



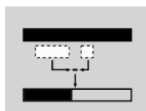
5 - S25 SEARCH Seam GREY Gradient

■ Description

Search seam borders left and right by checking intensity changes.

The rectangle of the ROI (**R**egion **O**f **I**nterest) is cut in small horizontal stripes. In each stripe a left and right seam border position is searched. The average over all positions gives the final position for the left and for the right border position.

■ Icon



5 S25 SEARCH Seam GREY Gradient

Search seam borders left and right

■ Parameters

Filters of 5 S25 SEARCH Seam GREY Gradient



02.1 Height of Stripe



03 Mean value of stripe



05 Gradient



06 Mean value of Gradient left



07 Mean value of Gradient right




08 SelectPeaks




09 Eliminate pos Outliers



10 Pos seam borders X




Attributes of
 02.1 Height of Stripe




Number


Parameter	Comment
Number	Number of lines in the image that are compressed to stripes for the seam detection. The higher the value the more lines are taken for the compressing. [Pixel]




Attributes of
 03 Mean value of stripe




Verbosity level

None
 

Filter length







 N Pixel

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Filter length	The noisier the brightness is, the higher this parameter must be selected (1 - 100). This smoothens the brightness in every stripe before further processing. [Pixel]




**Attributes of
05 Gradient**




Verbosity level
 None

Filter radius off seam N pixel
 — 5 +

Filter radius on seam N pixel
 — 10 +

Gradient type N pixel
 Bright seam

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Filter radius off seam	The noisier the brightness is, the higher this parameter must be selected (1 - 100). This smoothens the brightness in every stripe before further processing. Value is for the stripe part outside the seam. [Pixel]
Filter radius on seam	The noisier the brightness is, the higher this parameter must be selected (1 - 100). This smoothens the brightness in every stripe before further processing. Value is for the stripe part inside the seam. [Pixel]
Gradient type	How to check gradients at seam border: <ul style="list-style-type: none"> • Absolute = don't care if the seam intensity is higher or smaller than the blanks intensity • Dark seam = the intensity in the seam is expected to be smaller than the intensity outside on the blanks • Bright seam = the intensity in the seam is expected to be bigger than the intensity outside on the blanks


Attributes of
06 Mean value of Gradient left


Verbosity level

None



Filter length N Pixel

-

10

+

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Filter length	The noisier the brightness is, the higher this parameter must be selected (1 - 100). This eliminates too small intensity changes. [Pixel]


Attributes of
07 Mean value of Gradient right


Verbosity level

None

Filter length N Pixel

-

10

+

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Filter length	The noisier the brightness is, the higher this parameter must be selected (1 - 100). This eliminates too small intensity changes. [Pixel]



Attributes of
08 SelectPeaks

Verbosity level
 None

Default seam width N pixel
 — 120 +

Left gradient threshold Intensity
 — 15 +

Right gradient threshold Intensity
 — 15 +

Parameter	Comment
Verbosity level	Selection of verbosity level. Larger verbosity levels offer more overlay information.
Default seam width	Nominal seam width (in pixels). Guideline for the seam detection. [Pixel]
Left gradient threshold	Minimum brightness gradient in one stripe that is taken and, in order to detect the seam rim, must be surpassed. Separately for the left side. [Greylevel]
Right gradient threshold	Minimum brightness gradient in one stripe that is taken and, in order to detect the seam rim, must be surpassed. Separately for the right side. [Greylevel]

Attributes of
09 Eliminate pos Outliers

Verbosity level
 None

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


Attributes of
10 Pos seam borders X

Verbosity level
 None



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

■ Measured values for plotter



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■ Subgraphs interface

IN bridges

 image	Img ROI grey
 value	ROI grey X ROI grey Y ROI grey W ROI grey H ROI grey valid

OUT bridges

 image	ROI preSeam
 value	ROI preSeam X ROI preSeam Y ROI preSeam W ROI preSeam H ROI preSeam valid Seam pos left Seam pos right



■ Graph block diagram

