

Shark 4000 - Registry Keys

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Revision history

Date	Version	Comment
31.10.2008	1.0	First version of the document.
17.11.2008	1.1	New parameter: CameraMaxSpeed
01.12.2008	1.2	Added keys: EnableDynamicSpeedManagement and DynamicSpeedLimit
03.12.2008	1.3	Added key: AutoSetupReplen
15.12.2008	1.4	Added key: AsynchronousImageSaving
15.01.2009	1.5	Added key: EnableFormatImpulseDrawer, FormatImpulseDrawerNumSamples, FormatImpulseDrawerOnlyErrors
19.01.2009	1.6	Added key: MaxDiffFingTreshold
26.01.2009	1.7	Added key: LogDebugLevel
27.01.2009	1.8	Added key: CameraOpenDelay Reactivation of the EnableTotalFingerprint key
11.02.2009	1.9	Added key: FirstRegRunlength (this key was also added to version 1.3.16.2)
16.03.2009	1.10	AddedKey: FingerprintReliabilityCoeff, ControlSpeedThreshold DeletedKey: MaxDifFingThreshold
22.04.2009	1.11	Added key: PerReelReport Removed key: PerReelReport
07.05.2009	1.12	Added key: EnableCutterDistortionManagement
15.05.2009	1.13	Added key: EnableAutomaticFingThreshold, AutomaticFingThrCoeff, AutomaticFingThrMinDistMM
19.05.2009	1.14	Added key: ShowRollMetersInDH
25.05.2009	1.15	Added key: EnableAdditionalDefectInfo, ShowAdditionalLocatorInfo, EnableIOInputFilter
26.05.2009	1.16	Added key: InputSignalDurationMS_1, InputSignalDurationMS_2 Removed key: PCONip
24.07.2009	1.17	Added key: ConfigBackupFolder, EnableDoctorStreaksAlg, DoctorStreaksVertStep
26.08.2009	1.18	Notes about EnableDynamicSpeedManagement when Flagger management is enabled. Added key: MinReplen, EnableAutoFormatLenManagement, FrontalReelChangeMaxDelayM
18.01.2010	1.19	Added key: FlaggerTimeDelayMs, FormatImpulseLogInterval, ReelChangeIn_Frontal, ReelChangeIn.Rewinder, EnablePredominantLightSetting, AreaLocatorRunLengthMM, FILogSamples, EnableIOInterrupts, EnableDiskSwapping, SwapIfOverMB
17.02.2010	1.20	Added key: SliderSenUpperLim, SliderSenLowerLim, EnableAdvancedFingerprint
26.02.2010	1.21	Added key: EnableDerivativeFingerprint
10.09.2010	1.22	Added key: DefaultScanDirection, ReportPathPDF, GlobalOffsetAverageSamples Added subkey: LOG Added key: Memory, Setup, MachineProtocol,GlobalLocator
14.09.2010	1.23	Added key: EnableExceptionHandling
16.09.2010	1.24	Added key: AMI_configFilePath, AMI_direction, AMI_enable, AMI_markType, AMI_syncOnMark, EnableRewinderMode
24.09.2010	1.25	Added key: FingerprintConsistencyThreshold, GlobalLocatorInterval, GlobalLocatorSamples.
05.10.2010	1.26	Change of default value for key FingerprintConsistencyThreshold
28.10.2010	1.27	Added key: FreeHdSpaceWarningMB, FreeHdSpaceStopMB
25.01.2011	1.28	Added key: EnableViewMonitor, RollMinDistanceM, StructureAngCoeff
09.06.2011	1.29	Added key: RevEncoderOnRevWeb, MaxAggX, EnableMiniFollowFormatpulse, MiniFollowFormatpulseRunL_MM

05.10.2011	1.30	Added key: EasySetHBlocalPort, EasySetHBcheckTokenConflict, EasySetHBport, EnableMedianFilterOnGlobalLocator, EnableEasySetSupport. Deleted all obsolete keys
6.09.2012	1.31	Added key: CleanDefectHistory, EnableHwControlFreeze, HwControlFreezeInput(Pin#), NumberOfAverages, WindowsOverlap,. DD Section: Corsax_RDC, Corsay_RDC, DoctorStreaksWidth, EnableRDC, RDConlyAdditional.

Introduction

The registry keys are located at:

HK_LOCAL_MACHINE\SOFTWARE\BST\G11

Keys

AcquisitionSpeedThreshold

This key sets a speed threshold and if acquisition is stopped and the machine speed is beneath the set value, acquisition isn't started. If set to 0 the feature is disabled.

Default: 35 (m/min)
Range: ≥ 0
Notes: this key is present since version 1.11.10.

AdditionalMonitorQuantizier

This value represents the quantization factor for the additional monitor image.

Default: 32
Range: $1 \leq \text{val} < 255$
Notes: The value should be a multiple of 8.

AMI_configFilePath

This key sets the path to the AMI board configuration file.

Default: C:\G11\G11_OCO_exe\AMI\config\AmiSyncConfig.ini
Range:
Notes:

AMI_direction

Sets the web direction for AMI board configuration.

Default: FORWARD
Range: FORWARD – BACKWARD
Notes:

AMI_enable

Enables AMI board support.

Default: 0 (disabled)
Range: 0 (disabled) or 1 (enabled)
Notes:

AMI_markType

This key sets the mark type used for synchronization.

Default: FREE_MARK
Range: FREE_MARK, GEAR_ONLY,
DEFINED_MARK,
BST_CLASSIC_MARK,
AUTO_DETECT_MARK_PATTERN,
MASCHINE_RESET_WITH_STRETCH_COMPENSATION.

Notes:

AMI_syncOnMark

This parameter sets the AMI board synchronization on register mark.

Default: 0 (disabled)
Range: 0 (disabled) or 1 (enabled)
Notes:

AreaLocatorRunLengthMM

This key sets the maximum run-length in mm for area re-centring. Area centring occurs each time the number of vertical and/or horizontal repeats is >1.

Default: 10 (mm)
Range: >0
Notes:

AutoSetupRepLen

If this value is set to 1, entering in setup step 1, the value of the format length is automatically read out through the countercard and shown in the formatlength text box.

Default: 0
Range: 0 or 1
Notes:

AutomaticFingThrCoeff

This key sets a coefficient that determines the threshold for acceptable relative minimums.

Default: 2
Range: should be between 2 and 3
Notes:

AutomaticFingThrMinDistMM

This key sets the minimum distance between two acceptable function minimums in the computation of the maximum finegerprint runlength.

Default: 40mm
Range:
Notes: the value is expressed in mm (millimeters)

AvoidAcqStartOnSpeedChange

If this key is enabled, automatic acquisition is not started (if stopped) when the speed is changing. The threshold used to determine if speed is changing or not is the same threshold used to suspend defect detection on speed changes and set by the registry key: ControlAccelThreshold.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes: Related key: ControlAccelThreshold. This keys is present since version 1.11.10.

CameraOpenDelay

This key sets the time interval in ms the PCO wait after opening the serial interface to the cameras. If the RTS pin of the serial interface is wired, the cameras perform a reset every time the serial interface is opened. If the reset is performed, the PCO has to wait the reset to be completed before it can ask the camera to load the default setting position.

If the RTS pin of the serial cable is wired, the value of this key should be set to 5000ms. If the RTS pin is not wired and no reset is done by the cameras when the serial interface is opened, the value of this key can be set to 0.

Default: 5000 (ms)
Range: ≥ 0
Note: value is expressed in ms (milliseconds).

CameraSwitchOffDelay

The value is expressed in minutes and sets the time after which the cameras lights are switched off and the cameras are released.

Default: 5

Range: $1 \leq \text{val}$
Notes: value expressed in minutes

CleanDefectHistory

This key enables the reset of Defect History every time the system enters in auto or inspection mode.

Default: 0
Range: 0 or 1
Notes:

ConfigBackupFolder

This key sets the folder on the C partition where the configuration will be backed up by the “Seal Configuration” feature.

Default: C:\G11\config_backup
Range:
Notes: If this directory doesn't exist on, the “Seal Configuration” feature is enabled, else not.

ConfigPath

This key sets the path of the directory where config files are stored.

Default: “.”
Range:
Notes:

DefaultScanDirection

This parameter sets the value of the camera scan direction if bi-phase encoder is used. When a bi-phase encoder is used, the cameras are able to manage web movement in both directions. The Shark software sets the camera parameter to the set value for both web movement directions.

Default: 1
Range: 0 - 1
Notes: This value has effect only if bi-phase encoder is set.

DoctorStreaksVertStep

This key sets the vertical step for the Doctor Streaks algorithm.

Default: 1
Range: >0
Notes:

DynamicSpeedLimit

This key sets the threshold for the switching between the speed management approach. Please, refer to the description of the EnableSynamicSpeedManagement key.

Default: 50
Range: [0,720]
Notes: Refer to EnableDynamicSpeedManagement.

EasySetHBcheckTokenConflict

This parameter states if the token conflict check feature is enabled or not. If it is enabled, the shark checks the status bit related to the token owner sent by easyset in the UDP messages. The value of the status bit is checked against the internal “token owned” status of the Shark. If the result is that both systems claim to own the token, a conflict is signalised by a warning dialog on the GUI.

Default: 1 (enabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

EasySetHBlocalPort

This parameter sets the local server port for the easyset protocol hearth-beat channel.

Default: 33740
Range: 1 – 65535
Notes:

EasySetHBport

This parameter sets the remote server port for the easyste protocol hearth-beat channel.

Default: 49526
Range: 1 – 65535
Notes:

Enable3lightConfig

Enables the possibility to enable all three light sources at a time. If this feature is disabled, it is not possible to switch on back and bright light at the same time.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

EnableAdditionalDefectInfo

This key enables the display of additional defect information in Defect History when a defect is selected. It is possible to choose between two information sets: a smaller set in which only the position in the reel, the crossweb position, the speed and the webshift are displayed, and a second set in which the above mentioned information are reported and additional locator information.

Default: 1 (enabled)
Range: 0 (disabled) – 1 (enabled)
Notes: Related keys: ShowAdditionalLocatorInfo

EnableAdvancedFingerprint

This key enables the advance fingerprint algorithm performed by PCOs during setup and control for image locating.

Using this algorithm, the PCOs slice up the image into regions. A fingerprint is computed for each region and compared to the fingerprints of the other regions. The most reliable fingerprint and its reference region are then chosen to be used during control.

Default: 1 (enabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

EnableAutoFormatLenManagement

The system is able to manage the vertical number of repeats by itself if the web is moving during the first setup step. In this case, the repeat length is defined through the counter card and number of vertical repeats is made out against the minimum repeat length.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

EnableAutomaticFingThreshold

This key manages the automatic fingerprint runlength computation done by the PCOs during the setup procedure. The PCOs try to determine a minimum runlength for the global fingerprint in order to avoid the possibility to run into a wrong location result due to simila subformats.

Default: 1 (enabled)
Range: 0 (disabled) - 1 (enabled)
Notes: Related keys: AutomaticFingThrCoeff, AutomaticFingThrMinDist.

EnableCutterDistortionManagement

This key enables the customization done for DS-Smith. The resolution is managed based on format length (from 440mm up to 1700mm – full resolution, from 1700mm up to 2500mm – half resolution). Also the display of an area affected by the cutter distortion can be configured.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

EnableDerivativeFingerprint

This key enables or disables the feature of derivative fingerprint user during the control procedure.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

EnableDiskSwapping

This key enables the disk swapping feature. During setup, images are swapped to the hard disk in order to save working memory.

Default: 1 (enabled)
Range: 0 (disabled) – 1 (enabled)
Notes: See also key SwapIfOverMB

EnableDoctorStreaksAlg

This flag enables/disables the Doctor Streaks detection algorithm.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes: Related keys: DoctorStreaksVertStep

EnableDynamicSpeedManagement

This key enables the dynamic speed management. The countercard is managed in two ways: direct read out and interrupt triggered. If the speed goes below the value set by the key DynamicSpeedLimit, the management approach changes from interrupt driven to direct read out. If the speed exceeds the limit set by the DynamicSpeedLimit key, the managements approach changes from direct read out to interrupt driven.

Default: 1 (enabled)
Range: 0 (disabled) - 1 (enabled)

Notes: See DynamicSpeedLimit. If the flagger management is enabled, the dynamic speed management is switched off and the CTR05 is always driven in polling mode.

EnableEasysetSupport

This key states if the configuration parameters dialog entities should be displayed by the GUI or not. If this key is set to true, it is possible to set the configuration parameters by the GUI in the “Special functions” dialog. If this key is set to false, it is not possible to set the configuration parameters and the protocol management is disabled.

Default: 0 (disabled)

Range: 0 (disabled) – 1 (enabled)

Notes:

EnableExceptionHandling

This key enables/disables exception handling in case of an internal software crash. If the key is enabled, in case of an internal crash, the ONCO tries to handle the exception writing a crash log and restarting the application. Not all crashes are traceable, therefore it is possible to disable this feature by setting this key to 0. If exception handling is disabled, it is the operating system that manages raising exception coming from the ONCO process. Therefore, it should be possible to find some additional information about the crash in the Dr.Watson error log. In this case it should be possible to trace the point within the software code where the crash occurred using the map file.

Default: 1 (enabled)

Range: 0 (disabled) - 1 (enabled)

Notes:

EnableFormatImpulseDrawer

This feature is for debug purpose only. If the key is set to 1, the OCO generates one image per PCO in which the position of the format impulse within the acquired image is reported against the position along the web.

Default: 0 (disabled)

Range: 0 (disabled) – 1 (enabled)

Notes: Related keys: FormatImpulseDrawerNumSamples,
FormatImpulseDrawerOnlyErrors

EnableHwControlFreeze

This key allows the customers to suspend the DD with an external input signal.

Default: 0

Range: 0 or 1

Notes:

EnableIOInterrupts

This key sets the support for IO interrupts. If this feature is disabled, only polling IO is performed.

Default: 1 (enabled)

Range: 0 (disabled) – 1 (enabled)

Notes:

EnableIOInputFilter

This key enables a software filter applied on the inputs read by the IO counter card. The filter excludes the not connected inputs trying to avoid false input status due to disturbs.

Default: 1 (enabled)

Range: 0 (disabled) – 1 (enabled)

Notes:

EnableMedianFilterOnGlobalLocator

If this parameter is set to true, the PCOs perform a median algorithm on the samples of the global locator offset values. Each time an offset is computed, it is inserted into an array of 5 samples. This array is sorted and the median value (sample #3) is extracted and used as global locator offset value.

Default: 1 (enabled)

Range: 0 (disabled) – 1 (enabled)

Notes:

EnableMiniFollowFormatpulse

This key enables/disables the MiniFollowFormatImpulse feature.

If this feature is active, the format impulse could move from one image to the next, limited to the set runlength within the global locator runlength set in defect detection settings.

Default: 0 (disabled)

Range: 0 (disabled) – 1 (enabled)

Notes:

EnablePredominantLightSetting

If this key is set to 1 light settings are not chosen any more based on light combination but based on which is the maximum current value. i.e. if the maximum current value is set for the dark field modules, settings 10 is chosen even if other modules are switch on too.

Default: 0 (disabled)

Range: 0 (disabled) – 1 (enabled)

Notes:

EnableProductionDeclaration

Enables/Disables production declaration feature.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes: present since version 1.12.1

EnableRewinderMode

Used to configure the GUI for use with the AMI Board on rewinder.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes: **for future use**

EnableTotaleFingerprint

If this parameter is set the OCO is able to request a fingerprint over the entire image (format length) to the PCOs if the misalignment between the PCO gets to high.

Default: 1 (enabled)
Range: 0 (disabled) – 1 (enabled)
Notes: Reactivated after the modifications for the RKW systems.

EnableViewMonitor

This key enables the view monitor support (VCO).

Default: 1 (enabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

FILogSamples

This key sets the number of subsequent samples to record for the Format Impulse Logger feature.

Default: 10
Range: >0
Notes:

FingerprintConsistencyThreshold

This key sets the threshold for fingerprint consistency. During setup the resulting vertical fingerprint of the golden image is analysed. If enough information is available for a reliable correlation computation, the fingerprint is considered as consistent.

If the fingerprint variability (normalized to 255) is greater than the set threshold, the fingerprint is considered as consistent, else as not consistent.

Default: 100
Range: >=0
Notes:

FlaggerTimeDelayMS

This parameter sets a value in ms which anticipates the flagger signal of a length depending of the machine speed. The parameter is thought to compensate the signal management delay.

Default: 0 (ms)
Range: 0 feature disabled, >0
Notes:

FormatImpulseDrawerNumSamples

This key has effect only if the related key *EnableFormatImpulseDrawer* is active. The value sets the number of samples recorded on the graph of the format impulse position within the acquired images of the PCOs.

Default: 900
Range: >1
Notes: Related keys: *EnableFormatImpulseDrawer*, *FormatImpulseDrawerOnlyErrors*

FormatImpulseLogInterval

This key enables the Format impulse logger feature. If the value is >0, a file is written on the hard disk where information on the format impulse and the format length are recorded. Entries in the file are written every n samples (formats) where n is the value of the key.

Default: 0
Range: >0
Notes:

FormatImpulseDrawerOnlyErrors

This key has effect only if the related key *EnableFormatImpulseDrawer* is active. If this key is active, only samples which defect detection result is defective will be recorded within the graph of the position of the format impulses within the acquired images by the PCOs.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes: Related keys: *EnableFormatImpulseDrawer*, *FormatImpulseDrawerNumSamples*

FreeHdSpaceStopMB

Each time a new setup procedure is started, a check of the available disk space is performed. If the available disk space is less than the set value a warning is displayed and the setup procedure is aborted.

Default: 500 (MB)

Range: ≥ 0

Notes:

FreeHdSpaceWarningMB

Each time a new setup procedure is started, a check of the available disk space is performed. If the available disk space is less than the set value a warning is displayed but it is possible to carry out the setup procedure..

Default: 3000 (MB)

Range: ≥ 0

Notes:

FrontalReelChangeMaxDelayM

This key indicates the maximum duration of a frontal reel change control suspension expressed in running meters. If, due to disturb or other reason, the control is not enabled again at the end of a frontal reel change, after this maximum delay value, the control is reactivated.

Default: 100 (m)

Range: >0

Notes:

GlobalOffsetAverageSamples

This key sets the number of samples used by the global locator algorithm to compute the most reliable global web direction locator offset coming from PCOs.

Default: 15 (samples)

Range: >0

Notes:

HwControlFreezeInput(Pin#)

This key sets the input pin number to provide the signal for the Hw DD suspension

Default: 6

Range: 0 – 7 (only integer)

Notes: Related keys: EnableHwControlFreeze

InputSignalDurationMS_1

This key sets the minimal signal duration for the rewinder reel change signal in milliseconds (ms). If the duration of the signal is beneath the set value, the signal is not handled as a reel change signal but sorted out as a disturb.

Default: 10 ms

Range: >0

Notes:

InputSignalDurationMS_2

This key sets the minimal signal duration for the unwinder reel change signal in milliseconds (ms). If the duration of the signal is beneath the set value, the signal is not handled as a reel change signal but sorted out as a disturb.

Default: 10 ms

Range: >0

Notes:

LiveMonitorDx

This keys sets the width of the LiveMonitor Image. This image is based on the image which is displayed during the AutoMode.

Default: 1024

Range: 640 <

Notes: As higher this value is, as higher is the data load to transfer over the network. The value should not exceed 1024.

LiveMonitoryDy

This keys sets the height of the LiveMonitor Image. This image is based on the image which is displayed during the AutoMode.

Default: 768

Range: 480 <

Notes: As higher this value is, as higher is the data load to transfer over the network. The value should not exceed 768.

LogDebugLevel

This key sets the debug level when the Debug entry is activated for the log feature. The debug entries are divided into 4 levels. Level 1 is the lowest level and less entries are written. Level 4 is the highest level all reported debug entries are written.

Default: 1

Range: 1 up to 4
Notes:

LogPath

This key contains the path of the directory where the files for the log feature are stored.

Default: “.”
Range:
Notes:

MaxAggX

This key sets the maximum locator runlength in cross-web direction.

Default: 33 (px)
Range: >=0
Notes:

MaxErrors

This value indicates the maximum number of defects which can be managed by the system. When this number is reached, the system stops controlling.

Default:
Range: 0 <
Notes:

MaxErrorsPerLane

This value indicates the maximum number of defects per lane which can be managed by the system. When this number is reached, the system stops saving defect images on the hard disk.

Default:
Range: 0 <
Notes:

MaxErrorsPerReel

This value indicates the maximum number of defects per reel which can be managed by the system. When this number is reached, the system stops saving defect images on the hard disk. When a reel change occurs, the counter is set to zero and the recording of defect images is enabled again.

Default:
Range: 0 <
Notes:

MaxPcoDataRate

This key sets the maximum data rate (video stream) that PCOs can manage. The value is expressed in MB/s.

Default: 110 (MB/s)
Range: >0
Notes:

MiniFollowFormatpulseRunL_MM

This key sets the runlength for the MiniFollow format impulse feature.

Default: 400 (mm)
Range: >0
Notes:

MinRepLen

This parameter indicates the minimum manageable repeat length. The value of this parameter is used to prompt the operator to modify the vertical number of repeats or the repeat length if the overall image size is not suitable to carry out defect detection.

Default: 0 (mm)
Range: >=0
Notes:

NumberOfAverages

This key set the values of the number of averages directly into the camera

Default: 32
Range: 1 – 64 (pow of 2)
Notes:

PriorityClass

This key sets the priority class for the OCO process. A value of 4 corresponds to normal priority. A value of 1 corresponds to a RealTime Process.

Default: 4
Range: $0 < n < 5$
Notes:

PX_to_cut_per_side

At the beginning and the end of the camera sensor, distortions can appear. Setting this value it is possible to cut a certain number of pixels from the beginning and the end of the acquisition line.

Default: 6
Range: $0 < \text{val} < 50$
Notes:

ReelChangeIn_Frontal

This key sets the input pin on the synch-board connection plug where the frontal reel change signal is connected to. The default value is pin 4 corresponding to DIN1 on the I/O board considering pin 1 to GND and 2 to GND_ext.

Default: 4
Range: $2 < n < 11$
Notes:

ReelChangeIn_Rewinder

This key sets the input pin on the synch-board connection plug where the rewinder reel change signal is connected to. The default value is pin 3 corresponding to DIN0 on the I/O board considering pin 1 to GND and 2 to GND_ext.

Default: 3
Range: $2 < n < 11$
Notes:

ReportFilePattern

Sets the report file pattern. It is possible to set the report file pattern using 4 data place-holders.

- \$name£: job name
- \$number£: job number
- \$date£: report start date (format: yyyyymmdd)
- \$time£: report start time (format: hhmmss)

it is important that a place-holder always starts with a \$ sign and ends with a £ sign.
It is possible to add static string like the "Report_" string in the default value for this key.

Default: *"Report_\$name£_\$number£_\$date£_\$time£"*
Range:
Notes: present since version 1.12.1

ReportPath

This key contains the path of the directory containing the report feature files.

Default: ".\"

Range:

Notes:

ReportPathPDF

This key sets the path for the PDF report files generated by the BST-PDFReporter.

Default: "D:\Report"

Range:

Notes:

RevEncoderOnRevWeb

This key states if the direction of the encoder changes with the direction of the web. In some installations this doesn't happen because even if the direction of the web related to the cameras changes, the web on the encoder runs always in the same direction. This usually happens when the encoder is mounted very far away from the cameras.

Default: 1 (yes)

Range: 0 (no) – 1 (yes)

Notes: if 1 the meaning is that the encoder runs always in the same direction of the web. Therefore if the web direction is inverted, even the encoder direction is inverted.

RollMinDistanceM

This key sets the value for the length a roll must have not to be sorted out from the report. If the roll length when a rewinder reel change occurs is smaller than the set value, the roll report is sorted out from the overall report.

Default: 0 (value in meter)

Range: >0

Notes:

SetupPath

This key contains the path of the directory containing the job files.

Default: ".\"

Range:

Notes:

ShowAdditionalLocatorInfo

This key activates the display of additional locator information when a defect is selected in the Defect History. This setting is active only if the related feature *EnableAdditionalDefectInfo* is enabled.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes: Related keys: EnableAdditionalDefectInfo

ShowRollMetersInDH

This key activates the reel meter counter display in Defect History. Instead of the overall meter counter, the reel running meter counter is displayed on the left side of the Defect History chart.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

SliderSenLowerLim

The value of this key limits the control sensitivity slider lower position to the set value.

Default: -10
Range: $-10 \leq \text{val} \leq 10$
Notes:

SliderSenUpperLim

The value of this key limits the control sensitivity slider upper position to the set value.

Default: 10
Range: $-10 \leq \text{val} \leq 10$
Notes:

SwapIfOverMB

This key sets the swap threshold in MB. If the overall memory usage of the process gets over the set threshold, images are swapped on the hard drive in order to save memory.

Default: 650 (MB)
Range: ≥ 0
Notes: Related to EnableDiskSwapping

WindowsOverlap

This key controls the percentage of overlapping between windows.

Default: 33
Range: 33 – 50 (integer)
Notes:

WorkPath

This key contains the path of the directory containing the working files.

Default: ".\"
Range:
Notes:

DD Sub keys

The keys and values contained in this sub key are updated each time the control is stopped and started again.

ControlAccelThreshold

If an acceleration or deceleration greater than the set value occurs, the control gets suspended. When the speed then stabilizes, the control gets enabled again. The value is expressed in

$$\left(\frac{m}{min * s} \right) .$$

Default: 0 (feature is disabled)
Range: >0
Notes: the feature is disabled if the value is set to 0.

ControlSpeedThreshold

If the machine speed is lower than the value set by this key, defect detection is frozen and reactivated only when the machine speed becomes higher than the set value. The value is expressed in $\left(\frac{m}{min} \right) .$

Default: 0
Range: >0
Notes: If the value is set to 0 (zero) this feature is disabled and no speed threshold is managed.

CorsaX

This parameter sets the locator range in crossweb direction.

Default: 1
Range: 1 <
Notes: As higher the value of the parameter is, as longer the locator algorithm will take to complete.

CorsaX_RDC

This key setes the runlength among the crossweb direction for RDC algorithm

Default: 2
Range: 0 – 5 (integer)
Notes: EnableRDC, RDConlyAdditional

CorsaY

This parameter sets the locator range in web direction.

Default: 1

Range: 1 <

Notes: As higher the value of the parameter is, as longer the locator algorithm will take to complete.

CorsaY_RDC

This key setes the runlength among the web direction for RDC algorithm

Default: 2

Range: 0 – 5 (integer)

Notes: EnableRDC, RDConlyAdditional

DoctorStreaksWidth

This key sets the width of the window (crossweb direction) in which we look for a streaks

Default: 1.5 mm

Range: 1 – 3 mm

Notes:

EdgeMatrix

This key sets the coefficients of the filter matrix of the EdgeEnhancement feature.

0	0	A31	0	0
0	A22	A32	A42	0
A13	A23	A33	A43	A53
0	A24	A34	A44	0
0	0	A35	0	0

The coefficients are reported in a comma separated list as follows:

A13,A22,A23,A24,A31,A32,A33,A34,A35,A42,A43,A44,A53,DIV

The DIV coefficient is the final normalization divisor.

Default: -1,0,-1,0,-1,-1,13,-1,-1,0,-1,0,-1,6

Range:

Notes:

EnableRDC

This key enables the RDC algorithm for compensation of misregistration errors.

Default: 0
Range: 0 or 1
Notes: CorsaX_RDC, CorsaY_RDC, RDOnlyAdditional

FingerprintReliabilityCoeff

This key sets the value for the reliability coefficient for the global fingerprint algorithm in both directions.

When the control starts, a minimum reliability coefficient is computed after three non defective formats. This minimum reliability coefficient is multiplied by the value set by this key and considered as absolute reliability coefficient for the fingerprint algorithm

Default: 2.5
Range: 0-25.5
Notes:

FirstRegRunLength

This key sets the run length for the first region of each lane for the local locator algorithm.

Default: 10
Range: 0-255 (BYTE)
Notes: This key was added also in version 1.3.16.2.

IncrementoCorsa

Fine Locator run lengths are incremented by a factor depending on the set value and the distance between the current cluster and the last cluster already located.

Default: 0
Range: $0 \leq v \leq 2$
Notes:

RDOnlyAdditional

This key enables the possibility to run RDC algorithm only if the standard algorithm for structure gives error at first.

Default: 0

Range: 0 or 1
Notes: EnableRDC

SogliaAffidabilità

Default: 0.2
Range:
Notes:

StructureAngCoeff

Key that set the value for the angular coefficient needed in the formula of tolerance $\leftrightarrow$ square mm conversion (structure).

Default: 0.25
Range:
Notes:

LOG Subkeys

The LOG subkeys are registry keys that enable/disable dedicated log features for different entry categories.

GlobalLocator

This parameter enables log entries related to the global locator algorithm. If the provided result by the PCOs is not reliable, an entry is written into the activity log file.

Default: 1 (enabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

GlobalLocatorInterval

This key sets the interval in format numbers for global locator result recording (logging). Each (value) results, the global locator offsets coming from the PCOs are logged into the activity log.

Default: 100 (results)
Range: >=0
Notes:

GlobalLocatorSamples

This key sets how many consequent global locator results have to be recorded once the GlobalLocatorInterval has expired and offset recording had been enabled.

Default: 3 (results)
Range: >0
Notes:

MachineProtocol

This parameter enables log entries related to the EasySet protocol. Each time the Shark software interacts with the EasySet system, actions are traced in the activity log file.

Default: 1 (enabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

Memory

This parameter enables memory entry tracing. Every time a memory allocation is made which increases the process working set, the entry is traced in the activity log file.

Default: 0 (disabled)
Range: 0 (disabled) – 1 (enabled)
Notes:

Setup

This parameters enables dedicated setup procedure tracing. The setup procedure performed by the ONCO process is traced in a dedicated file. The file name is made up by a time stamp. A file is written for each setup procedure.

Default: 1 (enabled)
Range: 0 (disabled) – 1 (enabled)
Notes: