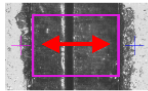# *2 - S42 ROI Grey based on Ablation*

■ **Description**

Definition of the rectangle of the ROI (**R**egion **O**f **I**nterest) for the grey image seam search, centered in the found ablation zone. Offsets left and right shift the ROI borders left and right fix for the new grey ROI.

■ **Icon**

2 S42 ROI Grey based on Ablation
dynamic grey ROI based on found outside ablation borders

■ **Parameters**

Filters of
2 S42 ROI Grey based on Ablation ◀

- 01 ROI grey centered
- 01.1 Offset left
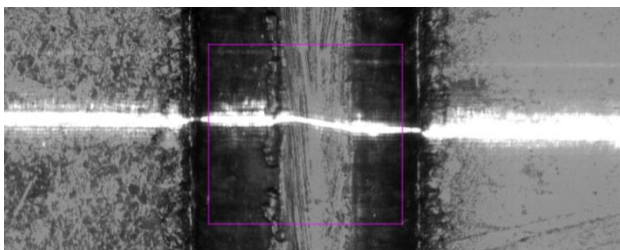- 01.2 Offset right
- 01.3 min. width
- 92 Plaus. min. ROI Height

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

Verbosity example:
The magenta rectangle shows the ROI position where to search for the weld seam. The width and height are given by the ablation ROI width and height (set in subgraph "2 S40").

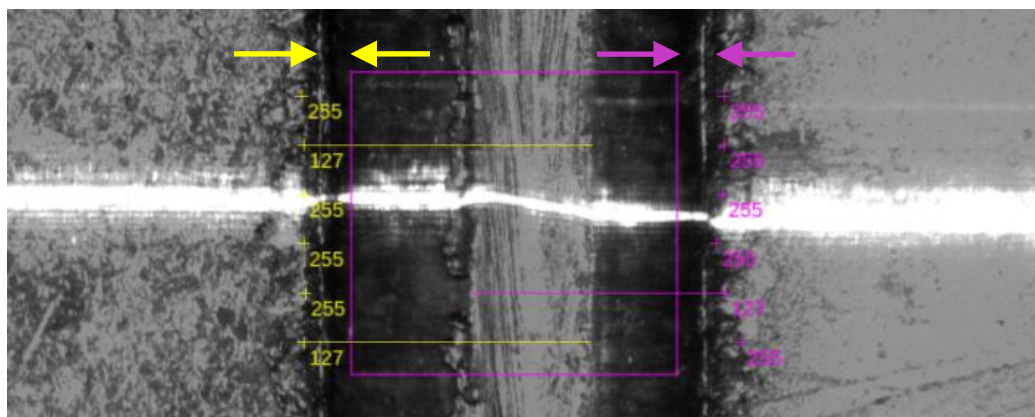| Parameter	Comment
Number	Shifts the left ROI border away from the left ablation zone border towards the seam. [Pixel]

Parameter	Comment
Number	Shifts the right ROI border away from the right ablation zone border towards the seam. [Pixel]

Explanation example of "Offset":
The yellow arrows show the "offset" on the left side, the magenta arrows show the "offset" on the right side for the ROI where to search for the weld seam.

Parameter	Comment
Number	Threshold for the minimum ROI width, considering the left and right offset values. Lower than the threshold, the ROI is invalid. [Pixel]

Parameter	Comment
Number	Threshold for the minimum ROI height of plausibility check. Lower than the threshold, the ROI is invalid. [Pixel]

- **Measured values for plotter**

730	0/1	ROI grey valid

Subgraphs interface

IN bridges

◧ **image**	Img
◧ **value**	ROI ablation Y / H
	Ablation out X left
	Ablation out X right

OUT bridges

◧ **image**	ROI grey
◧ **value**	ROI grey X / Y / W / H
	ROI grey valid

Graph block diagram

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