



Special – NGS1_D_nn

■ Description

Output of the measurement values. Here we can

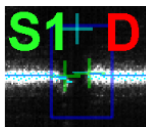
- change the sign
- add an offset to the result
- make a double filtering in time (Median, Mean)
- truncate (number of digits after the decimal point)

Outputs are:

- height difference, mismatch (out of subgraph NGS1_A)
- Ypos cam mm, S6K edge position (out of subgraph NGS1_C)
- gap width, S6K gap width (out of subgraph NGS1_C)

nn: declaration of the actual subgraph version (here: version 06).

■ Icon



NGS1_D_06

Comment for the new graph

■ Parameters

Filter Groups of NGS1_D_06




G00 Ypos


G02 gap


G03 height difference


G00 Ypos


Filters of
G00 Ypos

 P00 direction 1 or -1 Ypos

 P01 median loww pass

 P02 mean low pass

 P03 add offset Y mm

 P04 Round digits

Attributes of
P00 direction 1 or -1 Ypos

Value

1.000

Parameter	Comment
Value	1 y position direct sent out
	-1 sign of y position is changed and then sent out

Attributes of
P01 median loww pass

Filter length

5

N values

Maximal jump.

0.050

Parameter	Comment
Filter length	Filtering over the given number of images to smoothen the y positions. [Images]
Maximal jump	Max. allowed distance of the new y position to the filtered y position, that the new y position is valid and taken over into the filter. [Pixel]



Attributes of
P02 mean low pass

Filter length N values

Maximal jump.

Parameter	Comment
Filter length	Filtering over the given number of images to smoothen the y positions. [Images]
Maximal jump	Max. allowed distance of the new y position to the filtered y position, that the new y position is valid and taken over into the filter. [Pixel]

Attributes of
P03 add offset Y mm

Value

Parameter	Comment
Value	Constant offset added to the filtered y position. [mm]


Attributes of
P04 Round digits


Value


Parameter	Comment
Value	Number of digits in the result after the decimal point to be rounded to.


G02 gap


Filters of
G02 gap

 P00 gap direction x1 x-1

 P01 median low pass

 P02 mean low pass

 P03 add offset gap mm

 P04 Round digits

Attributes of
P00 gap direction x1 x-1

Operation

Multiplication

Value

0.000

Parameter	Comment
Operation	Div. mathematic operations.
Value	1 gap position direct sent out
	-1 sign of gap position is changed and then sent out

Attributes of
P01 median low pass

Filter length

5



N values

Maximal jump.

0.050

Parameter	Comment
Filter length	Filtering over the given number of images to smoothen the gap width. [Images]
Maximal jump	Max. allowed difference of the new gap width to the filtered gap width, that the new gap width is taken over into the filter. [mm]




Attributes of
P02 mean low pass


Filter length N values



Maximal jump.

Parameter	Comment
Filter length	Filtering over the given number of images to smoothen the gap width. [Images]
Maximal jump	Max. allowed difference of the new gap width to the filtered gap width, that the new gap width is taken over into the filter. [mm]


Attributes of
P03 add offset gap mm


Value

Parameter	Comment
Value	Constant offset added to the filtered gap width. [mm]



Attributes of
P04 Round digits



Value


Parameter	Comment
Value	Number of digits in the result after the decimal point to be rounded to.


G03 height difference


Filters of
G03 height difference

 P01 heightDiff direction

 P02 height difference low pass median

 P03 height difference low pass mean

 P04 direction 1 or -1 S6K mismatch

 P05 Round digits

Attributes of
P01 heightDiff direction

Value

1.000

Parameter	Comment
Value	1 height difference direct sent out
	-1 sign of height difference is changed and then sent out

Attributes of
P02 height difference low pass median

Filter length

5



N values

Maximal jump.

0.050

Parameter	Comment
Filter length	Filtering over the given number of images to smoothen the height difference measurements. [Images]
Maximal jump	Max. allowed difference of the new height difference measurement to the filtered height difference, that the new height difference measurement is taken over into the filter. [mm]






Attributes of
P03 height difference low pass mean


Filter length N values



Maximal jump.

Parameter	Comment
Filter length	Filtering over the given number of images to smoothen the height difference measurements. [Images]
Maximal jump	Max. allowed difference of the new height difference measurement to the filtered height difference, that the new height difference measurement is taken over into the filter. [mm]


Attributes of
P04 direction 1 or -1 S6K mismatch


Value

Parameter	Comment
Value	1 'S6K mismatch' measurement direct sent out -1 sign of 'S6K mismatch' measurement is changed and then sent out


Attributes of
P05 Round digits


Value

Parameter	Comment
Value	Number of digits in the result after the decimal point to be rounded to.



■ Measured values for plotter

504	-xxx .. +xxx	Ypos cam mm
111	-xxx .. +xxx	S6K edge position
516	0 .. xxx	Gap width mm
		S6K gap width mm
		Result height difference
		Result S6K Mismatch

■ Subgraphs interface

IN bridges

OUT bridges

 image	IMG		
 value	ypos raw mm gap raw mm heightDifference raw mm		

■ Graph block diagram

