Sherlock™

machine vision software for industry

ipd™
machine vision made simple

the choice among vision integrators

Sherlock is advanced machine vision software that can be easily configured to solve a wide variety of automated inspection applications. This Windows-based graphical design environment provides a rich suite of proven tools and capabilities that have been deployed in thousands of installations worldwide. Recognized throughout the machine vision industry, Sherlock offers you the power and flexibility to solve your vision applications while providing the assurance that comes with popular product.

the benefit t

This automated quality problems before your tomer satisfaction, incr the same time. In addi machine vision tool ca investment.

Solution Management and Controls

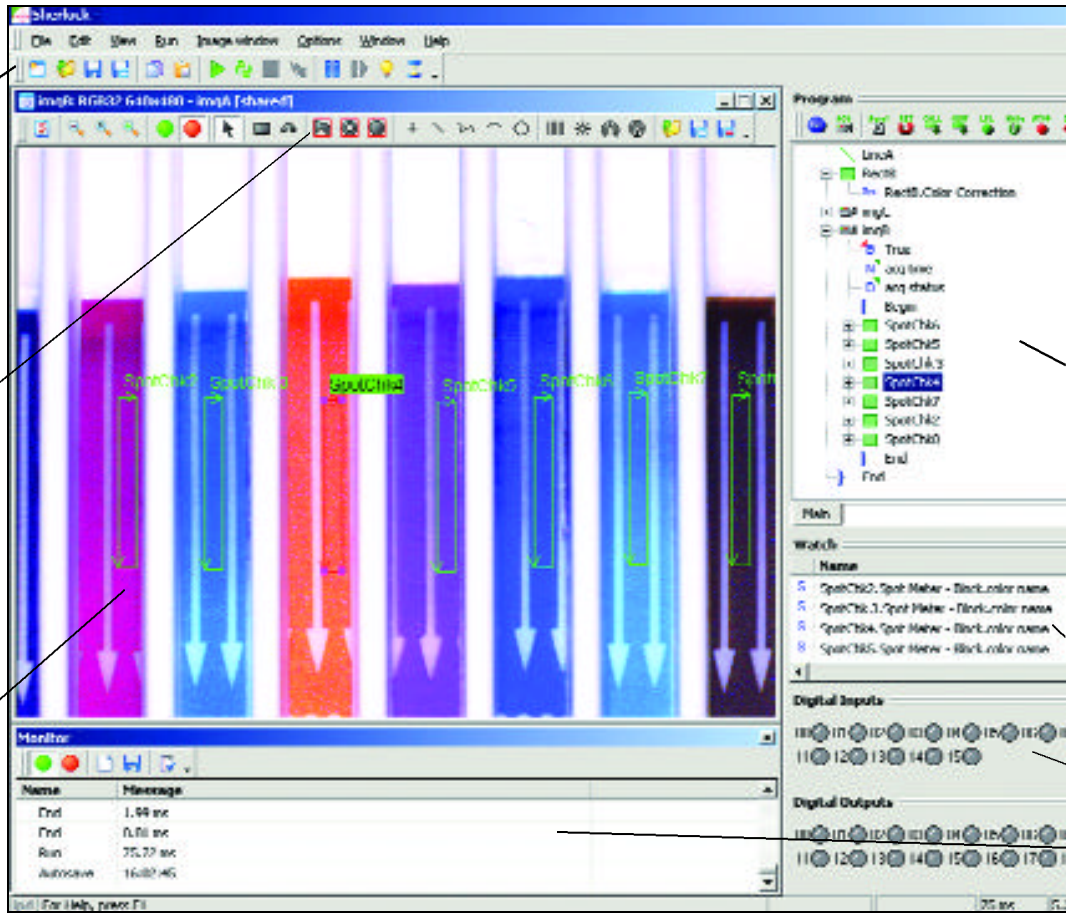
Open and save solutions, start and stop inspection. Includes single-step and slow-step debug operations.

Image Window Controls

Load, acquire, save and zoom images. Select Region-Of-Interest shapes and apply image preprocessors and algorithms.

Image Window

Displays image during setup and live image at runtime. Images are acquired from cameras, files or sequence of files.



supports custom operator interfaces

o vision users

y assurance tool allows you to identify and correct customers find them. It will help you improve cus- rease productivity and reduce production costs all at ition, if your inspection needs should change, your n stay the same, thus protecting your technology

Program Instruction Toolbar

Provides quick access to commonly used instructions. These include acquisition, subroutine creation, program steering, conditional statements and scripting.

Program

The program window displays the sequence of instructions or actions that comprise an inspection. Program snippets can be copied and paste back into the program or a subroutine.

Feedback Windows

Viewing windows provide immediate status of program events. They provide feedback of instruction timing, algorithm results, variables, hardware I/O, result reporting and more.

tools for any application

Region Of Interest (ROI) Shapes:
Flexible Area and Line ROI selection: Rectangular, Annulus, Polygon, Torus, Circle, Point, Line, Polyline, Arc, Rake, Spoke, Rainbow, Bulls-eye

Preprocessors:
Extensive set of functions that can be applied to a ROI prior to analysis. Preprocessors condition the image for optimal performance of analysis tools.

Positioning Tools:
Advanced pattern finding tools are used for object alignment and robot guidance. They are tolerant of lighting variation and changes in part position, rotation and scale.

Measurement Tools:
Precise measurement tools can compute dimensions of a variety of parts and shapes. Calibration tools correct for camera distortion and convert measurement units to real world coordinates.

Analysis Tools:
Extensive analysis tools for finding and counting edges, extracting and analyzing blobs, detecting contrast variation and performing statistical analysis.

Color Tools:
Learn colors for monitoring, classifying, sorting, tracking, and counting objects.

Reader Tools:
Reads and verifies 1D barcodes. Reads, verifies and grades 2D matrix symbologies. Reads and identifies printed, molded or stamped text (OCR).

Script Tools:
Using our JavaScript based scripting tool, complete with drag and drop instruction editing, you can develop custom formulas or in-line and background operations within the application.

Custom Algorithms:
Unique inspection needs may require a custom tool. Sherlock accommodates this by allowing custom plug-ins.

flexible interface

Workspace:
Supports dockable and resizeable windows with customizable toolbars

Editing:
Drag-and-drop, copy-and-paste, enhanced tool tips and status bars, context menus, performance monitoring

Input/Output:
Serial, digital, analog, file I/O, SPC, 3rd party

Communication:
TCP/IP, Ethernet/IP, Modbus, OPC

Operator:
Fully supported by Visual Basic for development of custom operator screens

choice of hardware

Low cost, easy to integrate, machine vision solution for single or dual camera inspections.

MODEL: VA21

Performance solutions for single or dual camera line scan applications. Supports a variety of standard CameraLink cameras.

MODEL:
VA50/51

Performance solutions for single or multi camera applications. Supports a wide range of camera types and resolutions.

MODEL:
VA40/41

Sherlock can run within a standard or industrial PC environment with your choice of camera.

MODEL:
USER DEFINED

choice of camera

Analog:
640x480 to 1600x1200

CameraLink:
Area or Line Scan

FireWire™:
640x480 to 1600x1200

Gigabit Ethernet:
640x480 to 1600x1200

machine vision made simple

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