

## TubeScan 7.2 Release Report

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### 1 7.2.42

#### Fixes:

- TubeScan Remote Control: Warning coming also, when it was disabled
- Handle I2C transfer errors
- Fixed new line issue in barcode and OCR csv result files
- Exception on click/tab on a textbox (normally a keypad or numpad would pop up)
- Removed two checkboxes from OCR zone details and settings panel
- Fixed incorrect assignment of inspection zones, if sub-sampling is enabled
- Waste zones are correctly drawn now, when roll map lane arrangement is set to bottom up
- Properly skip waste areas that were cut out (waste rewinder, QLinkRewinder)

#### Improvements

- Added missing Spanish translations for QLinkPress

### 2 7.2.41

#### Fixes:

- Defects now are correctly shown in strobe window via GraphicalDefectQueue with subsampling enabled
- Prevent inspection of 'black camera images' when TubeScan detects that the waste rewinder is active (only QLink rewinder) or the machine is running backwards (only pharma mode)
- TubeScan shows all defective areas also in QLink rewinder/editor now

### 3 7.2.40

#### Fixes:

- Fine registration might not work, if reference image is shifted and the registration moved to an area not visible before (the problem was introduced in 7.2.31)
- Incorrect orientation in measurement result after selecting a defect on the roll map
- Averaging settings hidden, when coarse inspection is enabled
- Fix PDF validation for PDFs with multiple pages

- Fixed black image in calibration tool when EV camera is attached to PC
- QLink Editor/Viewer/Rewinder now shows defect sizes correctly
- Debouncing for DigitalIO module

#### Improvements:

- Further major improvements on barcode and OCR handling and user interface
- Barcode zone settings UI now shows detected value and detailed information
- Barcode zone settings restructured; Added a window for more detailed information about the current selected barcode
- Option to show TubeScan in movable and resizable windows
- PDF reports now contain length information
- Movable windows for all TubeScan windows

## 4 7.2.39

#### Fixes:

- Memory leak after roll reset
- Black EagleView image after start

## 5 7.2.38

#### Fixes:

- Add uninspected repeat for repeats, which have been skipped by registration
- Added white balance for mv stripe cameras

## 6 7.2.37

#### Improvements:

- EagleView with Matrix Vision stripe cameras
- Inspection not stopped after settings change
- Rework lane dialog
- Rectangles around defective bar codes in live view

#### Fixes:

- Inspection settings not taken into account for inspection after settings change.
- Fixed, that font size score not updated after changing font size manually in OCR module
- Fixed, that check box 'As Default' in number recognition is unresponsive

- Number of defective repeats is shown correctly now in VDP and Distance Monitoring results after new roll / counter reset (also defect history is reset from now on)
- Removed options to save snapshot recordings as 'Tiff' or 'Png' images from the checkbox under the snapshot recording tap in the settings window
- Lanes not updated without zone processing
- Inspection active independent from alarm set
- Qlink Press/Rewinder automatic defect zoom
- Fixed, that color saturation might not have been applied correctly to mv cameras

## 7 7.2.36

### Fixes:

- After a job was loaded, TubeScan did not always show the live image when the machine starts again
- Inspection used not updated repeat number (one too low) in very rare cases

## 8 7.2.35

### Improvements

- Usability of OCR/OBR zone editor

### Fixes

- Fixed, that maximum number of zones could not be changed for barcode, OCR and deltaE zones
- Fix viewing of defects from defect queue, when subsampling is enabled
- Fix teaching for enabled subsampling

## 9 7.2.34

### Fixes

- Defects were not displayed when they appear but delayed to the target position even without placement license
- Web-/Lane-Offset did not work when image is rotated or mirrored

## 10 7.2.33

### Fixes

- Defect counters were not updated and signals not sent when errors appear on specific lanes (only without changing number of lanes previously)

## 11 7.2.32

### Fixes

- Fixed, that the front light LEDs might not flash after resuming the camera; in case the LEDs are not flashing directly after the start of TubeScan, the problem should disappear after stopping and resuming the stripe cameras once.
- Fixed, that OCR detection possibly did not work correctly, if reference image was rotated
- TubeSync client crash when changing repeat height before camera was started

### Improvements

- Possibility to move Web-/Lane-Offset instead of lanes

## 12 7.2.31

### Improvements:

- Allow to enable or disable individual grading letters for the barcode module in *BarcodeSystemSettings.xml*
- Extended functionality of the auto font size detection in the OCR module
- Alphanumeric VDP evaluation

### Fixes

- Final stop doesn't work when both "SlowDownSpeed" and "SlowDownOvershoot" are set to zero.
- Lost repeat in rollmap when moving reference image and taking new reference image
- Fix initialization of alarm signal when used together with defect control
- Fixed, that barcode and OCR zones not masked out correctly, if subsampling is enabled
- Uncatched Exceptions might be reported multiple times to the user.
- DefectQueue shows wrong error after machine stopped

## 13 7.2.30

### Fixes

- Fixed, that the zoom buttons did not work in the EagleView window
- Fonts, added to *UserVisibleFonts* in *NumberRecognitionSystemSettings.xml*, now appear in the font combo box in the zone settings window of a number recognition zone
- SlowDown/FinalStop signals were not applied correctly
- Placement logic did not stop all defects using SlowDown/FinalStop
- Correct final stop behaviour, when multiple signals have been over run.

## 14 7.2.29

### Fixes

- TubeScan does not automatically stop after reaching configured repeat count or good count
- QLinkRewinder finishes current production roll even if it is still in production by the press if NYCAMOrders is linked to a QLinkPress location

## 15 7.2.28

### Fixes:

- Empty roll information fields in QLink press/rewinder

### Improvements:

- New option for TubeScan synchronisation in defect count window
- New option to disable error messages for synchronisation (but only for the current session)

## 16 7.2.27

### Improvements:

- Included Portuguese translations
- Alarm length setting gets disabled, when defect control is enabled.
- Dynamically configurable snapshot recording
- Backup old settings before updating to new revision
- Only graphical defect queue with pharma mode

### Fixes:

- Prevent moving lanes with auto matrix detection
- Report can now be deleted after viewing it
- Fix tiff image snapshot recording

- Moving reference image when automatrix is enabled
- Fixed possible “The Application object is being shut down.” exception

## 17 7.2.26

### Improvements:

- TubeScan master slave communication infrastructure

## 18 7.2.25

### Improvements:

- Data validation over csv database for variable data feature

### Fixes:

- Fixed not working coarse registration
- Fixed that normal inspection was applied in the area of a new barcode or number recognition zone

## 19 7.2.24

### Improvements:

- Allow to ignore vertical and / or horizontal coarse registration offsets
- Added parameter to UISettings.xml to allow to change Coarse Registration suppression and limitation parameters in the settings dialog (disabled by default)

### Fixes:

- Machine not stopping in rewinder control if going too fast to stop at target position
- Speed Strobe warning not coming for Matrix Vision cameras
- EnvironmentSettings not saved
- Error MessageBox if no license/no camera or wrong camera
- Skipping defects in pharma mode was not possible
- QLink Rewinder exception “COMException [...] outstanding read or write lock”
- Freezed count buttons after closing settings dialog in Qlink Press/Archiver while in production

## 20 7.2.23

### Improvements:

- Text inspection default settings

### Fixes:

- Fixed, that histogram zone possibly displayed in full repeat height, although it is limited
- The maximum height for the limited histogram zone can no longer exceed the repeat height
- Exception when loading job with averaging enabled

## 21 7.2.22

### Improvements

- Limit vertical search area for coarse registration

### Fixes:

- Fixed possible exception in text inspection after inspection start (occurred e.g. after repeat length has been changed)

## 22 7.2.21

### Improvements

- Move graphical defect queue to screen if it is located not on screen

### Fixes:

- Fixed that rewinder did not stop properly in *PharmaMode* on rewinder control
- Fixed that measurement results were not updated anymore after machine stop (only for *DefectQueue* enabled)

## 23 7.2.20

### Improvements

- Deactivate splash evaluation by setting splash length to 0

### Fixes:

- Fix exception message when skipping through defect queue
- Handle exceptions when teaching from defect queue
- Fix exception when displaying multiple repeats in live view
- Fix zone data not applied

- Fix exception during inspection
- Fix fine registration on reference image setup

## 24 7.2.19

### Fixes:

- Update from 6.2
- Camera errors now are properly reset after job load
- Library loader error when MIL is not installed
- Exception when displaying more than one repeat in live view

### Improvements:

- User now can filter also by roll id and resort QLink Editor/Rewinder roll list
- Jobs now get loaded synchronously
- “Fast AutoWaste”: inspect only every second repeat in auto waste mode if all lanes are bad
- “Fast WebWaste”: inspect only every second repeat in auto waste mode if at least one lane is bad

## 25 Revision 7.2.18

### Improvements:

- Additional logfile for signals
- BDE interface now also logs the containing data
- Load pdf for comparison via barcode scanner with wildcards
- Added sub-sampling processing for faster inspection
- Speed up of coarse registration
- Log TubeScan serial number and TeamViewer ID in log file

### Fixes:

- Update of MeasurementSettings from 5.6
- Chain button change not applied in text inspection settings window
- Defect gets shown on wrong reference image when viewed by rollmap (offset in web direction)
- Bad defect image after machine/camera stop
- Correct TubeScan serial number in QLink roll ticket

## 26 Revision 7.2.17

### Improvements:

- The configuration directory and job name were added to the settings dialog title
- Settings window is now showing the corresponding wire colors for the output signal buttons on placement tab
- Inspection window does not show *PharmaMode* option if not licensed
- Rewinder does no longer show manually skipped defect to be placed

### Fixes:

- Crash in zone editor when trying to remove all text inspection zones
- Added ROI size check for text inspection zone

## 27 Revision 7.2.16

### Improvements:

- Added new parameter *QLinkDefectOffsetRepeats* to placement settings;  
This allows to shift the actual placement location by positive or negative repeats (e.g. -3.5 to prepone the location)

## 28 Revision 7.2.15

### Improvements:

- Message when both fine and coarse inspection are off
- Font size auto detection for OCR

### Fixes:

- Defect images are shown with horizontal offset when selected on rollmap
- Camera error indication is not updating correctly for multi camera systems

## 29 Revision 7.2.14

### Improvements:

- Skip defects in graphical queue

### Fixed:

- Locked buffer exception in QLink Rewinder
- QLink signal offset (stop position)
- Exception when scan mode is changed

### 30 Revision 7.2.13

Fixed:

- Exception message appears, when pressing remove button without an existing zone

Improvements:

- Improvements on fine registration, which includes adding SAD and SSD algorithms
- Added Text Inspection zones to improve inspection accuracy and reducing false defects

### 31 Revision 7.2.12

Fixed:

- NYCAMLog Archiver

Improvements:

- Update Apitron XML-Engine and NLog

### 32 Revision 7.2.11

Fixed:

- CalibrationTool crash at start up

Improvements:

- REFLECTIVE\_BRIGHTFIELD scan mode is always available now, for Matrix Vision cameras
- Use of separate camera configuration file for scan mode REFLECTIVE\_BRIGHTFIELD is possible, e.g. for separate flat field correction

### 33 Revision 7.2.10

Fixed:

- Slider in zone editor could be initialized with wrong value, when window was opened

Improvements:

- Allow to adjust digital gain per Matrix Vision camera and scan mode
- Allow to apply stripe offset per line instead of every fourth line for Matrix Vision cameras

## 34 Revision 7.2.9

Fixed:

- QLinkViewer does not show archived rolls
- Crash when stepping through defects (arrow keys) or teaching defects too fast via GraphicalDefectQueue

Improvements:

- Signal output over SlowDown pin when signal queue gets cleared (clear defect queue, deactivate inspection, camera start/stop)

## 35 Revision 7.2.8

Fixed:

- Exception when selecting a QLink defect from defect queue
- Production rolls get not always deleted after starting a new one
- Deadlock when changing rotation or mirroring of camera

## 36 Revision 7.2.7

- Fix not inspected areas for rotated images

## 37 Revision 7.2.6

Fixes:

- Fix resolution field in calibration tool
- Fix duplicated rolls in QLink Editor

Improvements:

- Roll status visible in roll dialog
- Possible to enter unlimited stripe height for sample tests

## 38 Revision 7.2.5

Improvements:

- Show rollmap bookmarks for camera errors
- Disable signal logging by default
- One log file per start
- Show warning when signals in placement dialog are tested with camera enabled

## Fixes:

- Disable experimental asynchronous live view
- Don't log warning when invalid license files are existing beside a valid one
- Fix OutOfMemory Exception when drawing averaging overlay
- Remove wrong connect roll warning from log
- QLinkEditor rollmap does not get automatically updated
- QLink roll information input window does not switch controls for barcode or text input methods
- QLinkRewinder does not invert defects in rolls with just one lane

## Calibration Tool:

- Update Camera resolution on focus change to prevent issue with resolutions starting with 0.

### 39 Revision 7.2.4

When "AdvancedPermissions" from UISettings.xml is 'true' the Operator has to enter a password to be able to change inspection settings. The password is the same as to open the settings dialog (default "N27T").

### 40 Revision 7.2.3

## Fixes:

- Crash when user tries to teach a defect from graphical defect queue window

### 41 Revision 7.2.2

## Fixes:

- handle Matrix Vision DMR\_WAIT\_ABANDONED error
- fix Matrix Vision Buffer Unlocking after Timeout

## Improvements:

- allow stretching in PDF Calibration Validation

### 42 Revision 7.2.1

## Fixes:

- Fix rotation in pdf comparison

## 43 Revision 7.2.0

Initial Version

