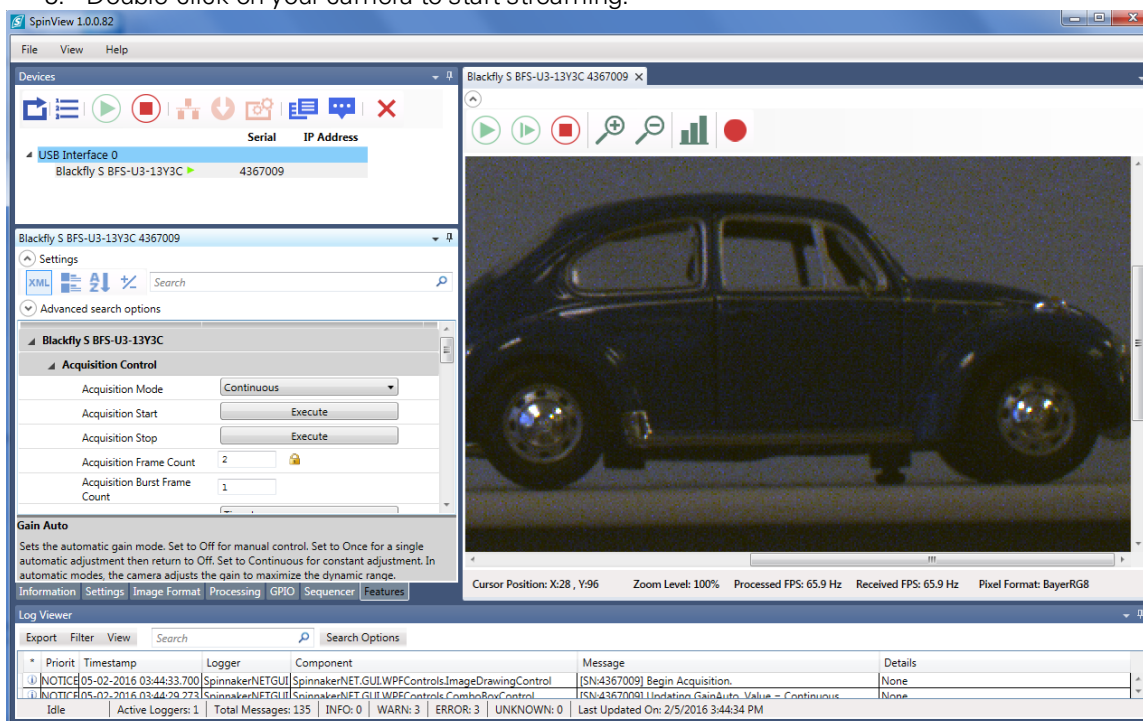# Getting Started with SpinView

1. Download the Spinnaker® SDK from our downloads page.

2. Follow the installation instructions.

3. Connect your camera to your computer.

4. Launch SpinView:
   Start Menu-->All Programs-->Spinnaker SDK-->SpinView
   Your camera appears in the Devices pane.

5. Double-click on your camera to start streaming.

Further configuration of the camera can be done using the Features pane described below.

Navigating SpinView

Menus

There is a main menu at the top of the SpinView window.

Menu	Function
File-->Exit	Closes the SpinView application
View-->Dynamic Dialogs	Opens dialogs in the Features pane, grouped by function. These are also accessible via tabs at the bottom of the Features pane.
View-->Rendering Methods	Switch between CPU and GPU rendering methods
View-->Reset View to Default	Restore window layout to the default view
View-->Resest Application Settings	Reset and load default settings at next launch
View-->Get Timing Performance	Opens a timing profile log for debugging. This can be copied to the clipboard.
Help-->About	Opens the About SpinView dialog

There are also shortcut menus accessible via right-click available in the Devices pane, Features pane, and Display pane.

2/1/2017
©2015-2017 FLIR
Integrated Imaging
Solutions Inc.
All rights reserved.

Getting Started with SpinView

2

Buttons

Toolbar buttons are available for many functions.

Button	Toolbar	Function
	Devices Pane	Refresh the devices list
	Devices Pane	Display all adaptors in the Devices pane
	Devices Pane Display Pane	Start acquisition
	Devices Pane Display Pane	Stop acquisition
	Devices Pane	Configure device IP address. Only applicable to GigE cameras.
	Devices Pane	Switch Device Driver. Opens the Driver Configuration window.
	Devices Pane	Update device firmware. Opens the Firmware Update window.
	Devices Pane	Copy camera properties to clipboard
	Devices Pane	Show camera properties. Opens the Properties window.
	Devices Pane	Disconnect the camera
	Display Pane	Single image acquisition
	Display Pane	Save image to disk
	Display Pane	Zoom in / Zoom out
	Display Pane	Display histogram. Opens the Histogram window.
	Display Pane	Open Recording window
XML	Features Pane	Sort features by XML sequence
	Features Pane	Sort features by category

2/1/2017
©2015-2017 FLIR
Integrated Imaging
Solutions Inc.
All rights reserved.

Getting Started with SpinView

3

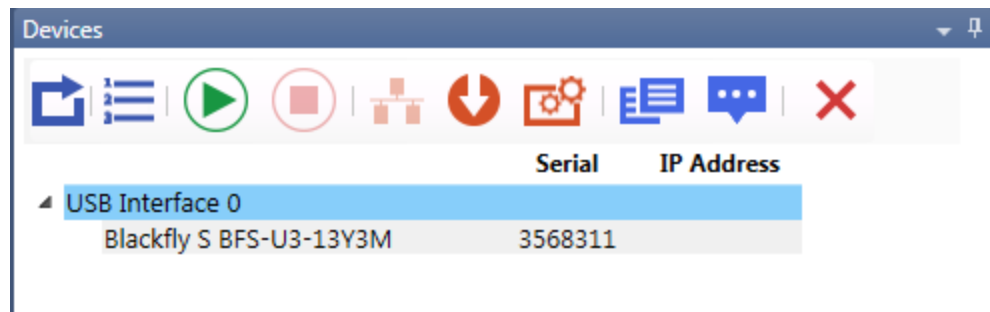| Button	Toolbar	Function
↓	Features Pane	Sort features alphabetically
±	Features Pane	Expand/collapse all nodes

Main Window

The SpinView main window is divided into separate panes. You can resize, float, or dock these panes.

- **Devices** - lists all connected devices, or all adapters

- **Display** - displays the current image acquisition along with acquisition settings and image chunk data (if enabled)

- **Features** - lists all features for the selected camera features in order to view and control camera parameters

- **Log Viewer** - lists all system messages, errors, and warnings

Devices Pane

The Devices pane shows adaptors with cameras currently connected to them or all adaptors. Select a camera to load its features.

To toggle between views, click ☰

Devices Pane - Cameras Connected

To refresh the devices list click ↱

2/1/2017
©2015-2017 FLIR
Integrated Imaging
Solutions Inc.
All rights reserved.

Getting Started with SpinView

4

Features Pane

The features pane displays the features of the selected camera and provides access to managing the camera parameters.

By default, the features pane displays the Features tab.

Groups of features can also be accessed through tabs at the bottom of the features pane.
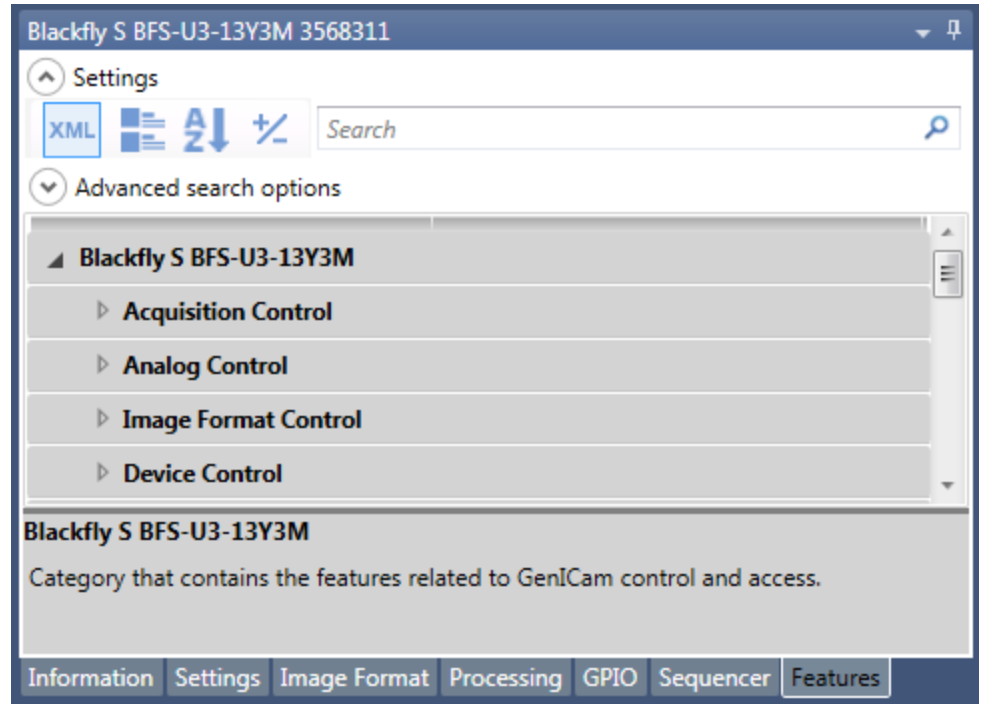
Features Tab

These features are grouped by:

- Information
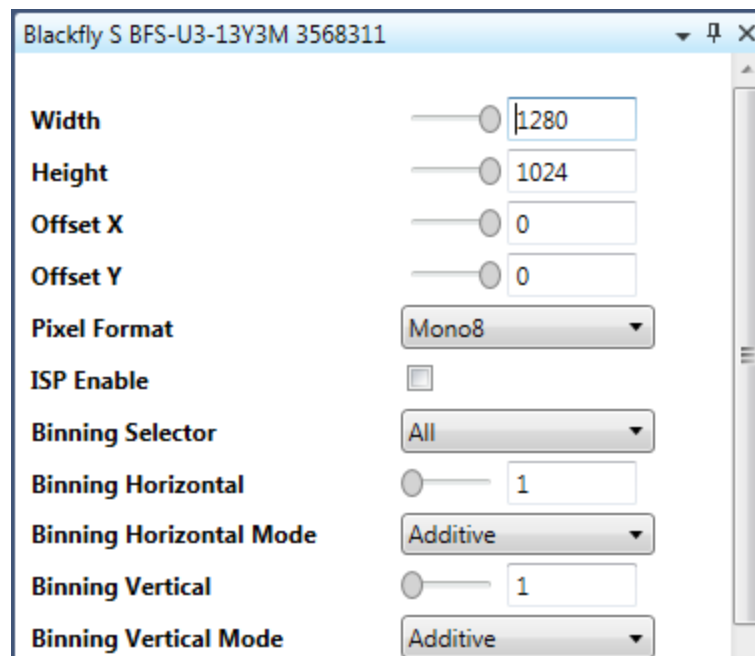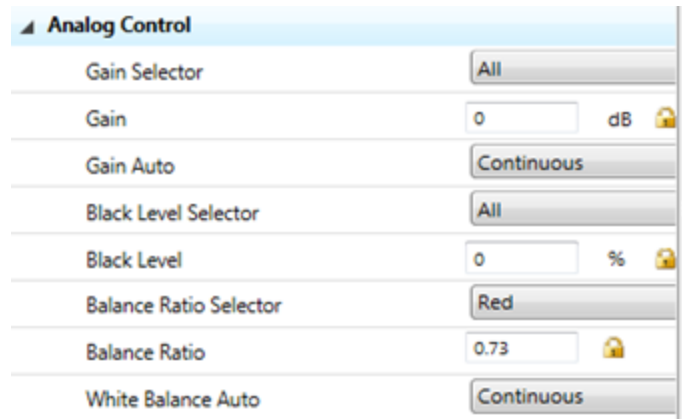- Settings
- Image Format
- Processing
- GPIO
- Sequencer

Image Format Tab

2/1/2017
©2015-2017 FLIR
Integrated Imaging
Solutions Inc.
All rights reserved.

Getting Started with SpinView

5
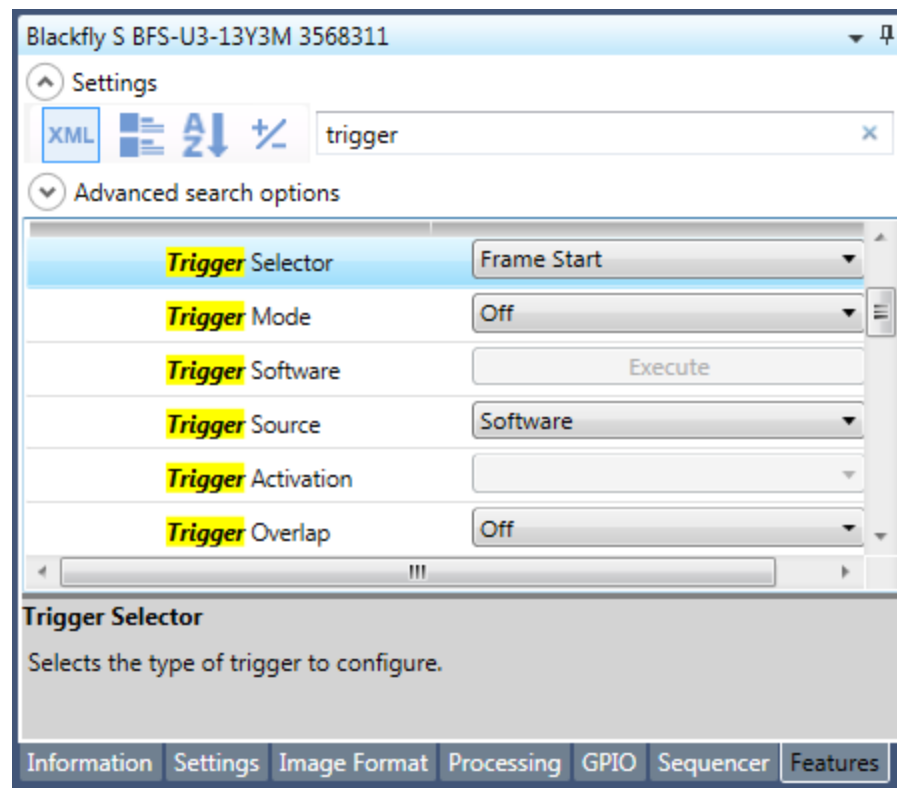
Features can be sorted in three ways:

- By the XML sequence **XML** (Default)

- By categories

- Alphabetically

Features Sorted by XML

Features marked with a lock symbol 🔒 are read only. Some features may be locked and unlocked based on the settings of other features. Some features are always read only.

In the Features pane you can search for a feature. The search is executed as soon as you begin typing. Found items are highlighted.
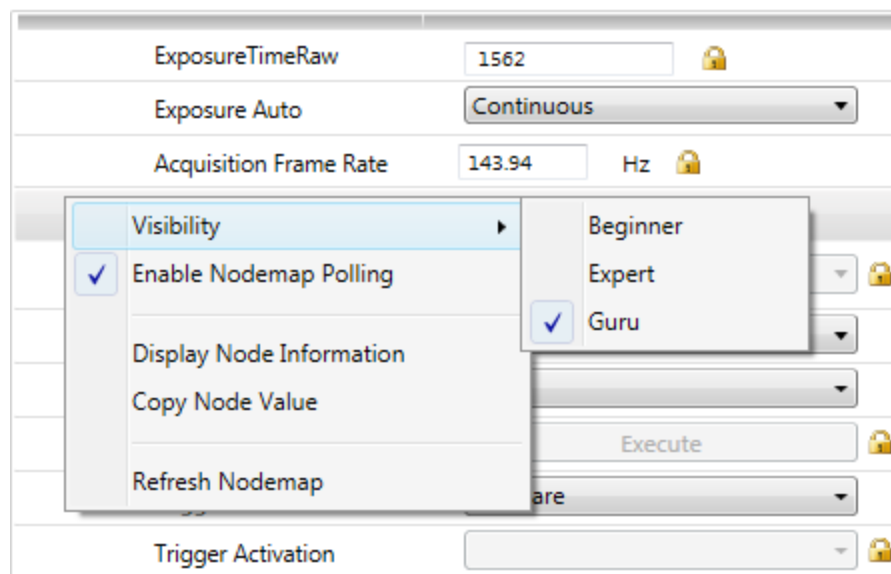

Search Execution

2/1/2017
©2015-2017 FLIR
Integrated Imaging
Solutions Inc.
All rights reserved.

Getting Started with SpinView

6

Selecting a feature displays a description. Hovering over a text box displays a tooltip with the feature's valid range.
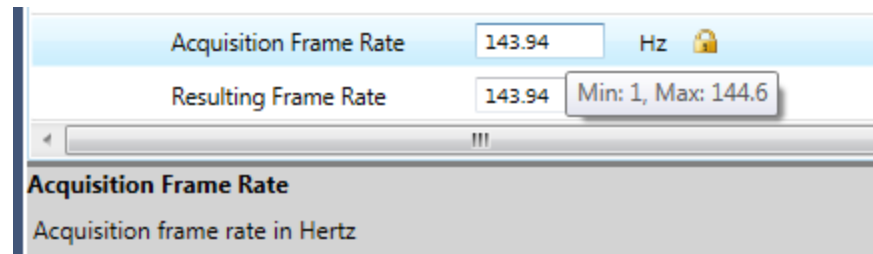

Feature Tooltips and Descriptions

Right-click in the Features pane to access a shortcut menu.


Features Shortcut Menu

From the shortcut menu you can change your visibility of the features. By default, SpinView displays everything (Guru) but this can be limited by selecting Expert or Beginner.

2/1/2017
©2015-2017 FLIR
Integrated Imaging
Solutions Inc.
All rights reserved.

Getting Started with SpinView

7

From the shortcut menu, select Display Node Information to see an information pane about the feature. This information can be copied to the clipboard.
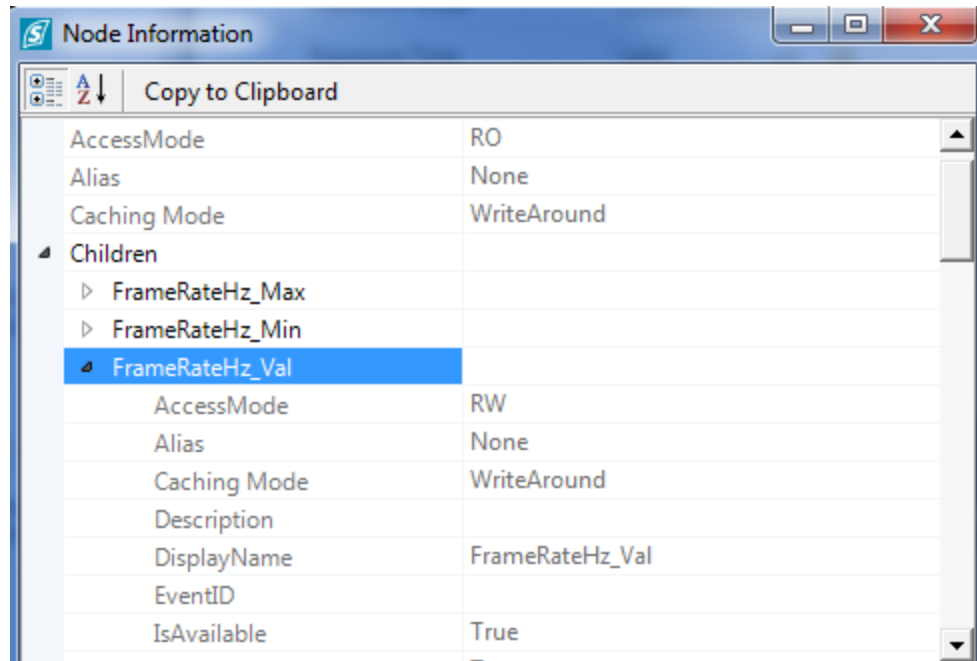
Feature Node Information
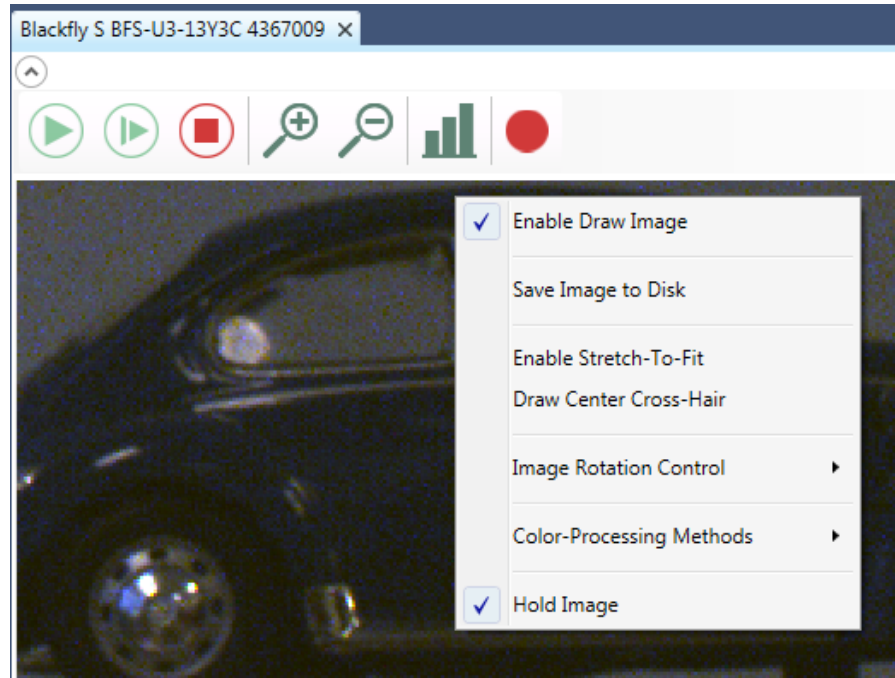
Panes and columns within panes can be resized.

Resize Panes or Columns

2/1/2017
Getting Started with SpinView
8
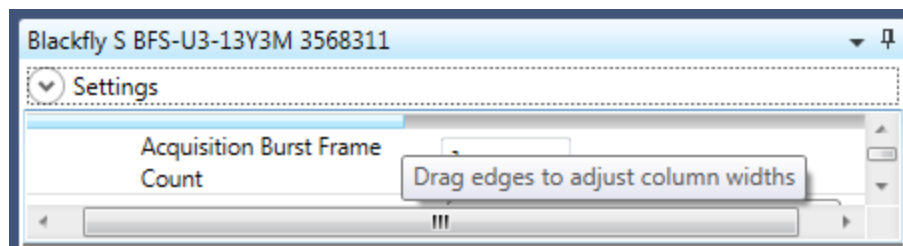
Display Pane

The display pane shows the image being captured as well as information about the image settings.
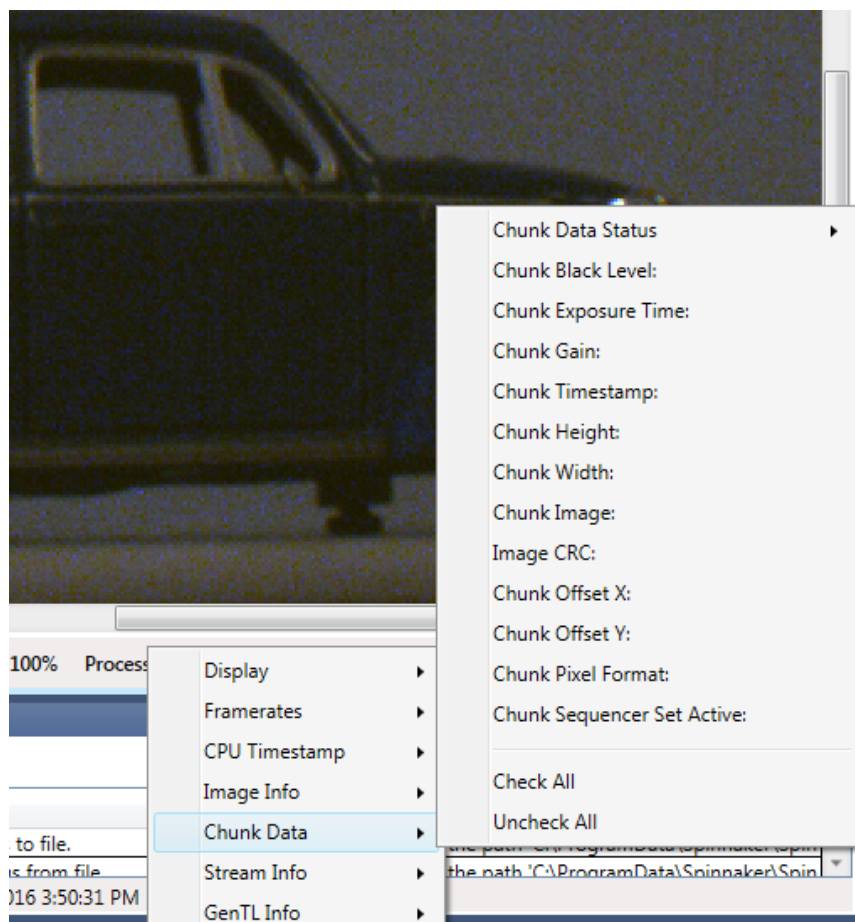
To start image acquisition, double-click the camera or click 🟢▶

Right click on the *image* to access a shortcut menu from which you can save or rotate the image, stretch to fit, draw cross-hair, or change the color processing method.
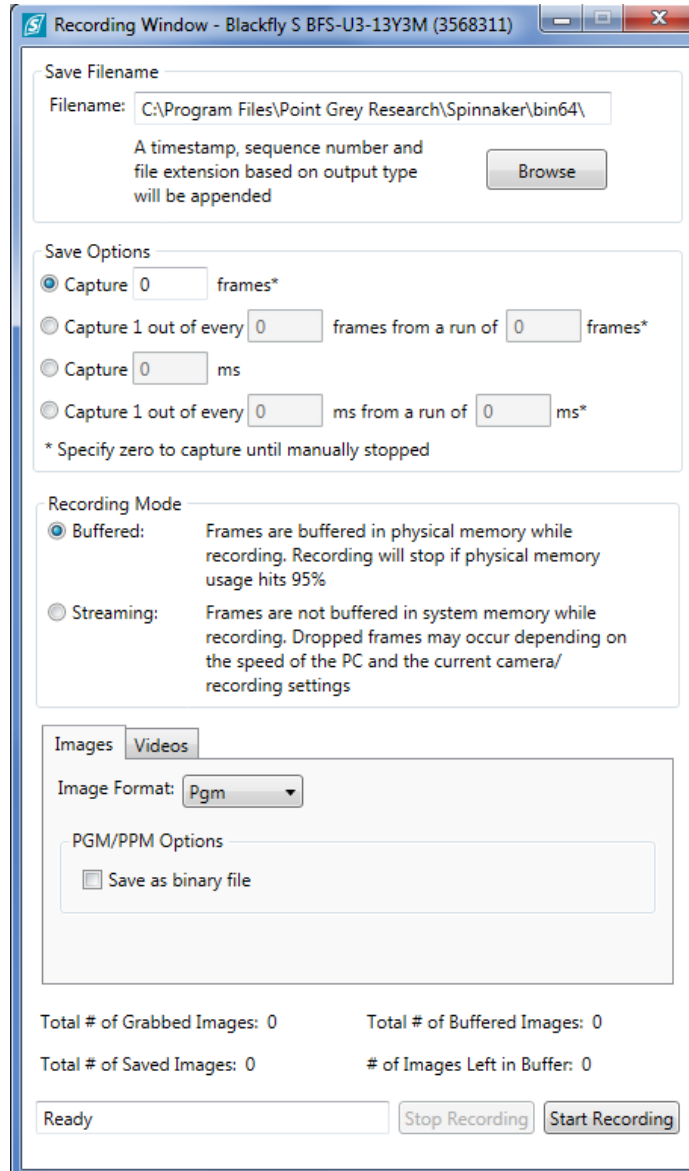

Display Pane with Image shortcut menu

2/1/2017
©2015-2017 FLIR
Integrated Imaging
Solutions Inc.
All rights reserved.

Getting Started with SpinView

9

Right click on the Display Pane *frame* to access a shortcut menu from which you can change the items that appear in the status bar of the display and view image information such as chunk data.

Display Pane Shortcut menu

2/1/2017
©2015-2017 FLIR
Integrated Imaging
Solutions Inc.
All rights reserved.

Getting Started with SpinView
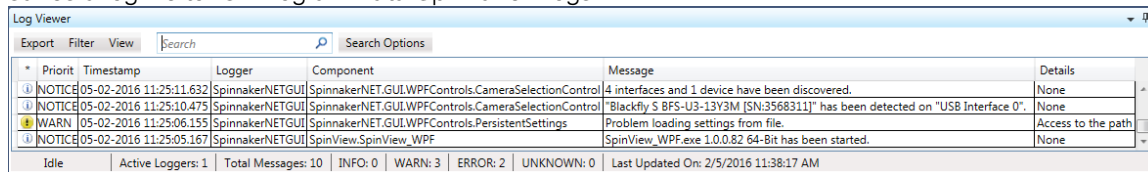
10

To open the recording window, click ⬤

Recording Window

Log Viewer

The Log Viewer displays messages, errors, and warnings. There are five levels of logging:

- Error - failures that are non-recoverable

- Warning - failures that are recoverable without user intervention

- Notice - information about events such as camera arrival or disconnect, camera initialize, camera start/stop, or modification of a feature

- Info - information about recurring events that are generated with every image

- Debug - information that can be used to troubleshoot the system

The Log Viewer menu allows you to export the information, filter, change the display, and search. Spinnaker also saves a log file to: C:\ProgramData\Spinnaker\Logs

Updating Firmware

The latest firmware versions often include significant bug fixes and feature enhancements. To determine the changes made in a specific firmware version, consult the Release Notes.

To update your camera's firmware:

1. Download the firmware file from our Downloads site.

2. In SpinView, from the Device List, right-click on the camera and select Update Device Firmware.

   If you get a Device is Active warning, disconnect the device by closing the Display pane or clicking ✖. Right-click on the camera again.

3. Browse to select the firmware file and click Open.

4. Click Yes to continue.

NOTE: Do not disconnect the camera from the computer during the firmware update process.

2/1/2017
©2015-2017 FLIR
Integrated Imaging
Solutions Inc.
All rights reserved.

Getting Started with SpinView

12