

Image Acquisition in MATLAB. Acquire Images and Video from Industry Standard Hardware (Paperback)



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(Fabian Kuhlman II)*

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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The Image Acquisition Toolbox software is a collection of functions that extend the capability of the MATLAB numeric computing environment. The toolbox supports a wide range of image acquisition operations, including: -Acquiring images through many types of image acquisition devices, from professional grade frame grabbers to USB-based webcams -Viewing a preview of the live video stream -Triggering acquisitions (includes external hardware triggers) -Configuring callback functions that execute when certain events occur -Bringing the image data into the MATLAB workspace Many of the toolbox functions are MATLAB files. This book develops functions and blocks that enable you to connect industrial and scientific cameras to MATLAB and Simulink. Image Acquisition Toolbox includes a MATLAB app that lets you interactively detect and configure hardware properties. The toolbox enables acquisition modes such as processing in-the-loop, hardware triggering, background acquisition, and synchronizing acquisition across multiple devices. This toolbox supports all major standards and hardware vendors, including USB3 Vision, GIGE Vision, and GenICam GenTL. You can connect to 3D depth cameras, machine vision cameras, and frame grabbers, as well as high-end scientific and industrial devices. Its most important characteristics are the following: -USB3 Vision, GIGE Vision, DCAM, Camera Link, and GenICam GenTL support -3D camera support, including Kinect for Windows v2 -OS video interfaces, including DirectShow, QuickTime, and video4linux2 -Multiple options for acquisition mode selection and buffer management -Hardware triggering and synchronization for multiple devices -Image Acquisition app for rapid configuration, acquisition, and live previewing -Support for C code generation You can extend Image Acquisition Toolbox capabilities by writing your own MATLAB.



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