

The videoJaiAq toolbox cheat sheet (April 2019)

Methods	Description
<code>cam = videoJaiAq(1, 'Mono8');</code>	load object called cam
<code>camBasicSettings(cam);</code>	dialog box – simple settings
<code>camSettings(cam);</code> <code>camSettings(cam, 'save', 'filename');</code> <code>camSettings(cam, load, 'filename');</code>	dialog box – extended settings save settings to cameraSettings folder load settings from cameraSettings folder
<code>cam.camera.src.PropertyName = PropertyValue;</code>	change camera property
<code>get(cam.camera.src)</code>	list camera properties
<code>preview(cam)</code>	preview camera
<code>advancedPreview(cam)</code>	preview camera with live histogram
<code>crop(cam)</code> <code>cropReset(cam)</code>	crop to user-defined ROI reset crop
<code>camFocus(cam)</code>	open focus assist tool
<code>camColor(cam, gray)</code> <code>camColor(cam, jet)</code> <code>camColor(cam, 'satColor')</code>	change colour of live stream
<code>acquireBackground(cam, x)</code>	acquire x number of background images and save a time-average
<code>camCalibrate(cam, 'line')</code> <code>camCalibrate(cam, 'checker', squareSize, numCalImages)</code> <code>camCalibrate(cam, 'dye')</code>	open user-assisted calibration
<code>acquire(cam, 'on', 'on', x, 'myMovieName', 'on')</code>	acquire x images and save as avi movie in outputs/exp* folder 2 nd argument sets background save status 3 rd argument sets calibration save status 6 th argument sets live acquisition status
<code>fieldnames(cam.background)</code> <code>fieldnames(cam.calibration)</code>	display field names of a structure
<code>i = getsnapshot(cam.camera.vid);</code> <code>imshow(i)</code> <code>imwrite(i, 'filename')</code> <code>imread('filename')</code>	get single image show image save image load image
<code>implay('outputs/exp*/raw.avi')</code>	play movie
<code>liveBackgroundSubtract(cam)</code>	live background subtraction mode
<code>liveEdge(cam)</code>	live edge detection
<code>livePIV(cam)</code>	process a PIV image pair
<code>liveOF(cam)</code>	live optical flow mode
<code>extractFrames('filename')</code>	save individual frames from a movie