China Daheng Group, Inc. Beijing Image Vision Technology Branch

Operating a Mercury Gige Camera with visionpro

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DAHENG IMAGING 大恒图像

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Contents

Operating a Mercury Gige and USB3.0 Camera with visionpro.....1

1. Introduction 1

2. Requirements 2

3. Operating a MERCURY Gige Vision Camera with visionpro 3

4 Revision History 10

1. Introduction

The MERCURY series camera is DAHENG IMAGING's mature area scan industrial digital camera, featuring mega pixels resolution, high definition, extremely low noise, perfect color conversion and compact design. The MERCURY family cameras include Gige cameras USB2.0 cameras and USB3.0 cameras and so on.

Thanks to the extremely compact (29mm×29mm×29mm), robust metal housings and locking screw connectors, The MERCURY cameras can secure the reliability of cameras deployed in harsh environments.

VisionPro Vision Software is a .Net-based visual tool for all hardware platforms including FireWire and CameraLink. The power and flexibility of this advanced vision tool combined with a graphical development environment that can be easily set up

This article explains how to access a Mercury Network card camera in Cognex VisionPro and how to configure the camera's features

2. Requirements

In this document the following software and hardware is needed:

Visionpro 8.2 SR1

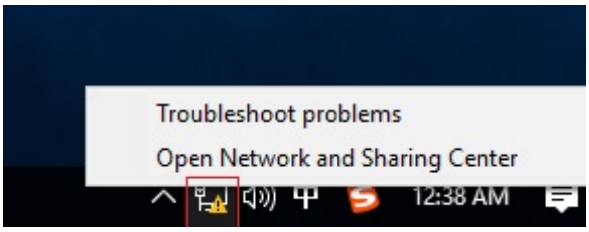
MER_Setup_en.exe for 1.0.1707.8261

Windows 10 Pro x64

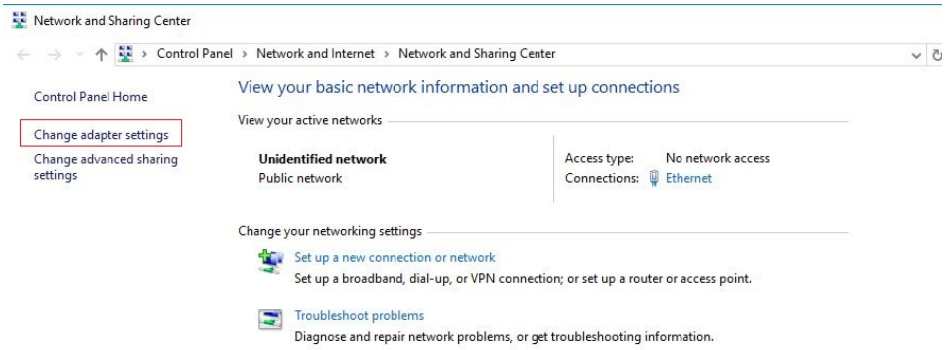
Test camera: MER-130-30UM MER-503-36U3C MER-125-30GC

3. Operating a MERCURY Gige Vision Camera with visionpro

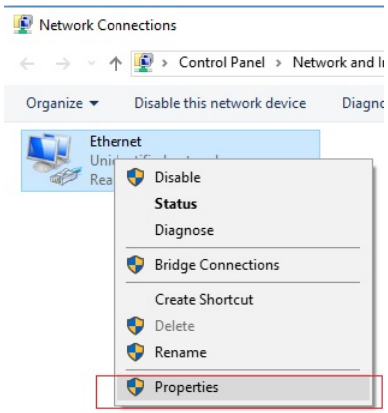
1) First install the Mercury camera driver. After the driver installation is completed, Configure network adapter , Right click **Network** and select ***Open Network and Sharing Center***



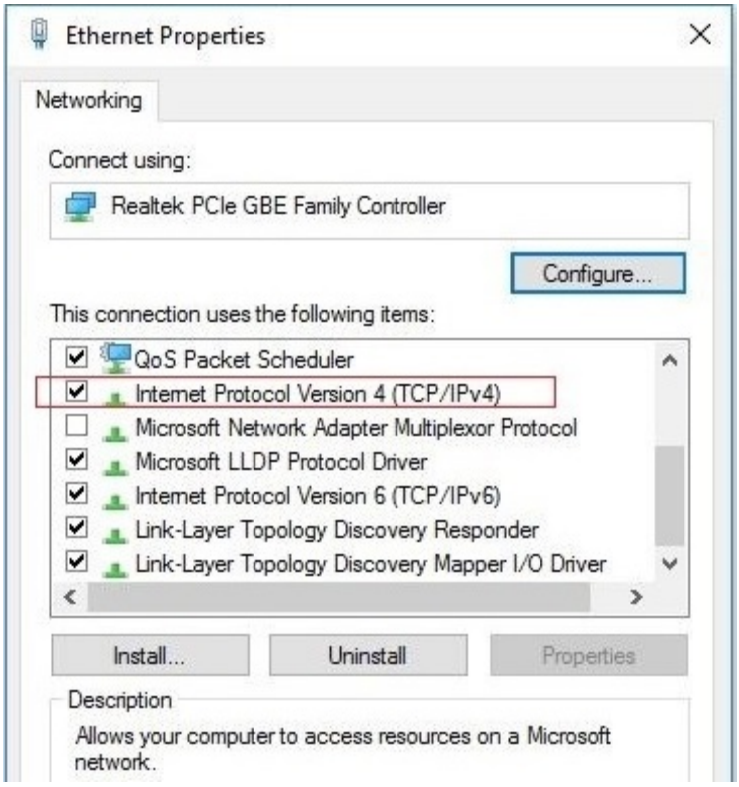
2) Click Change adapter settings



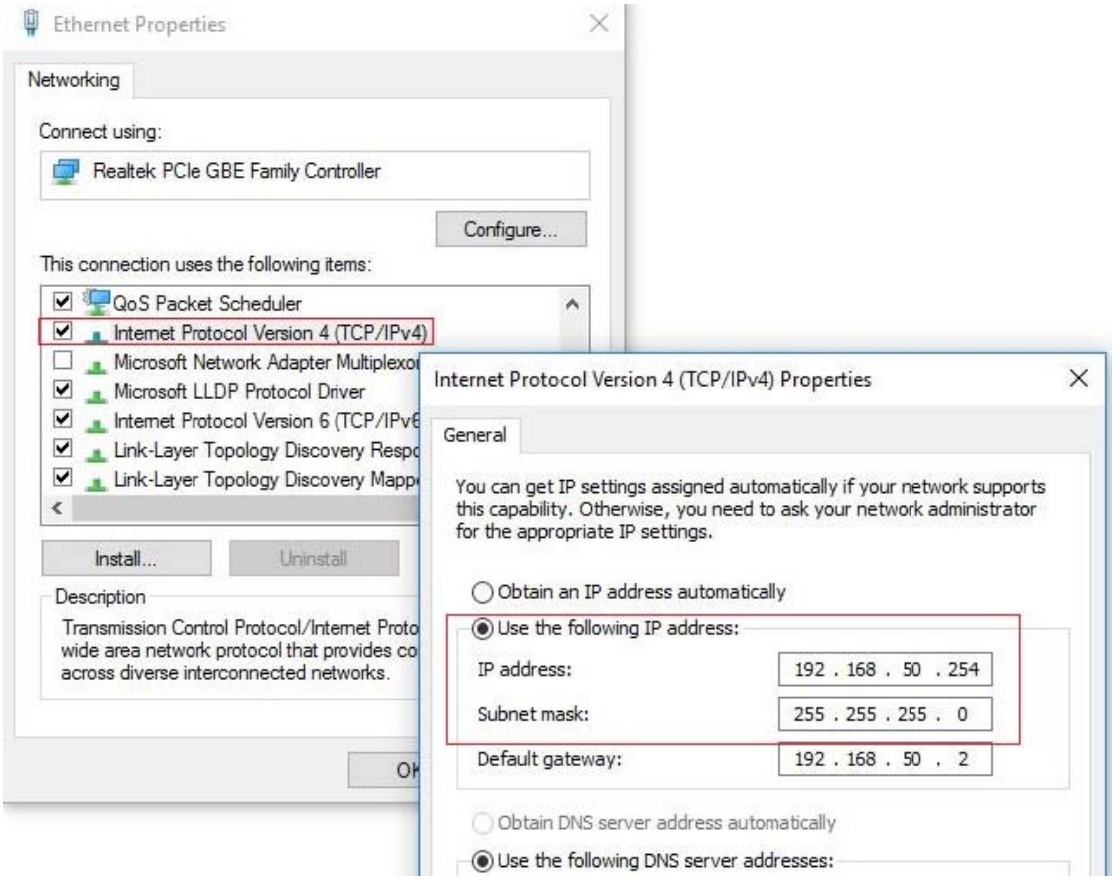
3) Find the corresponding network in the **Network Connections** dialog box, right-click and select Properties.



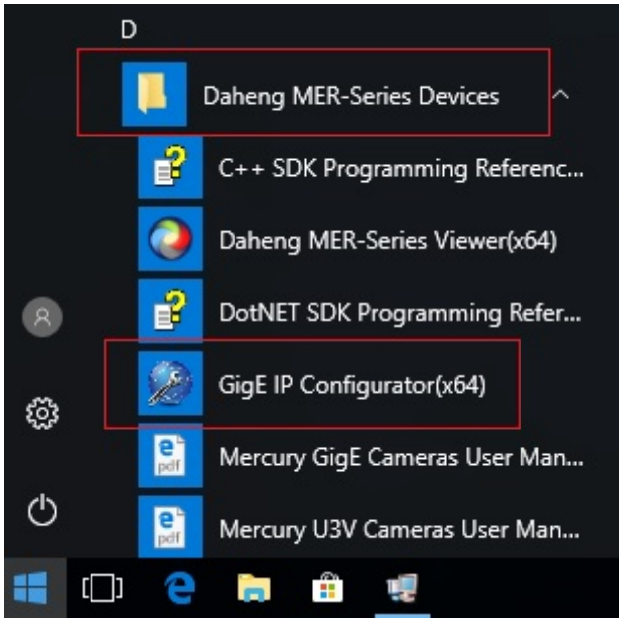
4) Select **TCP/IPV4**



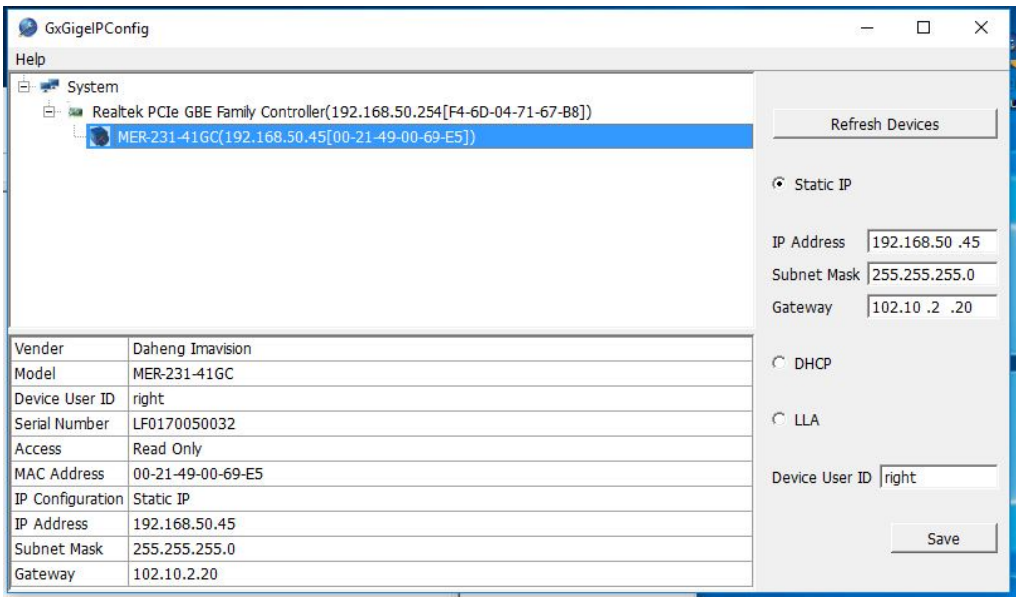
5) After enter Use the following IP address, configure the network adapter IP with Use the following IP address .



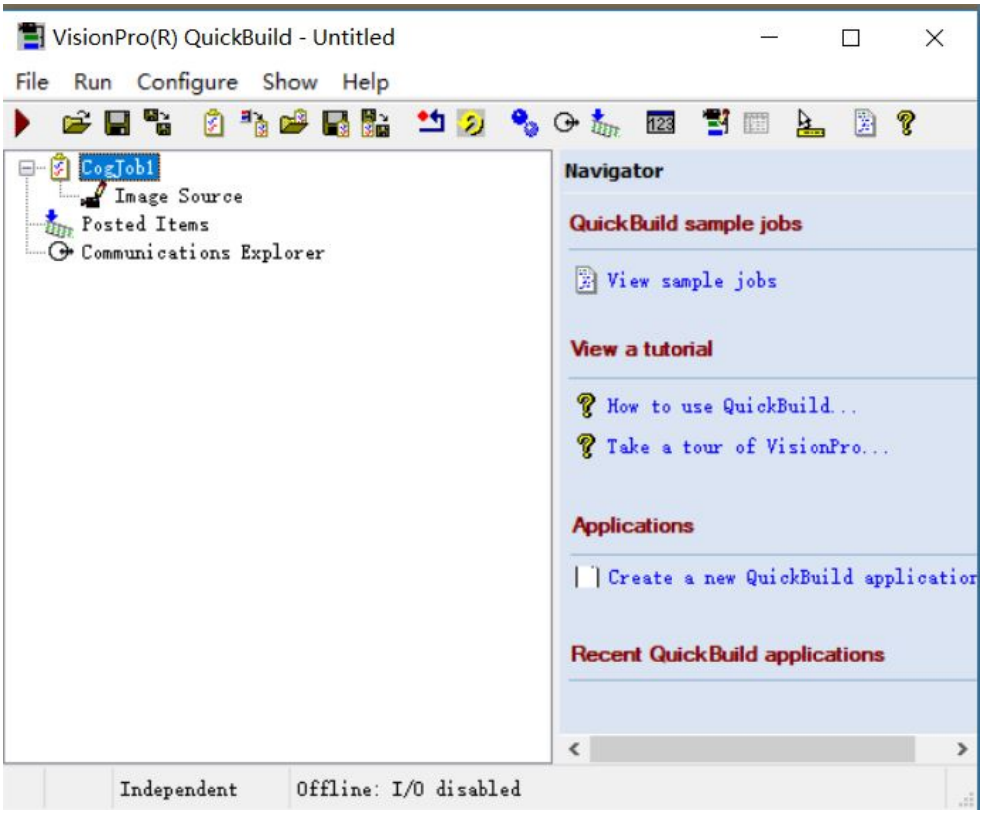
6) Configure the camera's IP after finishing the network card IP configuration . Find **Gige IP Configurator** in the **Daheng MER-Series Devices** folder in the start menu.



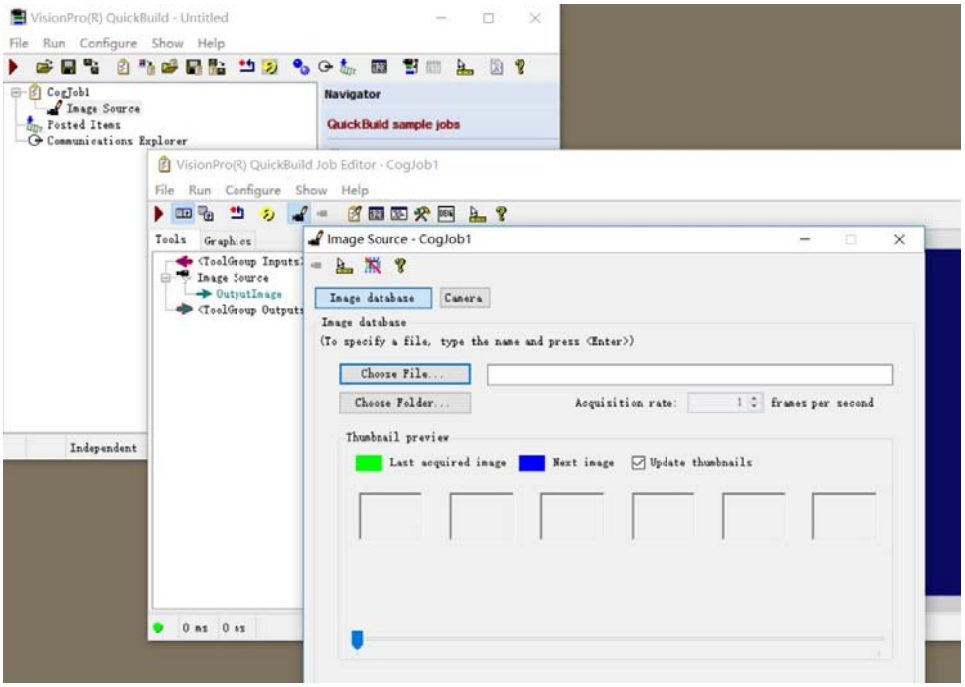
7) In the **GxGigeIPConfig** you can see the camera, select **Static IP** to configure the camera IP, and ensure that the camera IP and network card IP are in the same network segment , then save the configuration after completion



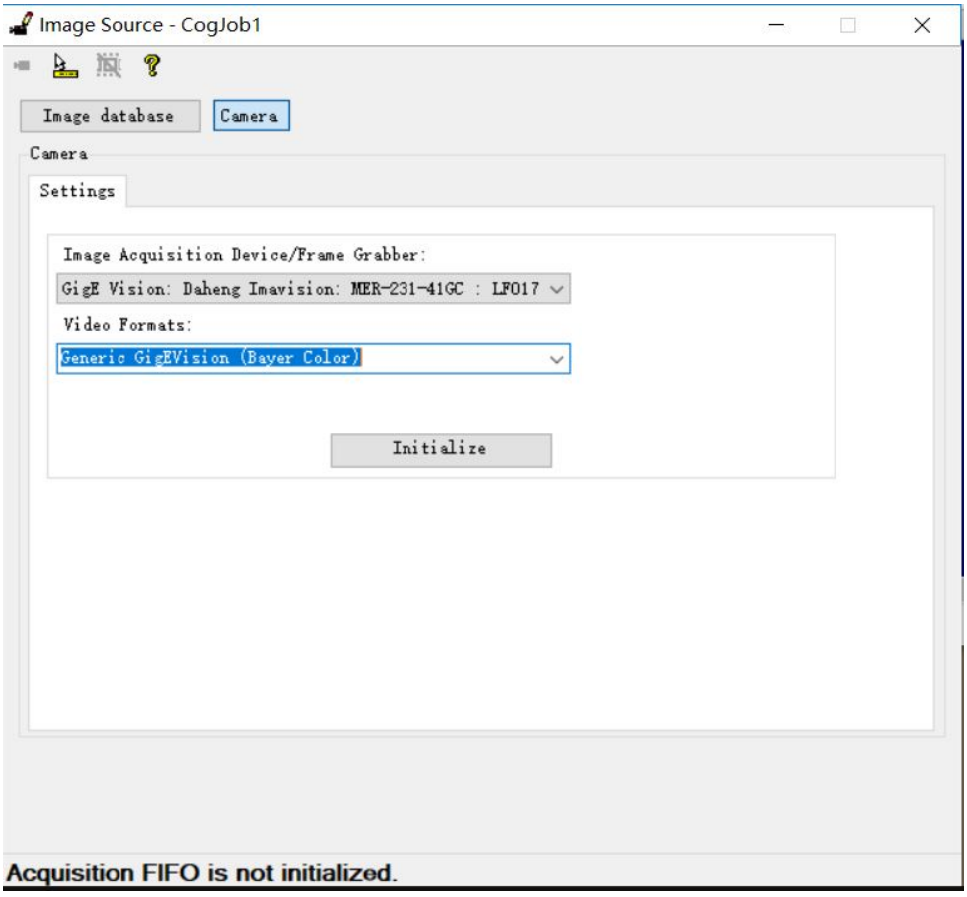
8) After installing VisionPro, open the software and the following interface appears



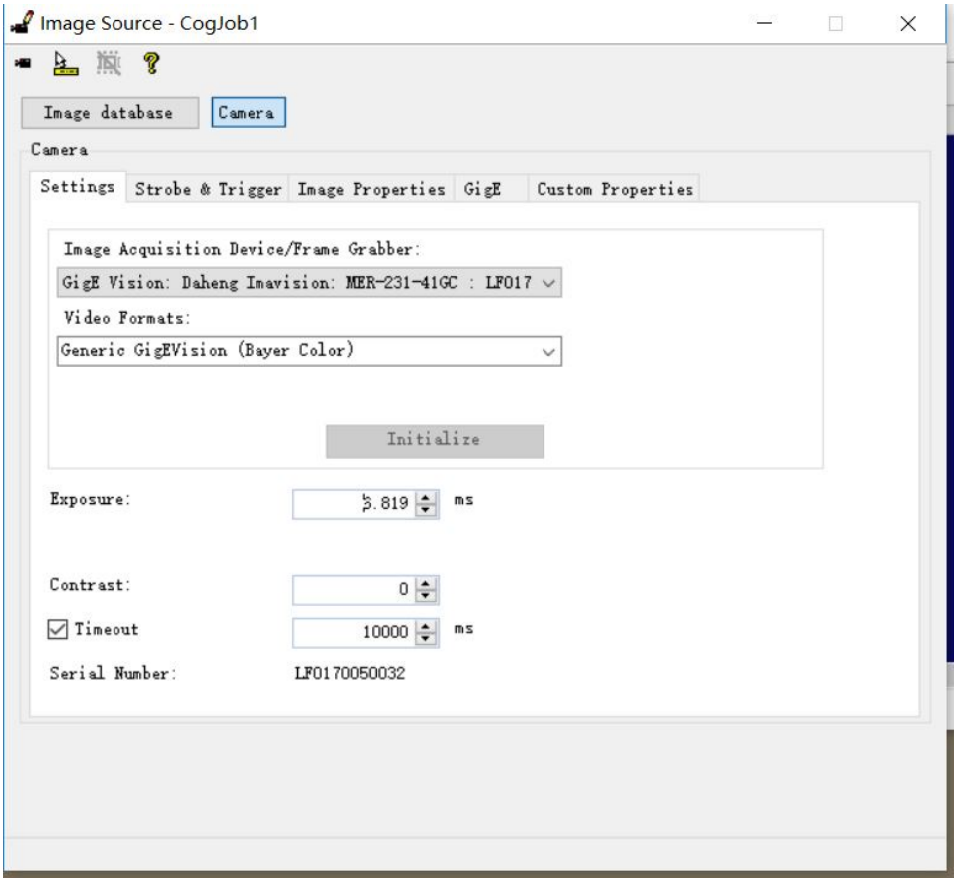
9) Double-click **Image Source**.The **Image Source** dialog opens.



10) Click the **Camera** button. The drop-down list **Image Acquisition Device/Frame Grabber** lists all cameras connected to the computer.

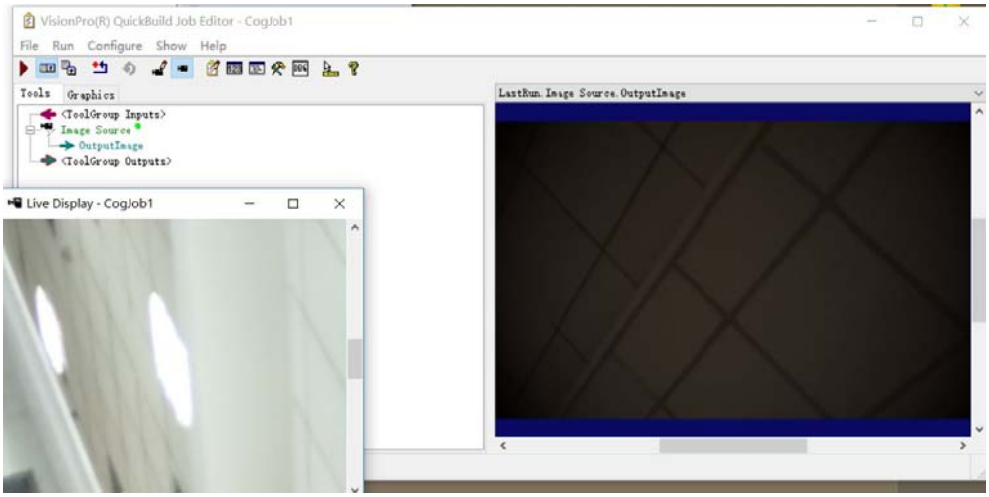


11) Select the desired camera from the list. Click **Initialize Acquisition**. You can now configure the camera in VisionPro.



12) To open a live display, click the camera icon in the toolbar.
A separate window opens showing a live display.

13) You can also click on the **Run Job Once** button on the left side of the toolbar in the image resource dialog box to capture images in a single frame.



14) Once the camera is accessible in visionpro, you can configure its features. Basic features are available on the **Settings** and the **Image Properties** tabs in the **Image Source** dialog.

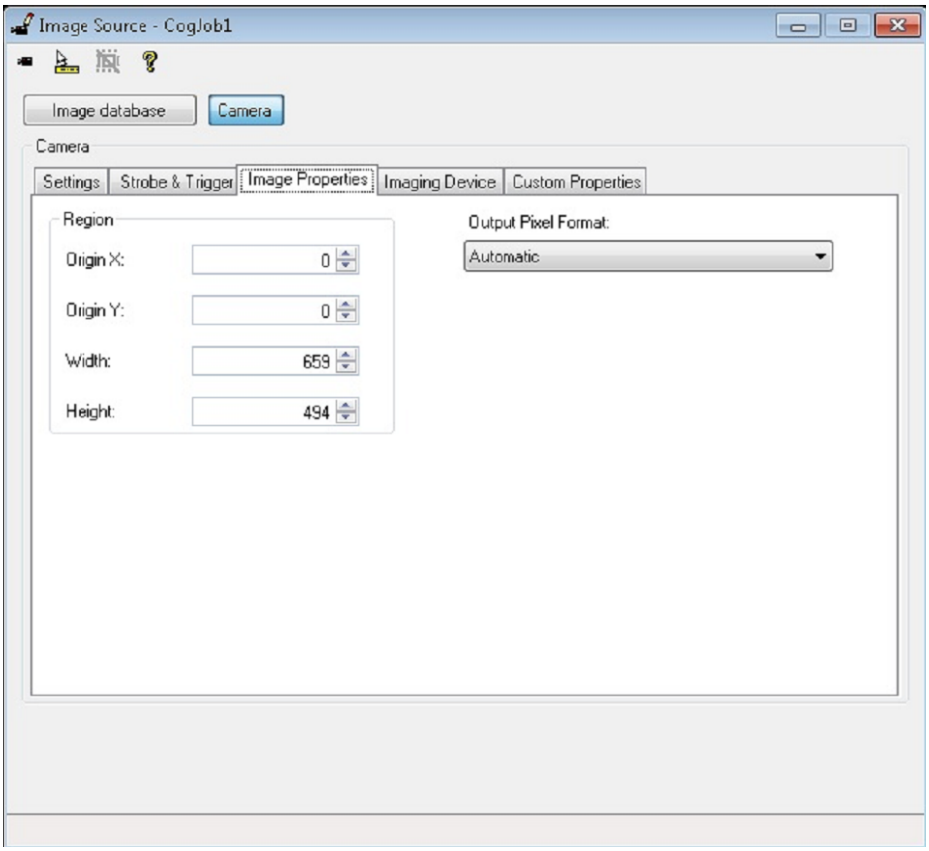


Image Source - CogJob1
Image database
Camera
Camera
Settings
Strobe & Trigger
Image Properties
Imaging Device
Custom Properties
Region
Origin X:
0
Origin Y:
0
Width:
659
Height:
494
Output Pixel Format:
Automatic

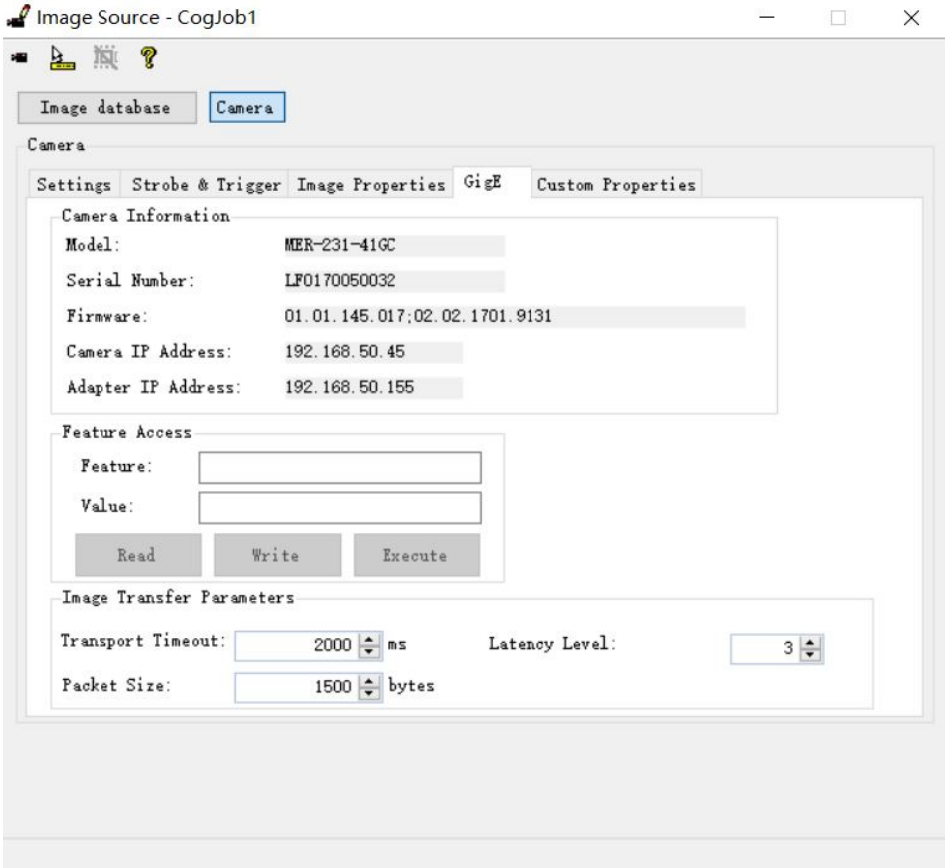


Image Source - CogJob1
Image database
Camera
Camera
Settings
Strobe & Trigger
Image Properties
GigE
Custom Properties
Camera Information
Model:
MER-231-41GC
Serial Number:
LF0170050032
Firmware:
01.01.145.017;02.02.1701.9131
Camera IP Address:
192.168.50.45
Adapter IP Address:
192.168.50.155
Feature Access
Feature:
Value:
Read
Write
Execute
Image Transfer Parameters
Transport Timeout:
2000
ms
Latency Level:
3
Packet Size:
1500
bytes

4 Revision History

No.	Version	Changes	Data
1	V1.0.0	Initial release	2018-0413