IMPACT SOFTWARE

With over 120 inspection tools and 50 user interface controls, Impact Software allows users to create unique inspection programs and develop user interfaces quickly and easily.

All this can be done without the loss of flexibility, like traditional configurable systems, or the need for vast amounts of development time like traditional SDK environments.
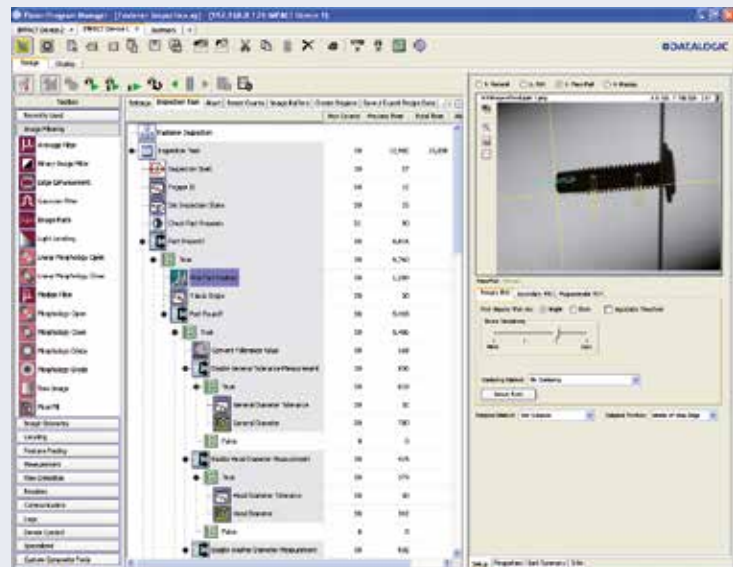
Impact Software powers the full line of integrated vision solutions, from simple to complex. The investment in software and training is preserved as inspections grow. Programs for the same inspections can be easily shared or transferred across multiple inspection points within the factory.

One software – countless applications!

VISION PROGRAM MANAGER

Vision Program Manager (VPM) provides hundreds of image processing and analysis functions. Use VPM to enhance images, locate features, measure objects, check for presence and read text and bar codes.
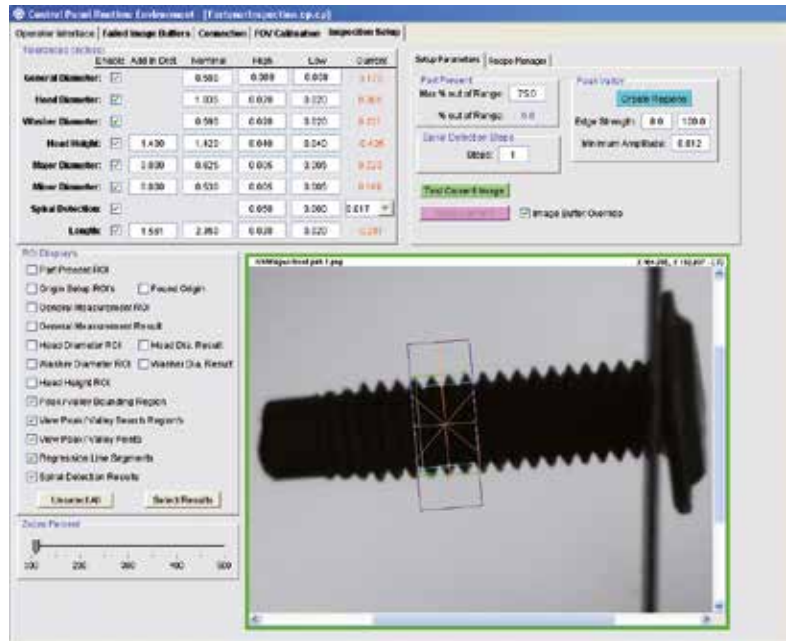

SOFTWARE TOOL GROUP	WHAT THEY DO
Image filtering	Modifies incoming images by applying filtering, edge detection and other image enhancing techniques to help improve inspection robustness.
Image geometry	Modifies the image shape to correct for distortion, size or to allow for sampling of the image data.
Locating	Designed to find specific features in the inspection image, such as edges or unique shapes, to provide a reference position for other inspection tools.
Feature finding	Identifies features through the setting of specific parameters such as shape, size, color, intensity or other attributes.
Measurement	Provides distance measurements between any set of points, features, edges or combination of points and edges.
Flaw detection	Identifies flaws based on setting specific tolerances for shape, size, color, intensity or other attributes.
Readers	Allows for the reading of machine or human readable codes such as barcode, datamatrix and alpha-numeric printed data.
Communications	Provides the ability to send data to other devices usingt tcp/ip, serial, modbus, opc or other protocols.
Logic	Performs basic arithmetic and logical operations on vision results. Also allows for creation of looping structures in the vision program without writing code.
Device control	Allows for the modification of camera settings or system configuration from the vision program.

CONTROL PANEL MANAGER

Control Panel Manager (CPM) simplifies development of operator interfaces while providing the ability to make on the fly adjustments to critical machine controls.
Use CPM to create operator interface panels operator interface panels to view and adjust critical machine controls.

FEATURE	BENEFIT
Drag-and-drop linking	Provides easy data transfer from VPM
Password protected	Prevents unauthorized changes to critical inspections
Image logging	Enhances file and process debugging
Built-in graphics	Easily displays process statistics
Reusable control panel templates	Reduces application development time and cost
Edit settings	Online tweaks machine controls in real time

IMPACT SOFTWARE

One software fits all
The entire range of smart cameras and vision processors can be configured through the Impact Software suite. Users need only learn one program thus shortening their learning curve. Once developed, the same application can be used on different hardware platforms with no modifications or reprogramming.

Ease-of-use
Impact Software suite is a graphical user interface where no programing is required. Neither VPM nor CPM forces a user to write code. Rather, developers need only to drag-and-drop tools into the tree view and set parameters. Thanks to the embedded emulator, settings can be tested immediately with images previously stored on the PC.

Wide range of controls
With more than 120 software tools, Impact is one of the most complete machine vision software suites available on the market. Image filtering, calibration, feature locating, flaw detection, measurement and code reading are just few examples of the wide range of tools available which allow users to solve even the most challenging applications.

Control Panel Manager (CPM)
Developers can easily create customized user interfaces thanks to Control Panel Manager (CPM). This software allows users to build up full HMIs just by dragging and dropping controls onto a panel. Authorized operators have the possibility to check images, results and statistics as well as to adjust or modify the working parameters of inspection tasks.