

**Application Note**

# **PvAPI: Saving and Loading Camera Attributes with a Text File**

## Prerequisites

The following items are required:

- Computer with Windows 7, Vista, XP, Linux, QNX, or Mac OS X operating system
- Allied Vision GigE camera
- GigE network card and GigE cable

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For hardware selection see application note **Hardware\_Selection\_-for\_Allied\_Vision\_GigE\_Cameras.pdf**:



<http://www.alliedvision.com/en/support/technical-papers-knowledge-base>

- PvAPI SDK

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See software downloads for PvAPI SDK download:



<http://www.alliedvision.com/en/support/software-downloads>

- Visual Studio C++ or an equivalent integrated development environment (IDE)

## Instructions

1. Open the **CamSetup** folder in the GigESDK **examples** directory. This folder contains the source code for the CamSetup utility.

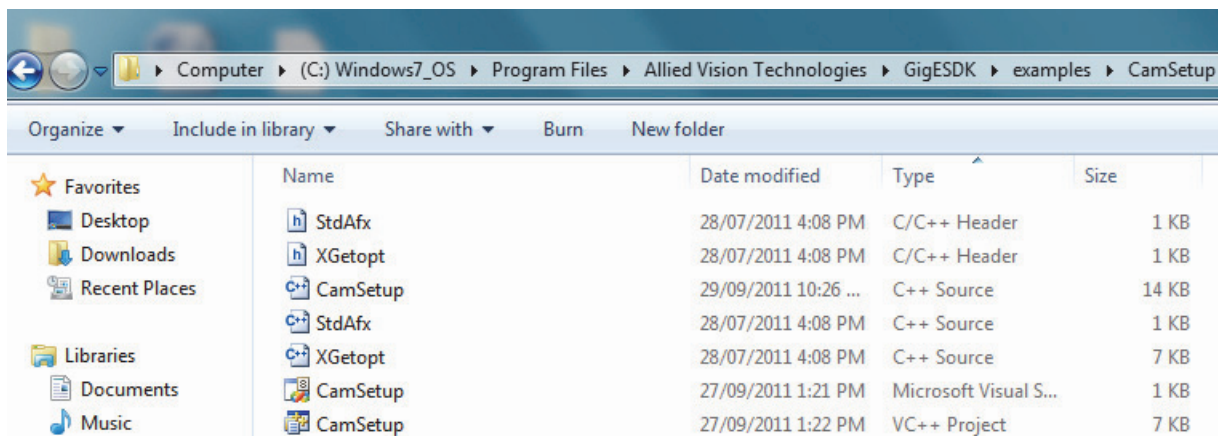


Figure 1: Source code files in **CamSetup** folder

2. Microsoft Visual C++ users: open the VC++ project file—**CamSetup.vcproj**. Alternative IDE users create a project using the **CamSetup.cpp**, **PvAPI.h**, and other required header files (see `#include` statements in **CamSetup.cpp**).

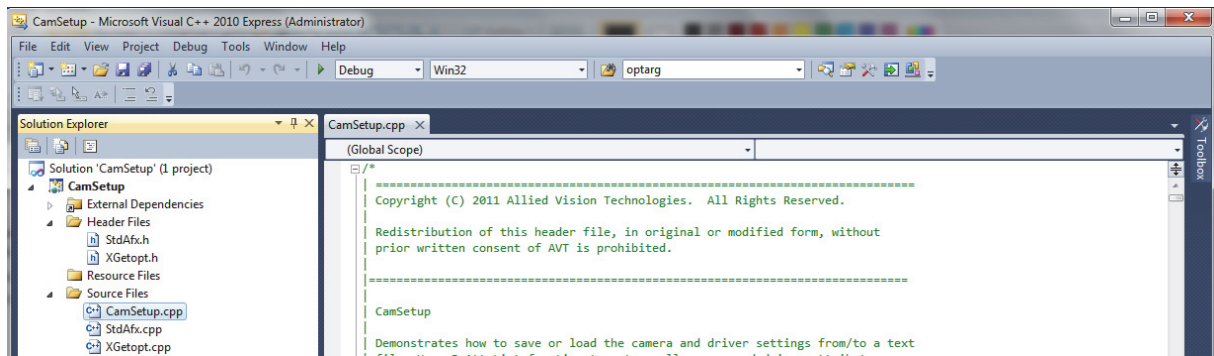


Figure 2: CamSetup utility source code opened in Microsoft Visual C++

3. Compile the source code for the CamSetup utility to generate an application file.

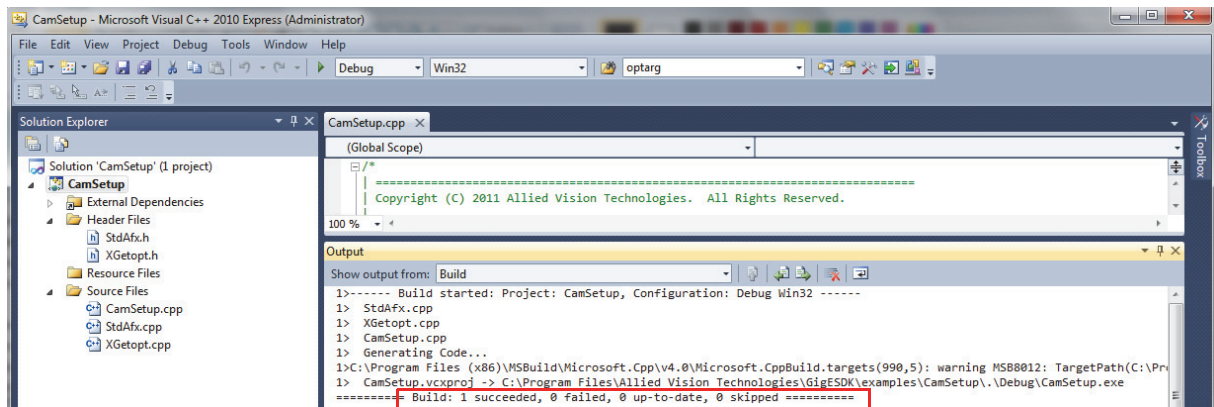


Figure 3: Result of successful compilation of Camsetup source code

4. Locate the generated application file—**CamSetup.exe** in GigESDK **bin-pc** directory.

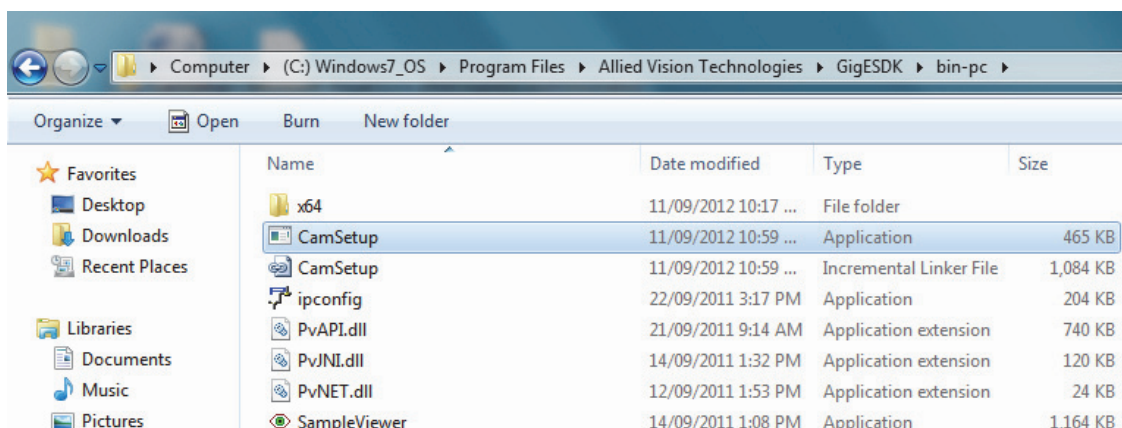


Figure 4: Generated CamSetup application file in the **bin-pc** directory

5. Connect your Allied Vision GigE camera to the computer.

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For more information, see the GigE Installation Manual:

[http://www.alliedvision.com/fileadmin/content/documents/products/cameras/various/installation-manual/GigE\\_Installation\\_Manual.pdf](http://www.alliedvision.com/fileadmin/content/documents/products/cameras/various/installation-manual/GigE_Installation_Manual.pdf)

6. Launch DOS prompt and access the **bin-pc** directory.

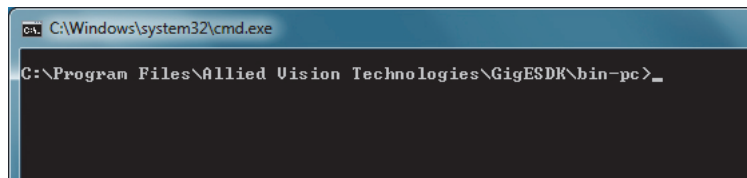


Figure 5: Working directory in DOS prompt

7. Determine camera IP by executing **IPConfig.exe** in **bin-pc** directory.

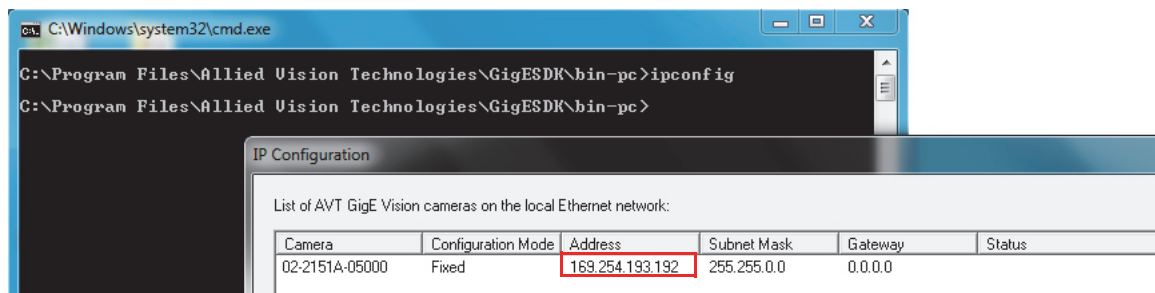


Figure 6: IP configuration of the GigE camera

8. Use the following commands to save/load the camera parameters to/from a text file :

- For saving camera attributes to a text file, enter:

`CamSetup -i <CAMERA IP ADDRESS> -s <FILENAME.TXT>`

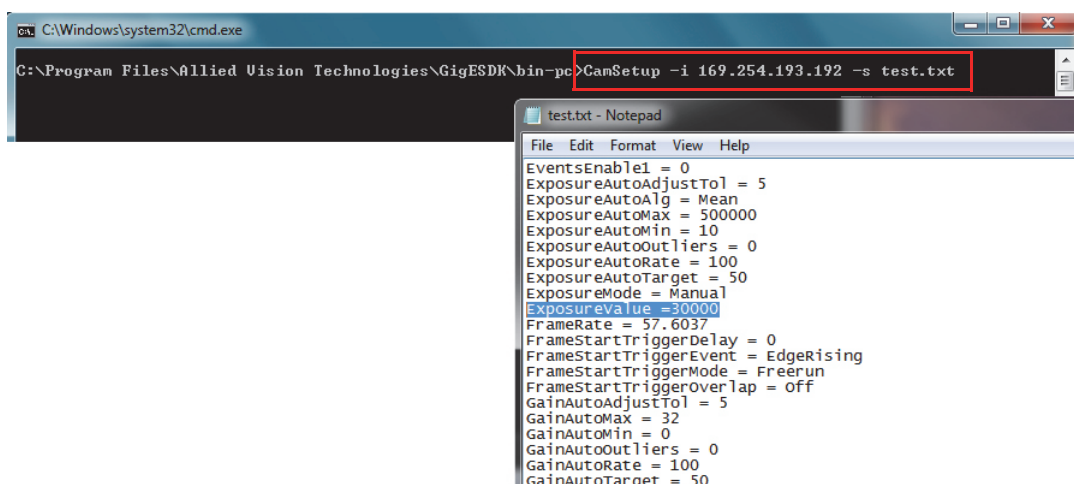
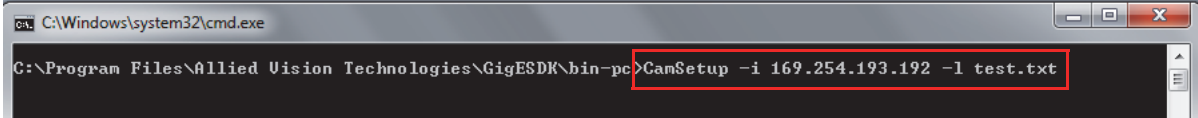


Figure 7: Camera attributes saved in **test.txt** file

- For loading camera attributes from a text file, enter:

CamSetup -i <CAMERA IP ADDRESS> -l <FILENAME.TXT>



```
C:\Windows\system32\cmd.exe
C:\Program Files\Allied Vision Technologies\GigESDK\bin-pc>CamSetup -i 169.254.193.192 -l test.txt
```

Figure 8: Command to load camera attributes from **test.txt** file

**Note**

The text file is saved to / loaded from the same directory as **Camsetup.exe**.



For technical support, please contact [support@alliedvision.com](mailto:support@alliedvision.com).

For comments or suggestions regarding this document, please contact [info@alliedvision.com](mailto:info@alliedvision.com).

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