

Introduction

These release notes describe the changes in IDS peak 2.14. With this version, the IDS peak comfortSDK is extended and the user interface of IDS peak Cockpit is now available in additional languages.

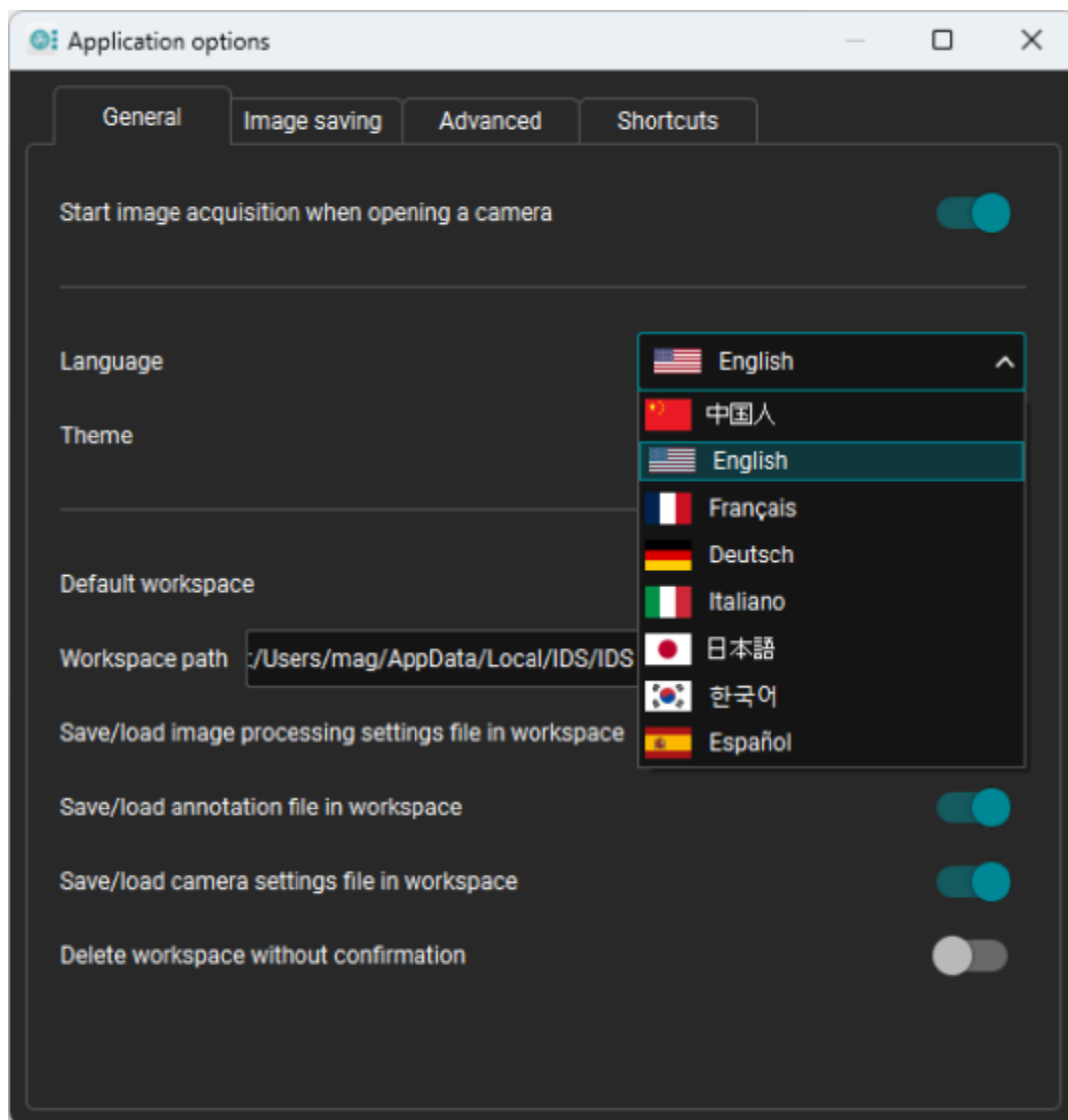
IDS peak 2.14

New and changed functions

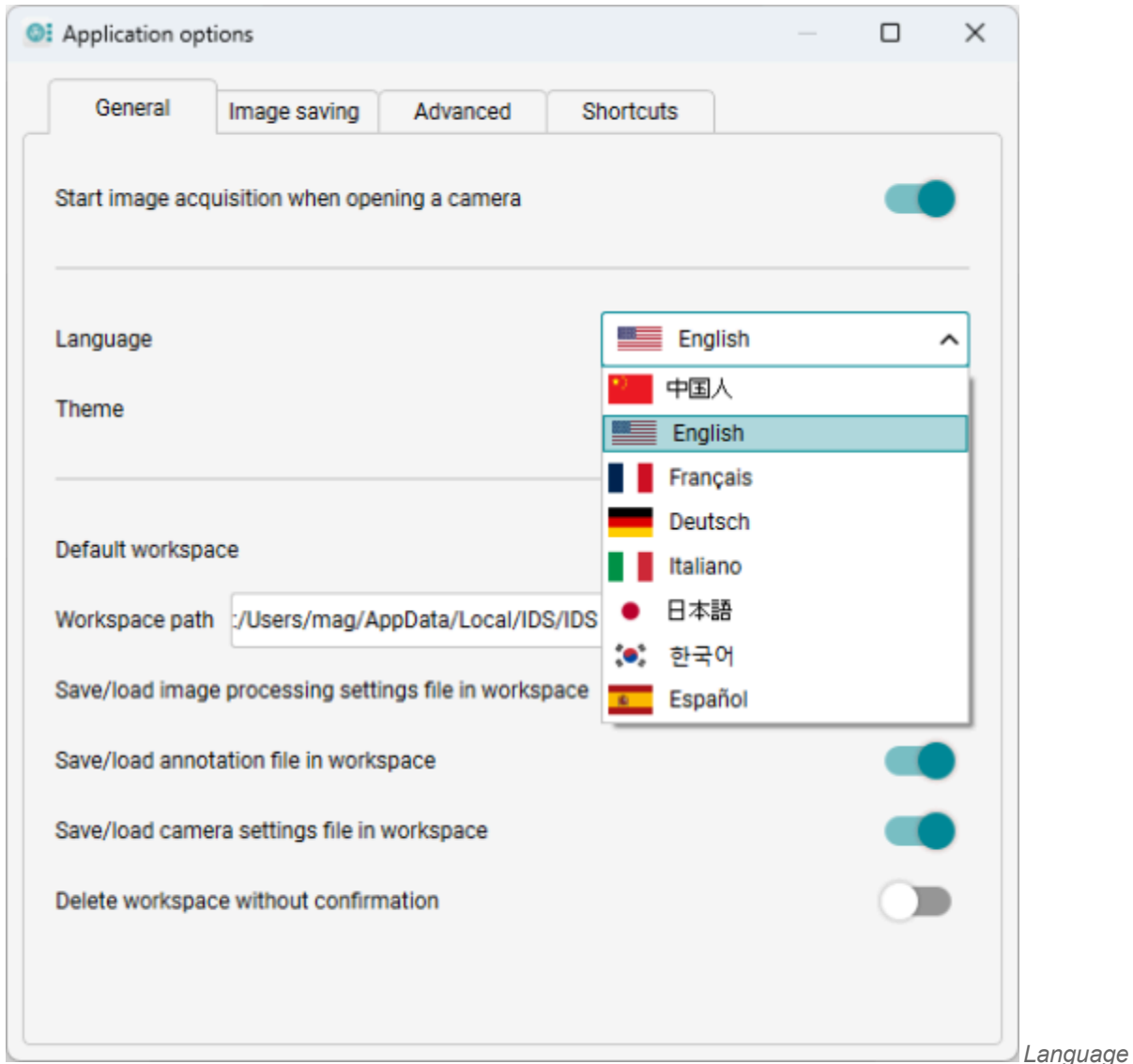
IDS peak Cockpit

The user interface of the IDS peak cockpit is available in Chinese, French, Japanese, Korean and Spanish. At the first start, the IDS peak Cockpit uses the system language (fallback: English). You can change the language of the user interface in the “General” tab of the application settings.

You can set the camera's black level in the “Brightness/frame rate” dialog. This feature is model-dependent and only available for certain uEye+ cameras.



Language selection in the application settings (dark theme)



selection in the application settings (light theme)

IDS peak comfortSDK

The comfortC interface for controlling input and output channels has been extended by a flexible interface. The existing interface is retained, but has been marked as “deprecated”. In the new implementation, the generic channels must first be checked for functionality and direction. Fixed enumeration values for specific functions such as flash or software-controlled triggers are no longer required. Additionally, the level of GPIOs can be modified.

The IPO thread (image performance optimization thread) can now be enabled via the comfortC interface for USB3 Vision cameras. The IPO thread prevents modern CPUs from switching to sleep states, which could otherwise cause a performance drop or increase latency during image acquisition.

You can use the comfortC interface to configure the black level of the camera.

You can use the comfortC interface to calculate histogram data for images.
You can now rotate the image in 90-degree steps.
You can use the new bandwidth management functions to query and restrict the maximum data transfer rate.
New programming sample or IDS peak comfortC

sequencer_qtwidgets

This example requires a camera that supports the Sequencer feature.
The example allows to parameterize 4 sequencer sets and to execute them in trigger mode. The following parameters can be used:

- Exposure time
- Gains (master gain, red gain, green gain, and blue gain)
- Height, width, offsetX, and offsetY

The example uses QtWidgets for this.

GEV Transport Layer

A reconnect error for the GEV transport layer has been fixed and general stability has been improved.

uEye Transport Layer

Additional features have been added to the uEye Transport Layer to enhance the operation of uEye cameras (UI models) under IDS peak:

You can use LEDControl to configure the LED for USB 3 cameras and USB 2 uEye SE cameras.

From version 2.14 on, you can use the UI-1007XS Rev. 1.1/UI-1007XS with IDS peak. Some features might not be available due to the reduced feature set of the model.

Component versions used in IDS peak 2.14

Component	Version Windows	Version Linux
IDS peak comfortAPI	1.11.0.0	1.11.0.0

IDS peak genericAPI	1.10.0.0	1.10.0.0
IDS peak IPL	1.14.0.0	1.14.0.0
IDS peak AFL	1.6.1.0	1.6.1.0
IDS peak Cockpit	2.2.0.0	2.2.0.0
Tool Device Command	1.4.5.0	1.4.5.0
Tool Device Update	1.4.6.0	1.4.6.0
Tool IP Config	1.4.5.0	1.4.5.0
Tool Device Password	1.0.2.0	1.0.2.0
Support Tool	1.2.0.0	1.2.0.0
DirectShow	0.3.0.1	-
GenTL GigE Vision user space	1.18.0.0	1.18.0.0
GenTL GigE Vision kernel	1.18.0.0	-
GigE Vision kernel driver (WHQL)	1.6.3.0	-
GenTL USB3 Vision user space	-	1.18.0.0
GenTL USB3 Vision kernel	1.18.0.0	-

USB3 Vision kernel driver (WHQL)	1.6.1.0	-
GenTL uEye (uEye Transport Layer)	1.18.0.0	1.18.0.0
GenICam	3.4.1.1	3.4.1.1

Known issues

The list of known issues can be found in the corresponding ReadMe files for Windows and Linux.

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