

# How to acquire images in Cognex VisionPro QuickBuild from an uEye camera

## 1. Step: Download the uEye Cognex driver

Make sure to use the latest uEye driver (download: [www.ueyesetup.com](http://www.ueyesetup.com)). Download and install the uEye Cognex driver. The driver can be downloaded here: <http://en.ids-imaging.com/download-ueye-interfaces.html>

The latest driver is Cognex Vision Pro Interface V 4.41 (32-bit and 64-bit).

In IDS Camera Manager, make sure that the uEye Cognex interface has been installed correctly:

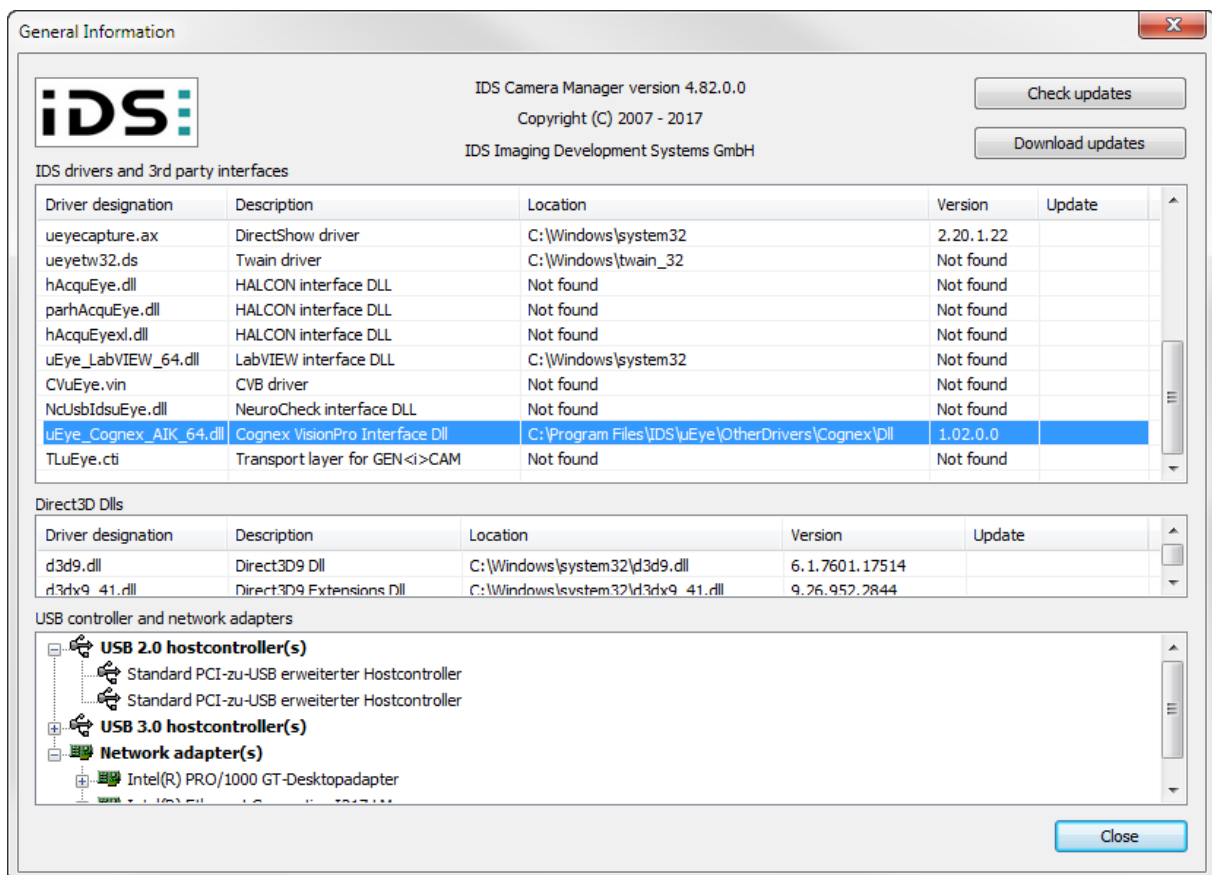


Figure 1: IDS Camera Manager

## 2. Step: Valid CameraID

Take care that each connected camera has got a unique CamID (1 to 254). Please refer to the IDS Camera Manager and change the CameraID if necessary with the button "Camera Information" in IDS Camera Manager.

For more information, please also see the uEye VisionPro manual: [uEye VisionPro manual](#)

## 3. Step: Start VisionPro

Run the Cognex VisionPro QuickBuild as **admin**. (Right-click on the Desktop-Icon → Run as admin (see Figure 2)).

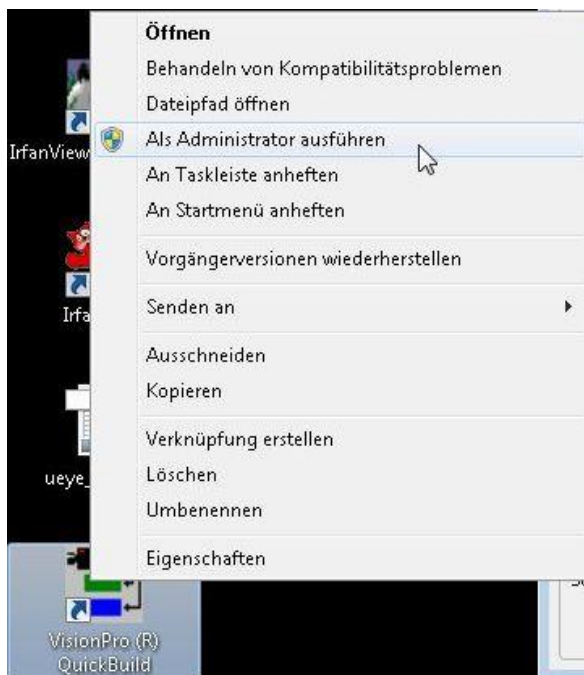


Figure 2: Run QuickBuild as admin

#### 4. Step: Start in QuickBuild

In CognexVisionPro QuickBuild select the image source as shown in Figure 3 by double clicking.

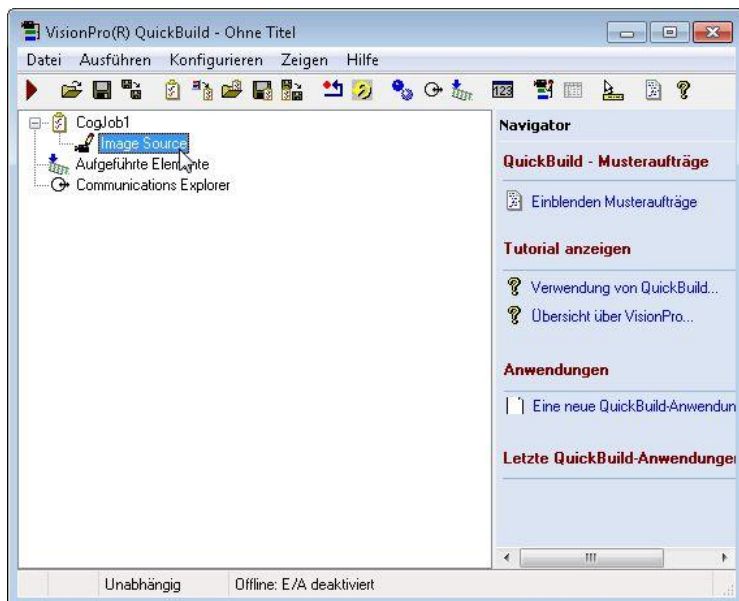
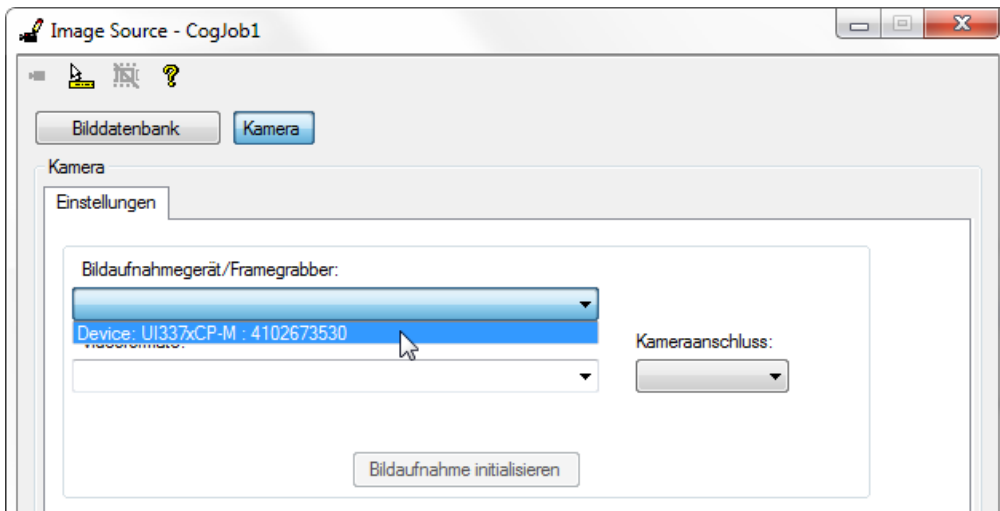


Figure 3: Select an image source

#### 5. Step: Select camera

As image acquisition device select one of the connected cameras.

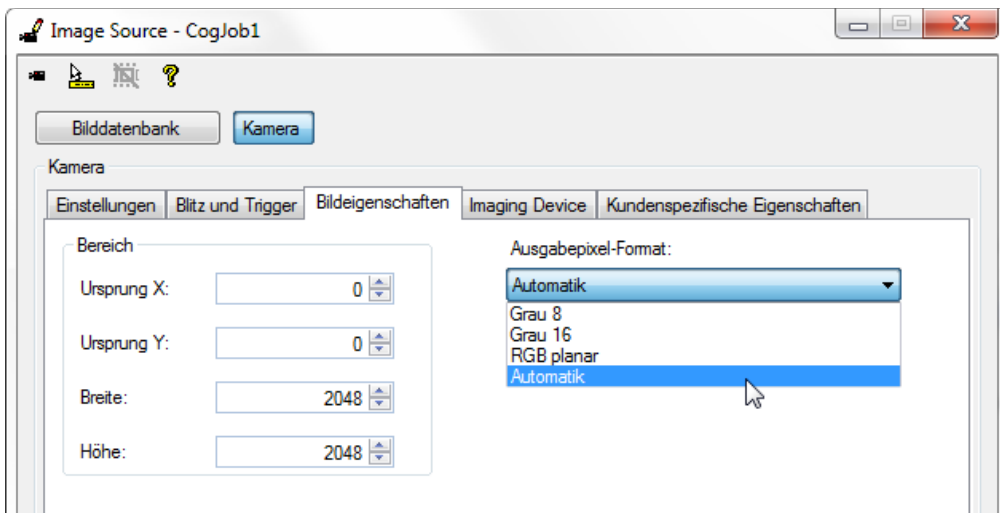


**Figure 4: Connected uEyes**

Click “Initialize Image Acquisition” to set the camera properties and initialize the image acquisition.

**6. Step: Select the image properties**

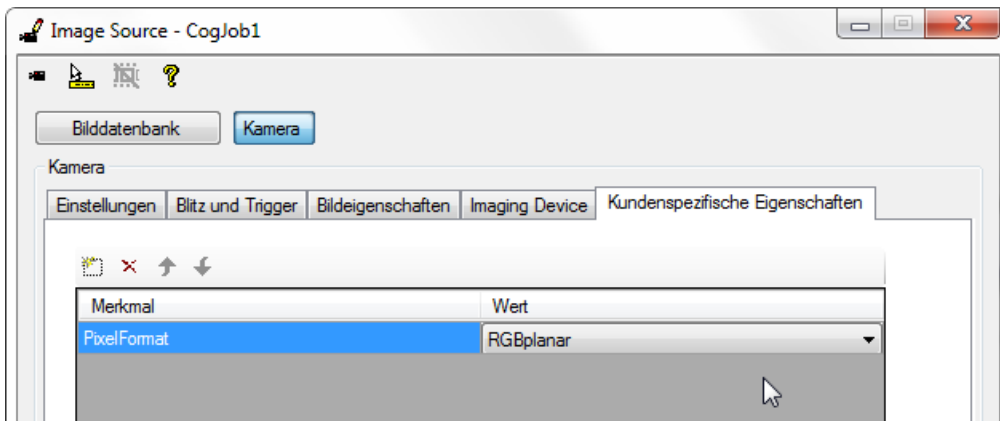
In the register “Image properties” select as “Output Pixel Format” a valid value or leave it as “Automatic”.



**Figure 5: Select the Output image format**

**7. Step: Camera settings**

Set the camera settings in the register “Custom Properties”. Please take care: for a color camera select “RGBplanar” as PixelFormat (see Figure 6).

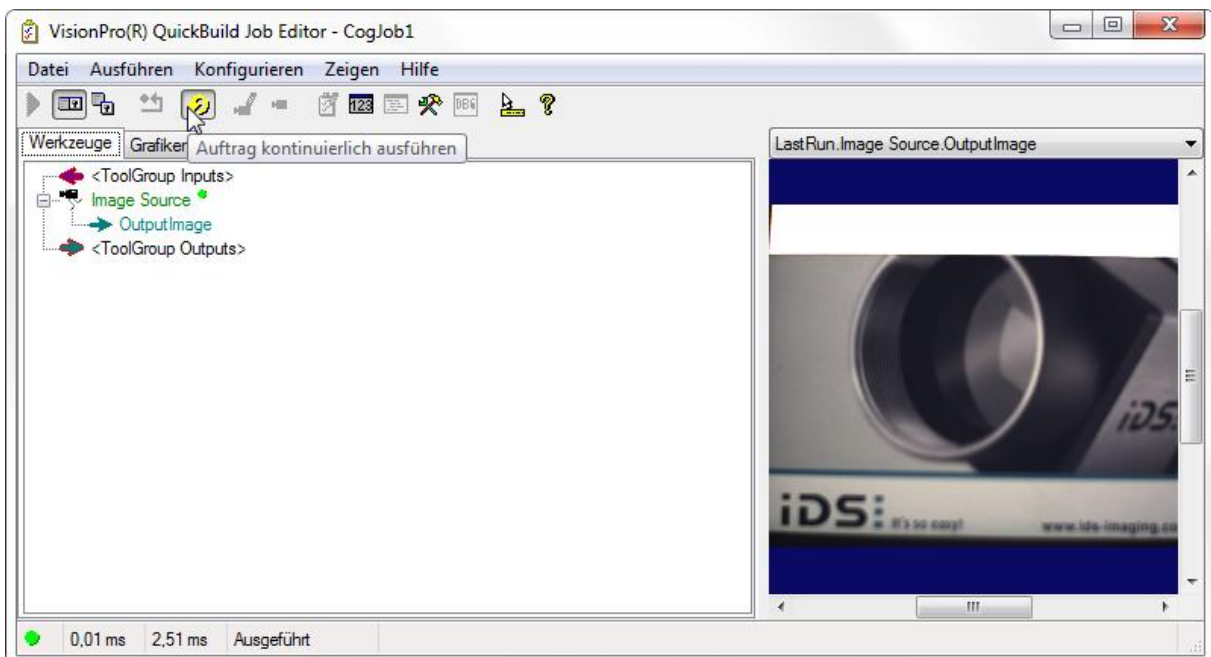


**Figure 6: Select the PixelFormat**

Please take care that the PixelFormat and the Output Image Format is not the same. For more information, please also have a look at the uEye Cognex Manual: [https://en.ids-imaging.com/manuals/uEye\\_SDK/EN/uEye\\_VisionPro\\_Manual\\_4.80/videoformat.htm](https://en.ids-imaging.com/manuals/uEye_SDK/EN/uEye_VisionPro_Manual_4.80/videoformat.htm).

## 8. Step: Acquire Images

Return to the Job editor and acquire images (see Figure 6).



**Figure 7: Acquire Images**