

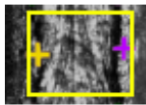


## 5 - S2y ROI Seam - Set Y and H

### ■ Description

Searches a ROI (**R**egion **O**f Interest) for further grey image analysis.

### ■ Icon



5 S2y ROI Seam - Set Y and H  
Search seam borders left and right

### ■ Parameters

Filters of  
5 S2y ROI Seam - Set Y and H



01 MaxJump



02.1 Offset left



02.2 Offset right



03 Mean filter Seam position



04 ROI seam - Set Y and H



80 ROI Plaus left



80.1 ROI width of blank intensity check left/right




90 ROI Plaus right




90.1 Plausibility min part present intensity



90.2 Plausibility min seam intensity



Attributes of  
01 MaxJump




Start image number

Maximum jump width


Max. diff. Change

AddOn per image

Parameter	Comment
Start image number	The image number, when the filter becomes active. Value must be 2 or bigger, because at least one value must exist for the filter.
Maximum jump width	Max. allowed (horizontal) change of the seam border <b>positions</b> . If the difference on the left side positions and/or the right side positions is bigger, the old left/right position values are used. [Pixel]
Max. diff. Change	Maximum allowed change of the (horizontal) <b>distance</b> of the two values, which is the seam width. If the change is bigger, the old left/right seam position values are used. [Pixel]
AddOn per image	If one or both seam border positions exceed the allowed "Maximum jump width" or the position distance exceeds the "Max. diff. Change", the actual values of "Maximum jump width" and "Max. diff. Change" are both increased by "AddOn per image". If both seam border positions and the change of the position distance are all OK, the value for "Maximum jump width" and "Max. diff. Change" are both reset to their given parameter values. [Pixel]



Attributes of  
02.1 Offset left



Number

Parameter	Comment
Number	Shifts the left ROI border rightward. [Pixel]



**Attributes of**  
02.2 Offset right

Number

0.000

Parameter	Comment
Number	Shifts the right ROI border leftward. [Pixel]

**Attributes of**  
03 Mean filter Seam position

Kind of low pass

Mean

Filter length

N values

1

Parameter	Comment
Kind of low pass	Algorithm to filter the found seam positions: <ul style="list-style-type: none"> <li>• Mean</li> <li>• Median</li> <li>• Minimum</li> <li>• Maximum</li> </ul>
Filter length	This smoothens the "expected" seam position, which will be used for the next image as a prediction. [Images]

**Attributes of**  
04 ROI seam - Set Y and H

Verbosity level

None

Start value y

50

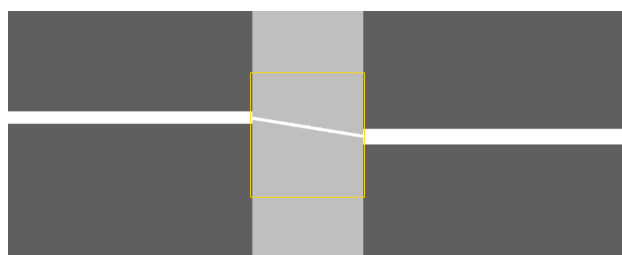
Height of the roi

350

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Start value y	Upper border of ROI. [Pixel]
Height of the roi	Height of ROI. [Pixel]

#### Verbosity example:

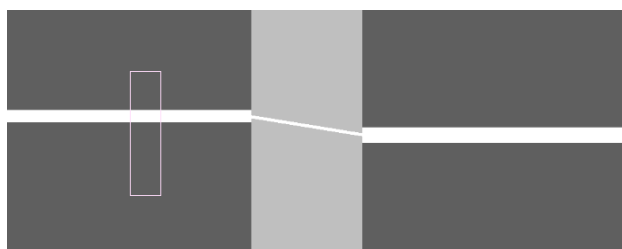
The yellow rectangle shows the found ROI for further seam analysis.



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

#### Verbosity example:

The magenta rectangle shows the ROI on the left side blank where the intensity is checked.





**Attributes of**  
 80.1 ROI width of blank intensity check left/right

Number

Parameter	Comment
Number	Width of the ROI where to check the intensity on the blanks. [Pixel]

**Attributes of**  
 90 ROI Plaus right

Verbosity level  

None

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

### Verbosity example:

The magenta rectangle shows the ROI on the right side blank where the intensity is checked.



**Attributes of**  
 90.1 Plausibility min part present intensity

Number

Parameter	Comment
Number	Min. necessary intensity level to decide if the ROI is on blank or outside. [Greylevel]

Number

Parameter	Comment
Number	Min. necessary intensity level to decide if "on seam" or outside to measure the notch size. [Greylevel]

■ Measured values for plotter

557	0 / 1	Plausibility light error
575	0 ... 255	Intensity Part left
576	0 ... 255	Intensity Part right
700	0 ... xxx	Seam position left
701	0 ... xxx	Seam position right
702	0 ... xxx	Seam position center
731	0 ... 255	Intensity Seam

■ Subgraphs interface

IN bridges

image  value	Img ROI preSeam  Seam pos left Seam pos right ROI preSeam X ROI preSeam W ROI preSeam valid Start end active
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OUT bridges

image  value	ROI seam  Seam pos left filtered Seam pos right filtered Seam pos center filtered PlausError grey
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## ■ Graph block diagram

