
**Matrox Imaging Library (MIL) 10 Update 72
Release Notes (MILirisGTR)
May, 2018
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This document outlines what is new and explains the current limitations and particularities when using MIL with Matrox Iris GTR.

It also presents last-minute information that did not make it into the manual or on-line help. Note that this help file serves to complement your manual. The information found in this file overrides your formally documented material.

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1. Overview of functionality

The MIL Reference in MIL Help now documents Matrox Iris GTR specific values in the Mdig and Msys functions.

The help for this product should be readily available, as installed boards are displayed by default. To display only the Matrox Iris GTR information in this help file, go to the Customize MIL Help section of Chapter 0: About MIL help. Select the **Matrox Iris GTR** option from the **MIL Systems** drop-down list. Unselect all others. Select the **Non-Matrox computer** option from the **Computer** drop-down list.

2. Behavior changes

MIL 10 Update 72

- MIL 10 Update 72 is a cumulative update, including all content from MIL 10 Update 65.
- Fixed MdigInquire M_GRAB_PERIOD
- Fixed programming invalid focus value when the persistence is enable without a value
- **MdigControl** with **M_IO_INTERRUPT_ACTIVATION + M_ANY_EDGE** now allows to receive interrupt whenever the IO level changes for rising and falling edges.

MIL 10 Update 65

- MIL 10 Update 65 is a cumulative update, including all content from MIL 10 Update 28.
- Using **M_WHITE_BALANCE** with **M_ENABLE** for the first time after **MdigAlloc** now behaves as described in the MIL Help (i.e., it internally calculates the white balance coefficients). Also, inquiring **M_BAYER_COEFFICIENTS_ID** before enabling the white balance will return **M_NULL**, as described in the MIL documentation.
- **MdigControl** with **M_SOURCE_OFFSET_Y** or with **M_GRAB_SCALE_Y** now generates a MIL error if executed on a color sensor and **M_GRAB_SCALE_Y** is set to 0.5 and **M_SOURCE_OFFSET_Y** is not a multiple of 4. This is a sensor limitation and the previous behavior was causing buffer corruption.

MIL 10 Update 28

- **MdigControl** with **M_GAIN** is a range from 0 to 255.
- The default image orientation of an image grabbed using Matrox Iris GTR was set so that it is the same orientation as an image grabbed using Matrox Iris GT.
- **MdigControl** and **MdigInquire** have two new control/inquire types: **M_FOCUS_PERSISTENCE** and **M_FOCUS_PERSISTENT_VALUE**. The **M_FOCUS_PERSISTENCE** control/inquire type can accept **M_DISABLE (M_DEFAULT)** or **M_ENABLE** as values. The **M_FOCUS_PERSISTENT_VALUE** control/inquire type can accept the same values as **M_FOCUS**. If **M_FOCUS_PERSISTENCE** is set to **M_ENABLE**, then **MdigAlloc()** initializes the auto-focus position, if present, to the position determined by **M_FOCUS_PERSISTENT_VALUE**.

3. Known Limitations

- Building the MIL examples using Visual Studio 2015 or 2017 also requires the presence of Windows SDK version 8.1, which is installed from the Visual Studio setup.
- Windows' automatic 8.3 file name creation needs to be enabled in order for the MIL installer to access the temp folder when the user name contains a space. This option allows Windows to create short file/folder name aliases for ones with long names for programs, such as the MIL installer, that don't support spaces in the file/folder names. Alternatively, the MIL installer needs to run from a user account that belongs to the administrators group and has no spaces in it. Note that the same applies for uninstalling MIL.
- The required Visual C++ 2017 Redistributable needs the presence of KB2919442 and KB2919355. These will need to be obtained and applied before installing this update.
- The MIL update requires a Windows installation that supports device drivers with SHA-2 digital certificates. Consequently, some Windows 7 installations will require that a Windows Monthly Rollup be applied before the MIL update can be installed.
- DCFs are not supported for the IrisGTR.