
Intellect 1.5.1 Release Notes

Updated- June 24, 2008

The following list contains the most important additions/fixes for the intellect 1.5.1 software. If you find additional issues, please report them to: asp.support@cognex.com

Changes from Intellect 1.5.0 to Intellect 1.5.1

- System I/O plot shows correct strobe duration.
- Defect Detection image markings are contained in the inspection region. Defect Detection Pass conditions are preserved after an Undo operation.
- Digital relearn of FFD has a memory allocation fix. Undo and Redo features work correctly with FFD.
- First image is corrected to avoid dark bands.
- Fiducial tool shows correct angle.
- Feature count tool can count a feature at the beginning of an arc sweep.
- Blob angle markings and calculations are corrected.
- Retained image number is corrected.

Known issue: To use the INI settings in Windows Vista, run intellect as Administrator and turn User Account Control (UAC) off.

Changes from Intellect 1.4 to Intellect 1.5

- Support for ProfiNET has been added to the DVT 515, 535, 545 and 550 vision sensors.
- A filmstrip window has been added to the user interface.
- Support for CON-DVT-IEO Ethernet I/O device and CON-DVT-BRK breakout board has been added.
- This version of intellect is compatible with Windows Vista. A new version of Vista compatible SmartLogger 1.1.0 has already been released.
- Intellect 1.5 can automatically link tools to the last selected positioning tool.
- Grid Calibration now detects light dots on dark backgrounds.
- This version of intellect has a speed boost on saving large system files to PC.

Changes from Intellect 1.3 to Intellect 1.4

- Addition of Flexible Flaw Detection (FFD) tool. This tool combines flaw detection with Object Locate and provides flex capabilities. Flex allows you to accommodate differences in parts that are normal and are not actually flaws. FFD is available in 535, 545, 535C, 545C, and 55x series cameras.
- Addition of Fiducial Tool with edge width capability. The fiducial tool is a faster edge positioning tool for use with clean images.
- Performance enhancements to line tool

- Addition of Non-linear Calibration to the Line Scan sensor.
- Addition of minimum and maximum radius calculations to the Circle Fit Tools.
- Measurement Tools: Measure with Points and Lines—The following changes have been made:
 - Angle marking includes an arc drawn from the solid starting line to the dotted ending line.
 - The point-to-point, line-to-point, and point-to-line distance options can be used for position referencing by other tools. The output is updated to include orientation. (Note that line-to-line distance cannot be referenced for position.)
 - The Pass/Fail page for distance measurement has the option to set limits based on minimum and maximum X distance and minimum and maximum Y distance.
- Addition of two new color sensors – 535C and 545C.

Changes from Intellect 1.2 to Intellect 1.3

- Addition of Replicator tool
- Addition of continuous Web Inspection for Line Scan
- Addition of Drag and Drop Support for images, system files, and product files
- Addition of training of Vision Tools from Video Display Window
- Addition of Factory Version Checking in firmware and introduction of 5x5 cameras.
- Addition of DHCP Server support
- Addition of Stretch Filter with configurable upper and lower limits
- Availability of Tool Referencing Diagram from System Explorer Window
- Addition of Pass and Fail markers in Tool Referencing Diagram and in Result Table
- Description of vision sensor types in Emulators Folder in Network Explorer Window
- Performance speed improvements to Object Locate, Circle Fit Positioning and Measurement Vision Tools
- Ability to specify placeholder characters in Trainable OCR Vision Tool
- Ability to Search in Trainable OCR Vision Tool

Changes from Intellect 1.1 to Intellect 1.2

- Composite sensor shapes
- Blob identification tool
- Color identification tool
- New Trainable Font OCR SoftSensor

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- Label Inspection SoftSensor
 - Color based pattern find/count (along a line)
 - Dynamic Robotic Drivers
 - SoftSensor Layer Functionality
 - Undo command for Layers and ID tools
 - Scrolling of image with the “hand” tool
 - Scrolling an image by pressing a mouse wheel and holding it
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Changes from Intellect 1.0 to Intellect 1.1

- Addition of Application Specific SoftSensor Group
- OCR Improvements
- Fixed Fonts and loadable Global Fonts
- Feature Counting added to Count along Line SoftSensor
- DataMatrix Code Reading Additions
- Support for Outlined codes
- Better reading of large codes
- PDF Barcode Grading Addition
- Position in Area SoftSensor Object Locate algorithm improved
- Translation option for better performance
- Improved matching
- Faster operation
- Filter SoftSensor improvements
- Improve filter organization
- Addition of Histogram equalization filter
- Addition of image inversion filter for flipping horizontally and vertically
- Morphology options added to Blob Filter
- Measurement Scaling added to SoftSensors
- Support for multiple scales and dynamic scaling
- Statistics SoftSensor improvement
- Added ability to accumulate valid data from a failing SoftSensor
- User Interface Improvements
- Properties Window enhancements
- Support for tree structure
- Popup support for long data fields
- Support for repositioning off screen SoftSensors
- Added ability to select different SoftSensor shapes from Toolbox
- Improved Window Docking of all windows except Sampled Image Display can be docked.
- Added ability to save images in JPG, PNG, TIFF, and GIF formats for image recording
- Option to restore User Interface windows and toolbars to their default location