

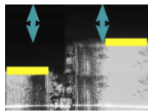


1 – S10 Camera with StartEnd

■ Description

Delivers camera images and can check the misalignment of the blanks at seam start and/or seam end.

■ Icon



1 S10 Camera with StartEnd

Provides
Img

■ Parameters

Filter Groups of 1 S10 Camera with StartEnd





G00 init

Filters of
G00 init



 01 Start End detection


**Attributes of
01 Start End detection**


Verbosity level
 None

Threshold at Start gray value
 80

Threshold at End gray value
 80

ROI Offset at Start pixel
 200 (0)

ROI Offset at End pixel
 200 (-2000)

Left search width pixel
 200

Right search width pixel
 200

Angle Start degrees
 0.000

Angle End degrees
 0.000

MinStripesMaterial Stripes
 3

| Parameter | Comment |
|---------------------|--|
| Verbosity level | Selection of verbosity level. Larger verbosity levels offer more overlay information. |
| Threshold at Start | Measured areas in the camera image above "threshold" intensity are considered as "blank part", areas below are considered as "outside blank". Value for seam start. [Greylevel] |
| Threshold at End | Measured areas in the camera image above "threshold" intensity are considered as "blank part", areas below are considered as "outside blank". Value for seam end. [Greylevel] |
| ROI Offset at Start | Distance from the inner blank side to the begin of seam analysis for defects. [Pixel] |
| ROI Offset at End | Distance from the inner blank side to the end of seam analysis for defects. [Pixel] |
| Left search width | Horizontal search range of left blank side, starting from the left camera image border. [Pixel] |
| Right Search width | Horizontal search range of right blank side, starting from the right camera image border. [Pixel] |



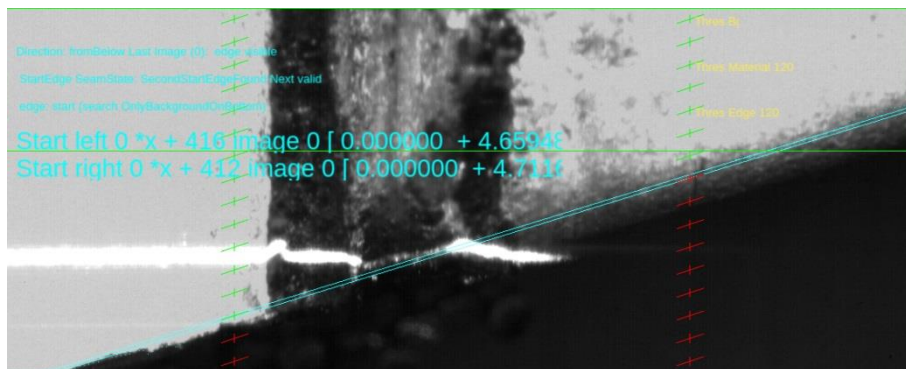
| | |
|--------------------|---|
| Angle Start | If the blank side at the seam start is not horizontal we can give here the expected angle of the blank side. [Degrees] |
| Angle End | If the blank side at the seam end is not horizontal we can give here the expected angle of the blank side. [Degrees] |
| MinStripesMaterial | Min. number of stripes with the intensity over threshold to have a 'blank start found'. Otherwise it's a 'black image' = outside blank. |

Verbosity example:

Red/Green crosses, vertically in the left and in the right image area, mark camera image areas that are "outside"/"inside" the blank.

A blue line for left side blank and a blue line for right side blank show the found blank edge, in the example with an "Angle Start" of -17 degree.

The green horizontal line indicates the "ROI Offset at Start", where to start with the grey image seam analysis. In the example, with a value of 5, the start notch is excluded from regular grey analysis.



■ Measured values for plotters

| | | |
|-----|-------|----------------|
| 704 | in mm | Seam length |
| 705 | in mm | Misalignment |
| 728 | bool | StartEnd found |

■ Subgraphs interface

IN bridges

OUT bridges

| | | | |
|--|--|-----------------------|---------------------------|
| | | image | Img |
| | | value | Start end active (1 = on) |
| | | start end info | Start end info |

■ Graph block diagram

