
Key Differences Between DT Vision Foundry and GLOBAL LAB Image/2

DT Vision Foundry is intended for machine vision, inspection applications. GLOBAL LAB Image/2 is intended for scientific and general-purpose imaging applications.

Development versions are available for both DT Vision Foundry and GLOBAL LAB Image/2; buy the development version to create your application. Run-time versions are available for DT Vision Foundry only; buy the run-time version to run a DT Vision Foundry application on another computer.

DT Vision Foundry contains all of the tools provided in GLOBAL LAB Image/2, plus the following tools: Search, Image Classifier, Contour Classifier, Barcode Reader, Data Matrix Barcode Reader, and Status. In addition, DT Vision Foundry provides administration rights/security options to meet FDA 21, CFR Part 11 regulations. [Table 1](#) summarizes the tools that are provided only in DT Vision Foundry. [Table 2](#) summarizes the tools that are common in both packages.

Table 1: Tools Only in DT Vision Foundry



Tool Category	Tool	Description
Inspection	 Search Tool	Uses correlation algorithms to find features within an image.
	 Image Classifier	Very quickly compares an image to one that was cataloged previously.

Table 1: Tools Only in DT Vision Foundry





Tool Category	Tool	Description
Inspection (cont.)	 Contour Classifier Tool	Compares enclosed shapes (contours) to contours that were cataloged previously.
Image Analysis	 Barcode Reader Tool	Decodes one-dimensional barcodes in an image.
	 Data Matrix Reader Tool	Decodes ECC200 data matrix symbols in an image.
System Tools	 Status Tool	Allows you to implement a pass/fail warning screen and define warning criteria for use with a Point & Click script.

Table 2: Common Tools in DT Vision Foundry and GLOBAL LAB Image/2



Tool Category	Tool	Description
Input/Output	 Picture Tool	Acquires an image from an imaging device.
	 AVI Player Tool	Plays AVI video clips.

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

Tool Category	Tool	Description
Input/ Output (cont.)	 TWAIN Tool	Imports TWAIN format image files.
	 Digital I/O Tool	Reads and writes data to digital I/O devices.
	 Export Tool	Exports variable data and images.
	 Import Tool	Imports variable data and images.
	 Serial I/O Tool	Sends and receives data through the serial port of your PC.
	 File Manager Tool	Opens images from disk.
Image Processing	 Arithmetic Tool	Performs arithmetic operations on two input images.
	 Filter Tool	Applies a filtering algorithm (convolution) to an input image.

Table 2: Common Tools in DT Vision Foundry and GLOBAL LAB Image/2








Tool Category	Tool	Description
Image Processing (cont.)	 Image Modifier Tool	Crops, rotates, flips, or scales an input image.
	 Polar Unwrap Tool	Converts a circular object in a image (in polar coordinates) into a linear object (in rectangular coordinates).
	 Morphology Tool	Performs morphology operations on a binary image.
	 Threshold Tool	Creates a binary image from a monochrome, RGB, or HSL image.
	 Pixel Change Tool	Changes the values of pixels in an image or a transparent overlay.
	 Color Plane Tool	Allows you to access the color data of a 24-bit color image in RGB, HSL, or YIQ format.
	 Color Split Tool	Allows you to separate a 24-bit RGB image into one or more color plane, YCrCb, or color-difference images.

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Tool Category	Tool	Description
Image Analysis	 Line Profile Tool	Creates and analyzes the line profiles of images.
	 Histogram Tool	Creates histograms of images.
	 Blob Analysis Tool	Calculates over 70 calibrated measurements and statistics quickly for all blobs (particles).
	 ROI Manager Tool	Creates and analyzes regions of interest (ROIs).
	 Gauge Tool	Measures various parameters of an image in calibrated units.
	 Edge Finder Tool	Extracts edges and contours from a binary image.
	 ROI Shape Fitter Tool	Fits ROIs to a particular edge or contour found within a binary image.
	 Calibration Tool	Creates a calibration object that you can use to calibrate your imaging system.

Table 2: Common Tools in DT Vision Foundry and GLOBAL LAB Image/2

Tool Category	Tool	Description
Image Analysis Tools (cont.)	 Match Tool	Compares two input images.
System Tools	 Image Manager	Allows you to easily manage images in memory.
	 Display Tool	Allows you to specify how you would like to view a grayscale image.
	 Prompt Tool	Allows you to set up how your application interacts with your end-user during execution.
	 Sound Tool	Plays WAV sound files using any standard, configured sound card.
	 Text Tool	Creates multi-line text that can be edited and positioned in the image.