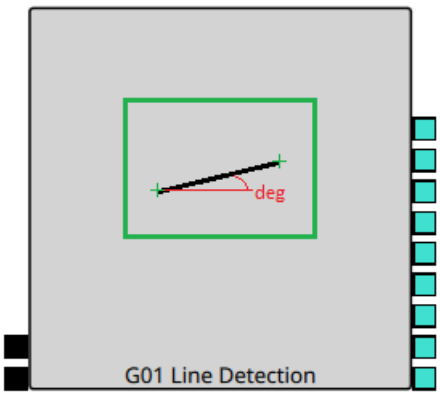
Precitec Macro Documentation

05 Line Detection

Changelog

Date	Version	Autor	Tested on	Description
2023-03-03	A	Abt	5.19.13	New documentation

Description



Turns user Parameter into constant value data stream.

I1: Img
I2: ROI
O1: Pos x_1 [px]
O2: Pos y_1 [px]
O3: Pos x_1 for Scanner
O4: Pos y_1 for Scanner
O1: Pos x_2 [px]
O2: Pos y_2 [px]
O3: Pos x_2 for Scanner
O4: Pos y_2 for Scanner
O9: Angle

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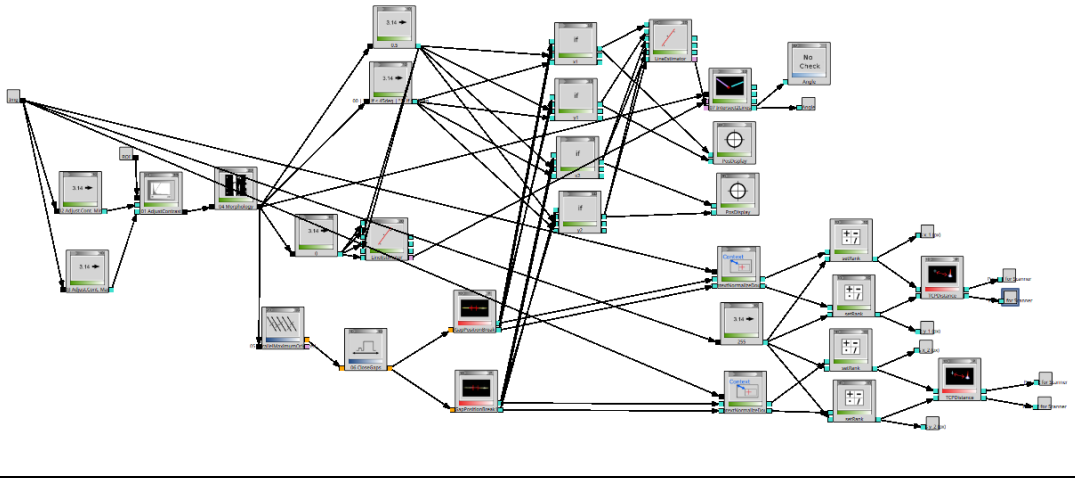
- **Macro structure**



Creates a symmetric Grid, with shifts a welding Figure on different positions after each seam.

- **Parameter**

NAME	VALUE	Description	UserLevel
00 | "0" if < 45deg | "1" if > 45 deg → Number	**0**	Switch ON / OFF	Admin
01 AdjustContrast → Operation	**BinarizeIn**	Adjusting Contrast	Admin
02 AdjustContrast Min. →Number	**32**	Minimum contrast	Admin
03 AdjustContrast Max. → Number	**1**	Maximum contrast	Admin
04 Morphology → Operation	**Closing**	Closing black pixel into white pixel	Admin
04 Morphology → Number of operations	**8**	Value of operations	Admin
05 ParallelMaximumOriented → Horizontal main direction	**ON**	Switch direction	Admin
05 ParallelMaximumOriented → HandleTransposeIn	**OFF**	Switch direction	Admin

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05 ParallelMaximumOriented → Resolution in X direction	**1**	Filterlength in X	Admin
05 ParallelMaximumOriented →Resolution in Y direction	**1**	Filterlength in Y	Admin
05 ParallelMaximumOriented → Threshold	**30**	Treshold of operations	Admin
05 ParallelMaximumOriented → Subroi dilation	**1**		Admin
05 ParallelMaximumOriented → Fine tracking enabled	**On**	Switch Fine tracking	Admin
05 ParallelMaximumOriented →Maximal line width	**20**	Defines your maximal line width	Admin
06 CloseGaps → Minimal segment lengh	**75**	Defines your minimal Linelength	Admin
06 CloseGaps → Max. jump Y	**15**	Maximal jump of length	Admin
06 CloseGaps → Maximal interpolation	**10**	Maximal interpolation	Admin
07 Intersect2Lines → Precitec.Filter.Attribute.Intersect2Lines	**Off**	Switch to Show Angle	Admin