



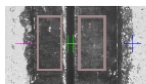
3 - S42 CALC Ablation intensity

■ Description

Calculates for the left and right blank the intensity in the ablation zone in separate ROIs (**R**egion **O**f Interest). 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



3 S42 CALC Ablation intensity

Measure left and right Intensity of ablation zone. Intensity ROIs are fix and linked to the inside ablation borders.

■ Parameters

Filter Groups of 3 S42 CALC Ablation intensity



G00 SYS PARAMETER INITIAL SETUP Intensity


G30 Mean Intensity Ablation


G31 Local Intensity fault


G61 ROI Intensity Ablation


G00 SYS PARAMETER INITIAL SETUP


Filters of
G00 SYS PARAMETER INITIAL SETUP Intensity


 00 ROI height left/right

 01 ROI offset Y left/right

 02 ROI width left

 03 ROI offset from gap left

 12 ROI width right

 13 ROI offset from gap right

Attributes of
00 ROI height left/right

Number

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

Attributes of
01 ROI offset Y left/right

Number

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]



Attributes of
02 ROI width left

Number

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

Attributes of
03 ROI offset from gap left

Number

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

Attributes of
12 ROI width right

Number

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


Attributes of
13 ROI offset from gap right


Number


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


G30 Mean Intensity Ablation

Filters of
G30 Mean Intensity Ablation

 01 Mean intensity left

 02 Mean intensity right

 11 Averaging Mean intensity left

 12 Averaging Mean intensity right

Attributes of
01 Mean intensity left

Resolution X

—

2

+

Resolution Y

—

2

+

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]

Attributes of
02 Mean intensity right

Resolution X

—

2

+

Resolution Y

—

2

+


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]




Attributes of
11 Averaging Mean intensity left


Filter length
N values


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






Attributes of
12 Averaging Mean intensity right



Filter length
N values

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

G31 Local Intensity fault

Filters of
G31 Local Intensity fault


 01 Surface Mean intensity left
 02 Surface Classifier left
 11 Surface Mean intensity right
 12 Surface Classifier right


Attributes of
01 Surface Mean intensity left


Tiles Width

—

15 (200)

+

pixels

Horizontal Jump

—

15 (200)

+

pixels

Tiles Height

—

30 (200)

+

pixels

Vertical Jump



—

30 (200)

+

pixels

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]


Attributes of
02 Surface Classifier left


Verbosity level

None

⬆ ⬇ ⬆

Maximal Mean

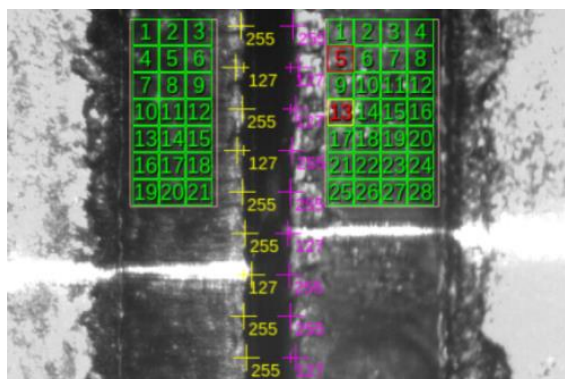
135.000

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.



Attributes of
 11 Surface Mean intensity right


Tiles Width pixels

Horizontal Jump pixels


Tiles Height pixels

Vertical Jump pixels

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]



Attributes of
12 Surface Classifier right



Verbosity level

None

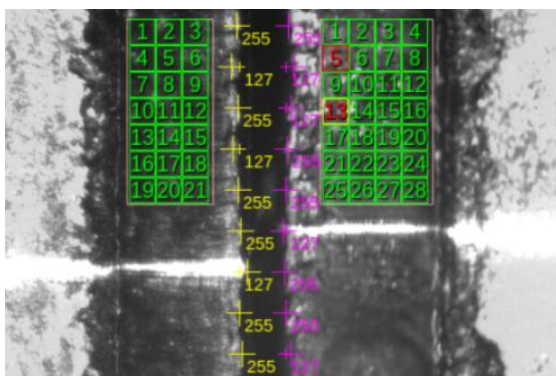
Maximal Mean

135.000

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



Filters of

G61 ROI Intensity Ablation




 01 ROI intensity left

 02 ROI intensity right

 **Attributes of**
01 ROI intensity left 

Verbosity level

None 

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

 **Attributes of**
02 ROI intensity right

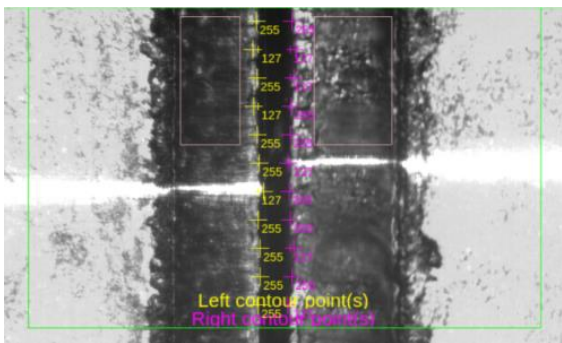
Verbosity level

None

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

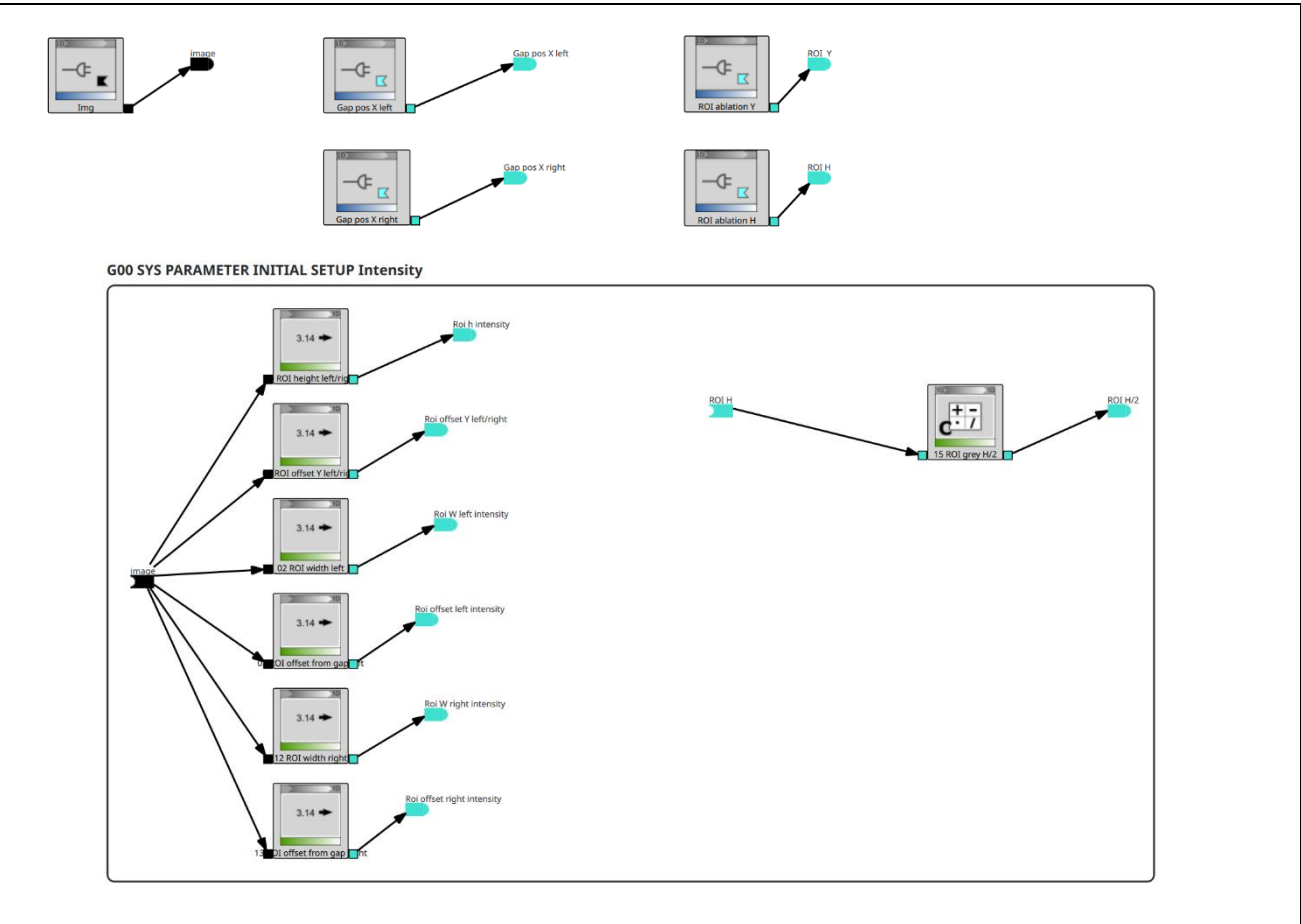
■ Subgraphs interface

IN bridges

OUT bridges

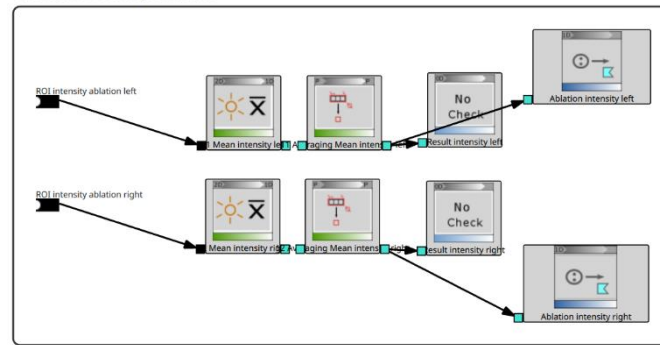
 image	Img	 value	Ablation intensity left Ablation intensity right
 value	Gap pos X left / right ROI ablation Y / H		

■ Graph block diagram





G30 Mean Intensity Ablation



G31 Local Intensity fault

