

**3.1 Software**  
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Enclosed is a CD with the latest **INTELLISPEC™** software, Version 3.1. A list of features and improvements introduced in this version is included in this memo, and upgrade installation instructions are attached.

Upgrade installation instructions are also in the README.TXT file on the CD.

If you have any questions or need assistance, please do not hesitate to contact our Customer Service Department at (440) 498-2000.

Best regards,

A handwritten signature in black ink that reads 'Fritz Awig'.

Fritz Awig  
Vice President, Customer Support Engineering  
Pressco Technology Inc.

## Intellispec Version 3.1 Software

Category	Feature	Description
Algorithm Improvement	Blob Inspection	<p>Corrects and improves connectivity and speed performance</p> <p><b>Benefit:</b> Improves the ability of the system to pass parts with one defect and fail parts with multiple defects</p>
Algorithm Improvement	Circle Inspection	<p>Adds radial analysis on circle inspection</p> <p><b>Benefit:</b> Reduces false rejects from draw marks</p>
Algorithm Improvement	Improved Detection on Non-round Parts *	<p>Improved edge detection on non-round parts (including X-Y registration improvement)</p> <p><b>Benefit:</b> Ability to draw regions of interest close to boundaries and improve registration on non-round parts</p>
Algorithm Improvement	Radial Line Integration Enhancements	<p>Concentric regions of interest            Start/stop angle            Orientation            Segmented regions of interest            Clipping</p> <p><b>Benefit:</b> Simplifies setup; ability to “ignore” weld seam on 3 piece cans; ability to orient on a feature; improved defect detection and reduction in false rejects; improved process information</p>
New Algorithm	Harmonic Inspection *	<p>New algorithm</p> <p><b>Benefit:</b> Improved inspection on parts with radially symmetric features (closures, crowns, etc)</p>
New Algorithm	Linear Line Integration *	<p>Adds radial line type inspection to polygon regions of interest</p> <p><b>Benefit:</b> Improved inspection capability</p>
New Algorithm	Pattern Learn Algorithm	<p>New inspection algorithm that “maps” gray scale values for each pixel in a circular region of interest, then compares the resulting signature to min/max tolerance limits</p> <p><b>Benefit:</b> Inspection method for detecting decoration defects on closures and other printed parts</p>

\* Introduced in Version 3.1.2XX



Category	Feature	Description
New Feature	Auto Adjust for Stock Changes	Compensates for stock changes and variations due to washer and other process variables  <b>Benefit:</b> Prevents spoilage due to normal process variations
New Feature	CD Burning Software	Enables customer to burn CDs  <b>Benefit:</b> Provides additional operator convenience
New Feature	Auto Logout *	After a user-selectable period of inactivity, the system will automatically logout the current user  <b>Benefit:</b> Improved security
New Feature	Correlation *	Branding images with correlation data (strip out transfer arms, spindles, etc. from displays)  <b>Benefit:</b> Immediate feedback on which machine component contributed to defective parts
New Feature	Disable Reject	Ability to disable rejecter on an individual inspection  <b>Benefit:</b> Continue to collect statistical data without rejecting parts
New Feature	Dual Blow Off *	Enables the operator to utilize dual blow off for sorting defects (2 lanes, two blow offs maximum)  <b>Benefit:</b> Allows operator to sort defects into separate reject bins for process analysis
New Feature	External Part Tracking *	Software support for new Tracker Board  <b>Benefit:</b> Increases flexibility for non-standard applications
New Feature	Freeze on Inspection *	Allows operator to select which inspection will initiate freeze on defect (similar to Interrogator)  <b>Benefit:</b> Simplifies setup
New Feature	Image Manager	One button saving, displaying, and retrieving good and defective images, with and without graphics  <b>Benefit:</b> Simplifies review of defective part images
New Feature	Inspection Grouping *	Group inspections (like Interrogator)  <b>Benefit:</b> Allows for sorting defects (i.e., sort panel defects from compound channel defects)

\* Introduced in Version 3.1.2XX

Category	Feature	Description
New Feature	Last <i>n</i> parts statistics	Presents statistics for the last <i>n</i> ( <i>n</i> = 100 to 25,000) parts so operator can view most recent part statistics without clearing statistics  <b>Benefit:</b> Easily access recent process information
New Feature	Lifted Tab Inspection *	New inspection to detect lifted tabs on plastic closures <i>(Note: this will be implemented in hardware, not software)</i>  <b>Benefit:</b> Provides additional inspection capability
New Feature	Reject Confirm *	Confirms that defective part was actually removed from the product stream  <b>Benefit:</b> Improved reliability
New Feature	Relative Part Fixture *	Enables customer to use additional part fixtures that are related to other part fixtures (now includes shape adapt off X-Y registration)  <b>Benefit:</b> Improves fixturing on parts with rivets, gates, etc.
New Feature	Seal Surface Defects *	Detect partial/full nicks across seal surface  <b>Benefit:</b> Enables customers to pass containers with seal surface nicks that only go part way across the top seal surface
Ease of Use	Unicode *	Adds full Unicode capability  <b>Benefit:</b> Allows for Japanese translation of on-screen displays
Ease of Use	Auto-boot	After a power loss, the INTELLISPEC™ system will reboot when power is restored and go online automatically (user selectable option)  <b>Benefit:</b> Eliminates need for operator intervention after a power loss
Ease of Use	Hotkeys	Quickly snap images and run jobs using Function Keys  <b>Benefit:</b> Ease of use feature
Process Monitoring	Dimensional Data *	Saves dimensional information to database on all parts  <b>Benefit:</b> Additional process and trending information
Process Monitoring	Flange Width	Calculates flange width by subtracting plug diameter from flange diameter  <b>Benefit:</b> Provides additional process monitoring information

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Category	Feature	Description
Process Monitoring	Indicator Value Report	New standard report that includes Indicator Value results for each defective part  <b>Benefit:</b> Additional process information
Process Monitoring	Indicator Values	IV results for all failed inspections will be recorded with the unique part ID in the defective parts database  <b>Benefit:</b> Additional process information
Process Monitoring	Multi-Lane Correlation	Correlation ability (limited to 2 lanes and 1 item)  <b>Benefit:</b> Process information for non-BNS applications
Reporting	Defective Parts Database *	Keep file name the same when saving reports to disk  <b>Benefit:</b> Allows customer to write programs to automatically "pull" data from INTELLISPEC
Reporting	Improved I/O	Additional digital I/O  <b>Benefit:</b> Provides additional process monitoring/control

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# INTELLISPEC 3.X SOFTWARE UPGRADE

How to upgrade from a previous version of Intellispec 3.x

1. With the system **offline**, log in as **Administrator** or higher.
2. Click the **Miscellaneous** toolbar button.
3. Select the **Utilities** tab.

The screenshot shows the Intellispec software interface. The 'Utilities' tab is selected in the top menu. A yellow callout box with a circled '4' points to the 'Software Upgrade' button. A yellow callout box with a circled '2' points to the 'Miscellaneous' toolbar button. A yellow callout box with a circled '3' points to the 'Utilities' tab. A yellow callout box with a circled '5' points to a 'Continue?' dialog box that appears over the 'Software Upgrade' button. The dialog box contains the text: 'Please insert the INTELLISPEC upgrade media into the system and press YES to continue the upgrade or NO to cancel.' with 'Yes' and 'No' buttons.

4. Click the **Software Upgrade** button.
5. Insert the upgrade CD if you haven't already done so, and click the **Yes** button.
6. Click the **Next** button, watch and wait while the upgrade happens.

The screenshot shows the 'Intellispec Setup' screen. A yellow callout box with a circled '6' points to the 'Next' button. Two installation windows are visible: 'Setup' showing 'Copying program files...' at 16% progress, and 'Installing Help Files' showing 'The status below shows what percentage of the Help files have been extracted.' with a progress bar at 43% for 'C:\PETProVisio...oundingarea.GIF'.

7. When you see this prompt, replace the hardware key attached to the parallel port with the new 3.X hardware key.
8. Remove the CD and click **OK** to restart.
9. Finito! The system should restart and run normally with the new software version.

The screenshot shows an 'Information' dialog box with the text: 'The system will now be rebooted to complete the installation. Remove the installation CD.' and an 'OK' button. A yellow callout box with a circled '7' points to the 'OK' button.