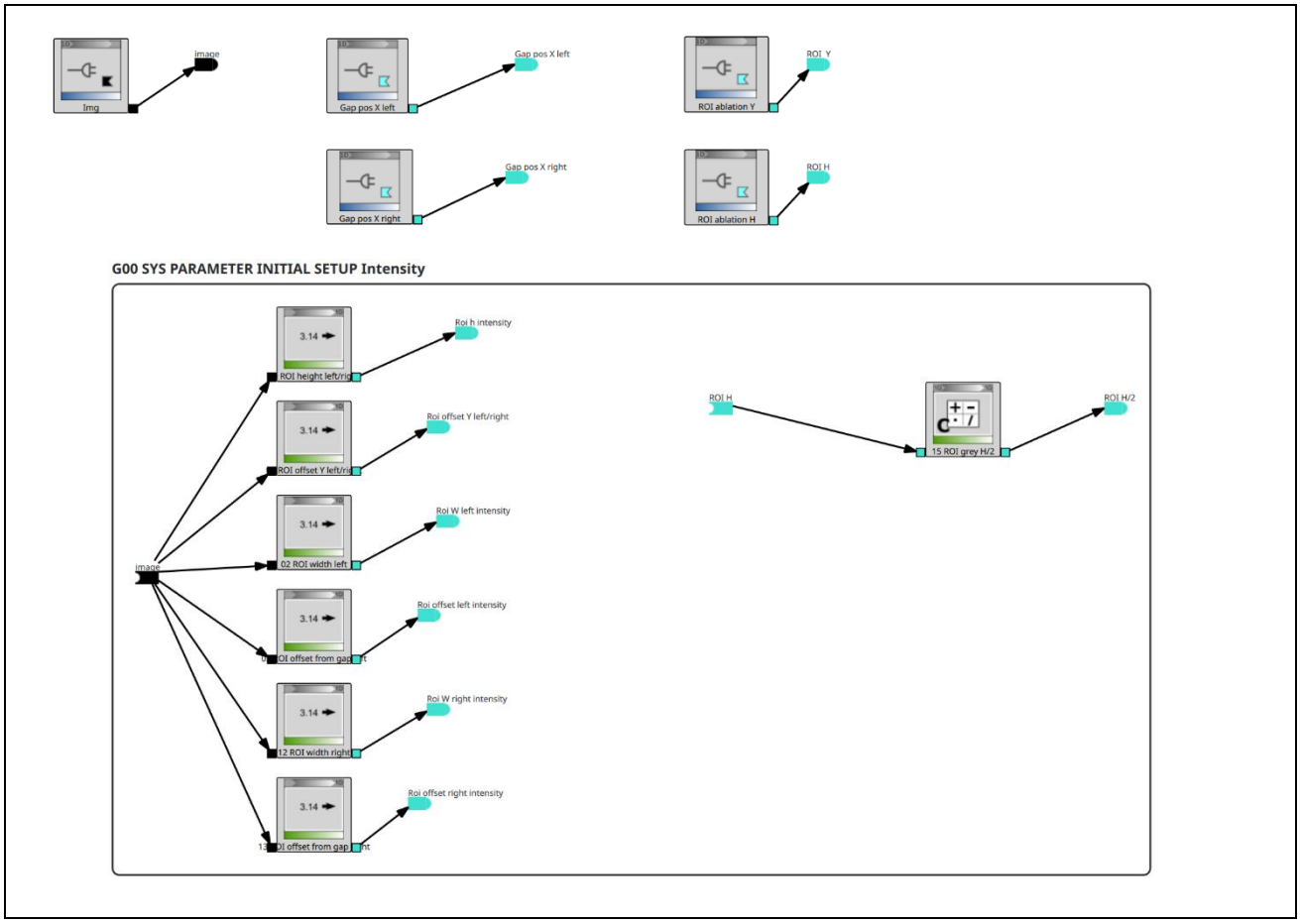
591	0 .. 255	Intensity ablation left
592	0 .. 255	Intensity ablation right
593	No. of boxes	NoAblation size left
594	No. of boxes	NoAblation size right

Subgraphs interface

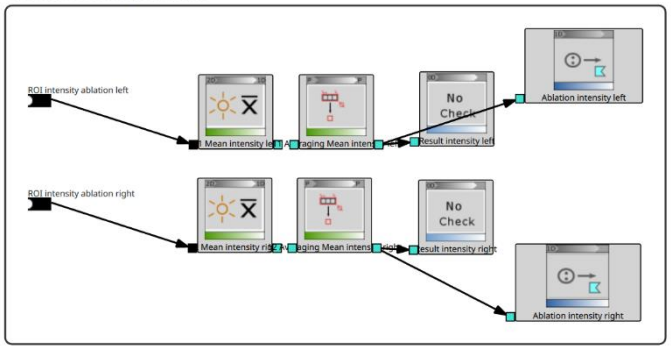
IN bridges **OUT bridges**

image	Img	**value**	Ablation intensity left Ablation intensity right
value	Gap pos X left / right ROI ablation Y / H		

Graph block diagram



G30 Mean Intensity Ablation



G31 Local Intensity fault