

# Image Processing Toolbox

Perform image processing, analysis, and algorithm development.

Image Processing Toolbox™ provides a comprehensive set of reference-standard algorithms and graphical tools for image processing, analysis, visualization, and algorithm development. You can perform image enhancement, image deblurring, feature detection, noise reduction, image segmentation, geometric transformations, and image registration. Many toolbox functions are multithreaded to take advantage of multicore and multiprocessor computers.

Image Processing Toolbox supports a diverse set of image types, including high dynamic range, gigapixel resolution, embedded ICC profile, and tomographic. Graphical tools let you explore an image, examine a region of pixels, adjust the contrast, create contours or histograms, and manipulate regions of interest (ROIs). With toolbox algorithms you can restore degraded images, detect and measure features, analyze shapes and textures, and adjust color balance.

## Key Features

- Image enhancement, filtering, and deblurring
- Image analysis, including segmentation, morphology, feature extraction, and reconstruction
- Spatial transformations and image registration
- Image transforms, including FFT, DCT, Radon, and fan-beam projection
- Workflows for processing, displaying, and navigating arbitrarily large images
- Modular interactive tools, including ROI selections, histograms, and distance measurements
- ICC color management
- Multidimensional image processing
- Image sequence and video display
- DICOM import and export



Getting Started with Image Processing Toolbox 1-11

Explores Image Processing Toolbox™ capabilities for segmentation, morphology, image statistics, and image transforms.

## Importing and Exporting Images

Image Processing Toolbox supports images generated by a wide range of devices, including digital cameras, satellite and airborne sensors, medical imaging devices, microscopes, telescopes, and other scientific instruments. You can visualize, analyze, and process these images in many data types, including single-precision and double-precision floating-point and signed and unsigned 8-bit, 16-bit, and 32-bit integers.

There are several ways to import and export images into and out of the MATLAB® environment for processing. You can use [Image Acquisition Toolbox™](#) to acquire live images from Web cameras, frame grabbers, DCAM cameras, GigE Vision cameras, and other devices. Using [Database Toolbox™](#), you can access images stored in ODBC-compliant or JDBC-compliant databases.

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**Chao Zhang**



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