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## **See3CAM\_12CUNIR**

## **e-CAMView Installation Manual**

Revision 1.2

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## Contents

1	Revision History .....	3
2	Introduction .....	4
3	Scope .....	4
4	Description.....	4
5	Installation of e-CAMView .....	5
5.1	Step 1 – Welcome screen .....	5
5.2	Step 2 – Installation path selection .....	6
5.3	Step 3 – Installation confirmation .....	7
5.4	Step 4 – Installation process .....	8
5.5	Step 5 – Installation complete .....	9
6	Launching e-CAMView Application .....	10
7	Conclusion.....	10



## See3CAM\_12CUNIR

### 1 Revision History

Rev No	Date	Major Changes	Author
Initial Draft	08-September-2014	Initial Draft	Bhanu
1.1	08-September-2014	Added Changes	Shanthakumar
1.2	08-October-2014	Changed Product Name	Bhanu



## 2 Introduction

The See3CAM\_12CUNIR is a 1.3Mega pixel, UVC Compliant, USB3.0 SuperSpeed camera from e-con Systems, a leading embedded Product Design Services company which specializes in the advanced camera solutions. The See3CAM is a new family of USB3.0 SuperSpeed camera products launched by e-con.

The See3CAM\_12CUNIR is an electronic rolling shutter, 1.3 Megapixel Monochrome Camera that is based on the Aptina AR0130 CMOS image sensor. This See3CAM\_12CUNIR is a UVC-compliant USB3.0 SuperSpeed Camera that is also backward compatible with USB2.0 host ports and does not require any special camera drivers. The See3CAM\_12CUNIR is capable of supporting 720p60 (HD) , 1280x960 resolution at 45 fps and 640x480 binned at 45 fps with the pixel depth of 12-bit monochrome data when interfaced to a USB3.0 host port. The AR0130 CMOS image sensor used in this See3CAM\_12CUNIR is an Electronic Rolling Shutter, 1/3" optical form-factor, CMOS Image sensor from Aptina and the See3CAM\_12CUNIR is supported with CS-mount lens holder for enabling the users to choose the lens as per their requirements.

e-con provides a sample DirectShow application, called e-CAMView, along with the See3CAM\_12CUNIR camera. The e-CAMView is a typical DirectShow camera application, but customized to demonstrate some of the features of See3CAM\_12CUNIR. This document describes how to install the e-CAMView application.

## 3 Scope

e-con provides a sample DirectShow application, called e-CAMView, along with the See3CAM\_12CUNIR camera. The e-CAMView is a typical DirectShow camera application, but customized to demonstrate some of the features of See3CAM\_12CUNIR . This document describes how to install the e-CAMView step by step on the host PC and how to launch e-CAMView application.

## 4 Description

The See3CAM\_12CUNIR is a USB 3.0 camera capable of streaming camera frames 1280x 720 @ 60 fps, 1280x960 @ 45 fps and 640x480 binned from 1280x960 @ 45 fps. It is a Electronic Rolling shutter camera and the camera can synchronize the exposure of all the pixels on receiving an external trigger. It also supports all the features with a USB 2.0 fallback. In USB 2.0, See3CAM\_12CUNIR can stream in 1280 x 720 resolution @ 12 fps and in 1280 x 960 resolution @ 9 fps and 640 x 480 resolution binned from 1280 x 960 @ 30fps.

The See3CAM\_12CUNIR has two major camera controls namely,

- Brightness
- Exposure (both manual and automatic)

There are two operating modes for See3CAM\_12CUNIR, they are

- Master mode.
- Trigger mode.

The sample application e-CAMView for See3CAM\_12CUNIR can demonstrate the controls supported, switching between preview resolutions, capturing still images and operating modes.

The next section starts with the preliminary steps involved in installation of the e-CAMView software and launching the application.



## 5 Installation of e-CAMView

The e-CAMView application can be installed using the installer file **Setup.msi** in the compact disk provided by the e-con Systems. The e-CAMView application installer can be also obtained by mailing to e-con Systems. This is a sample DirectShow application used to demonstrate some of the features of the See3CAM\_12CUNIR Camera. The e-CAMView installation steps are explained in detail with the screenshots.

### 5.1 Step 1 – Welcome screen

As a first step, double click on the e-CAMView installer file – Setup.msi. This will show the Welcome screen as below. Click **Next** button to continue the installation.

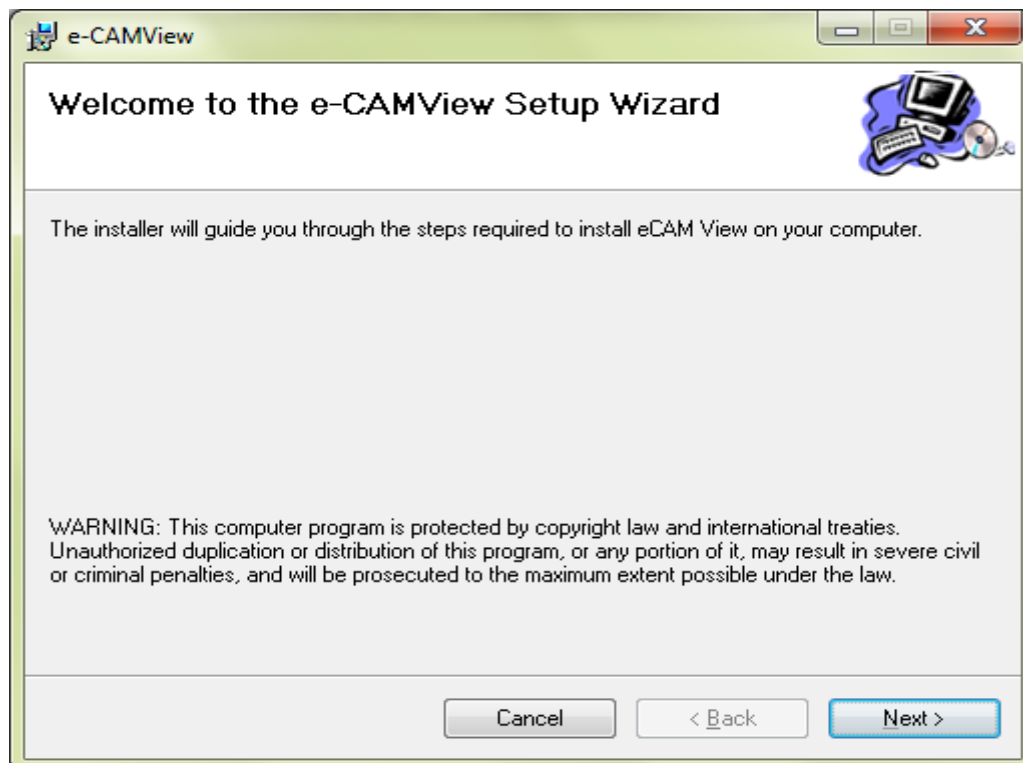


Figure 1: e-CAMView Setup Dialog



## 5.2 Step 2 – Installation path selection

Click the Browse button to change the default installation folder. You can also change privileged users to whom this application needs to be installed. Click **Next** button to continue.

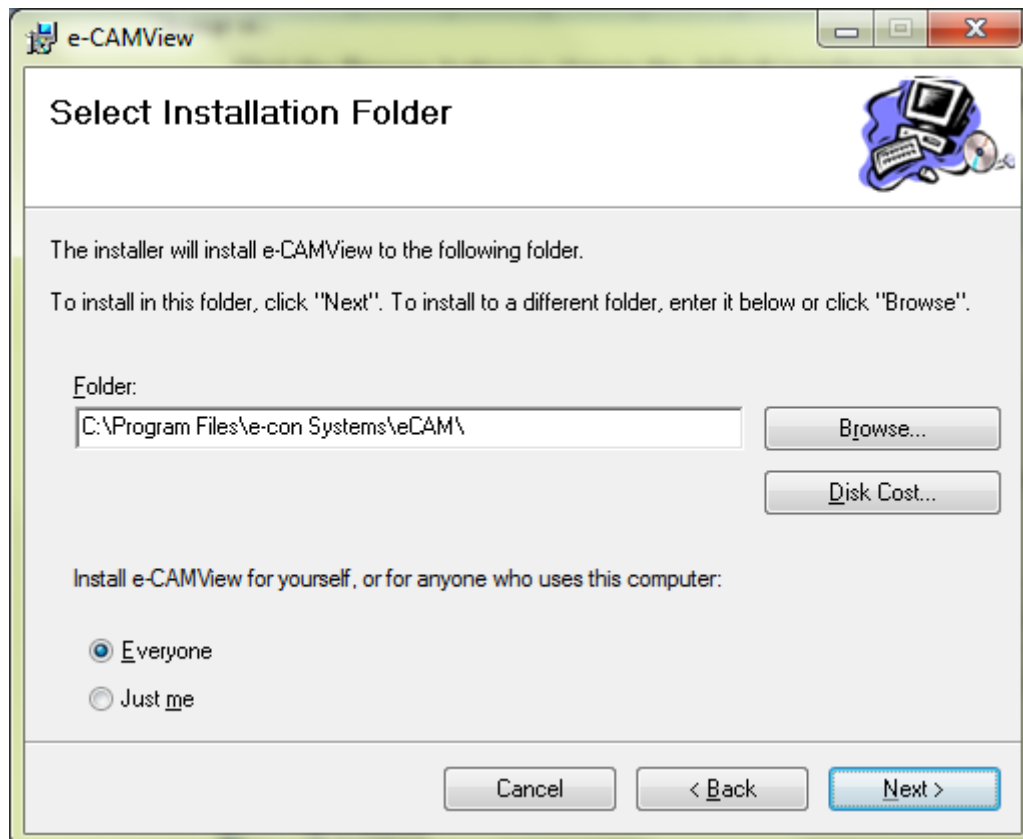


Figure 2: Installation path selection dialog



### 5.3 Step 3 – Installation confirmation

Click **Next** button to continue the e-CAMView installation.

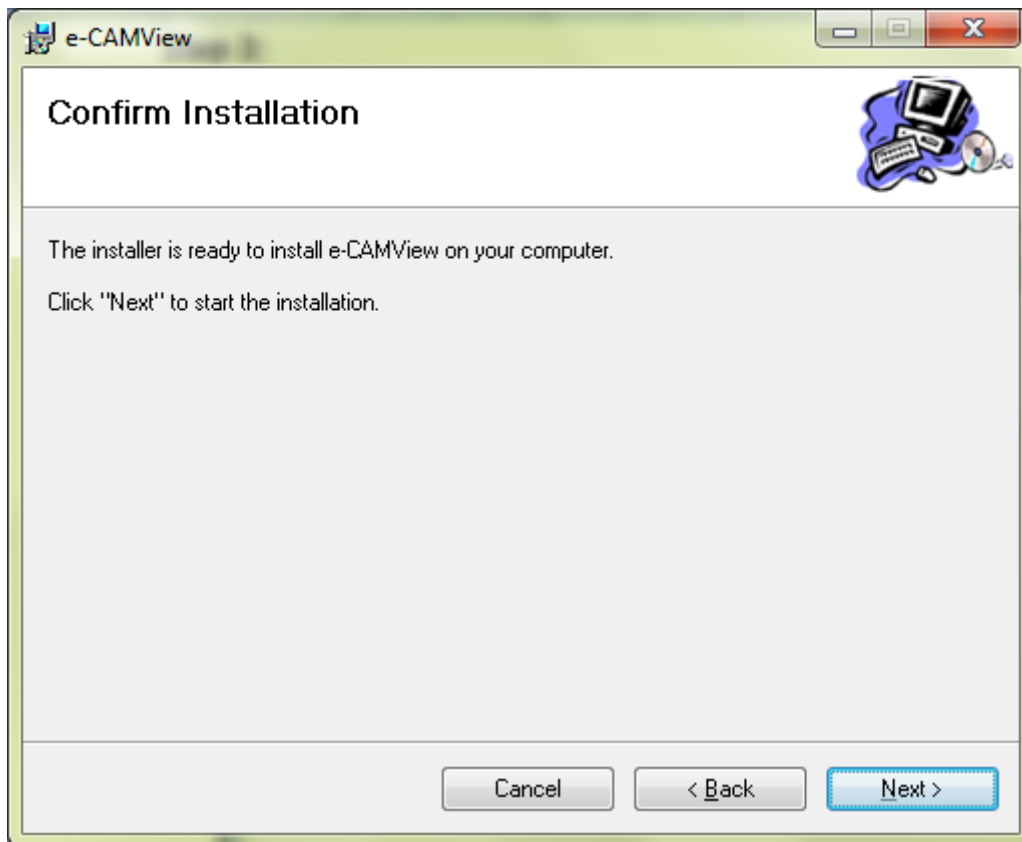
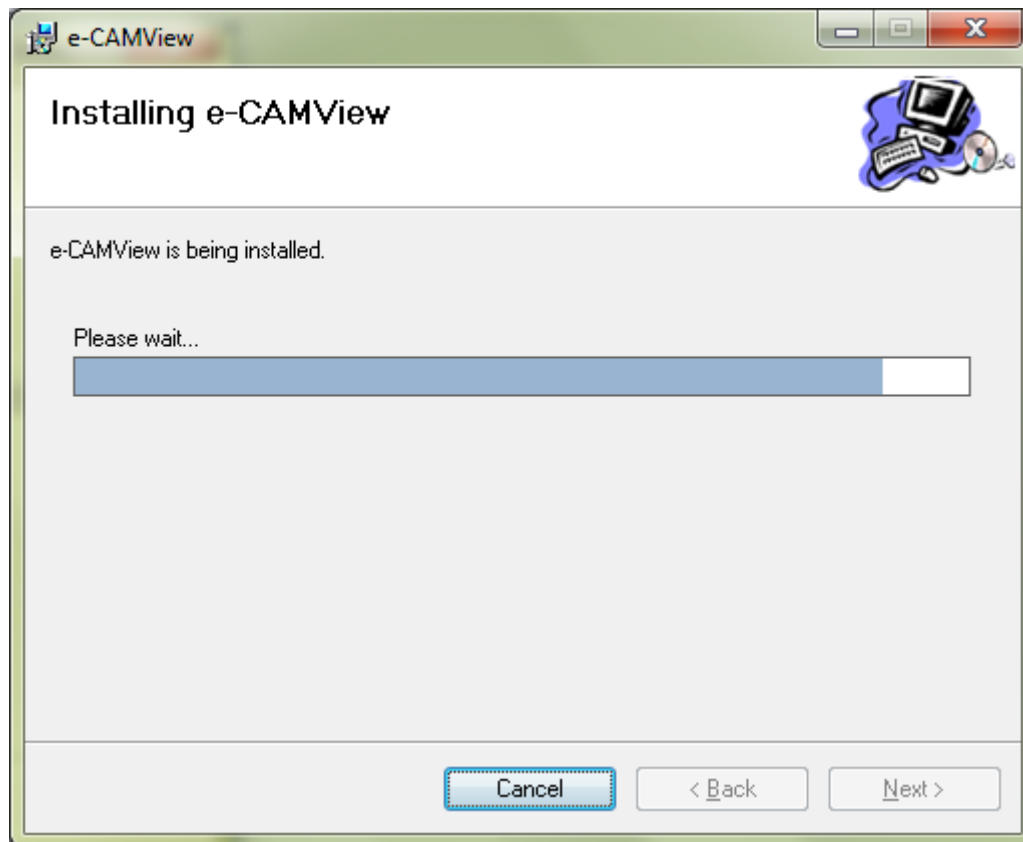


Figure 3: Confirm installation dialog



## 5.4 Step 4 – Installation process

This is the final stage of installation. During this stage, all required files are copied to specified location.



**Figure 4: Installation process dialog**

**Note:** when the installation process window appears as in step 4, a “user account control” dialog box appears which will prompt the user to choose “Yes” or “No” for proceeding. Choose “yes” to continue installation process.





## 5.5 Step 5 – Installation complete

Click **Close** button to exit the setup wizard after the completion of the installation.

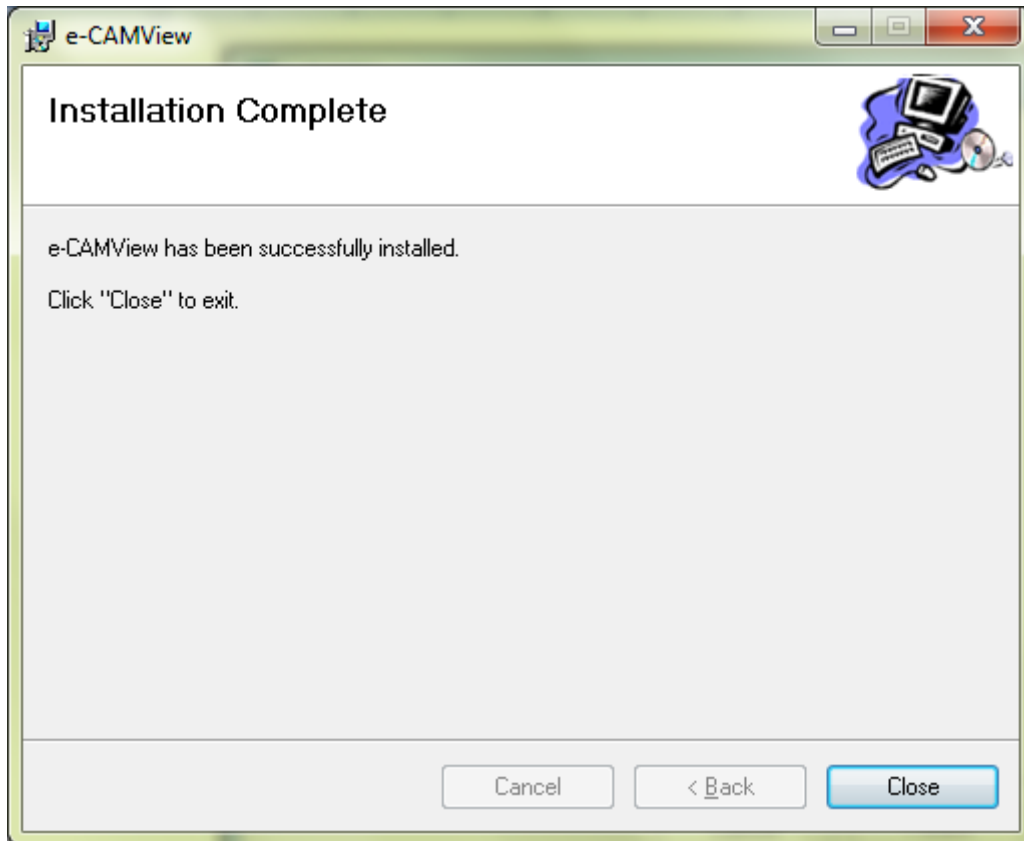


Figure 5: Installation complete dialog



## 6 Launching e-CAMView Application

To launch the video streaming and capture application e-CAMView click on the **Start -> All Programs -> e-con Systems -> e-CAMView**.

This version of e-CAMView comes with a set of features that can be used to attain the full functionality of See3CAM\_12CUNIR. The Menu bar at the top contains few menu items and the lower status bar shows some information. When the application is running, the current preview resolution and the frame rate are displayed in the lower status bar. For more details please refer e-CAMView Application user manual for See3CAM\_12CUNIR document.

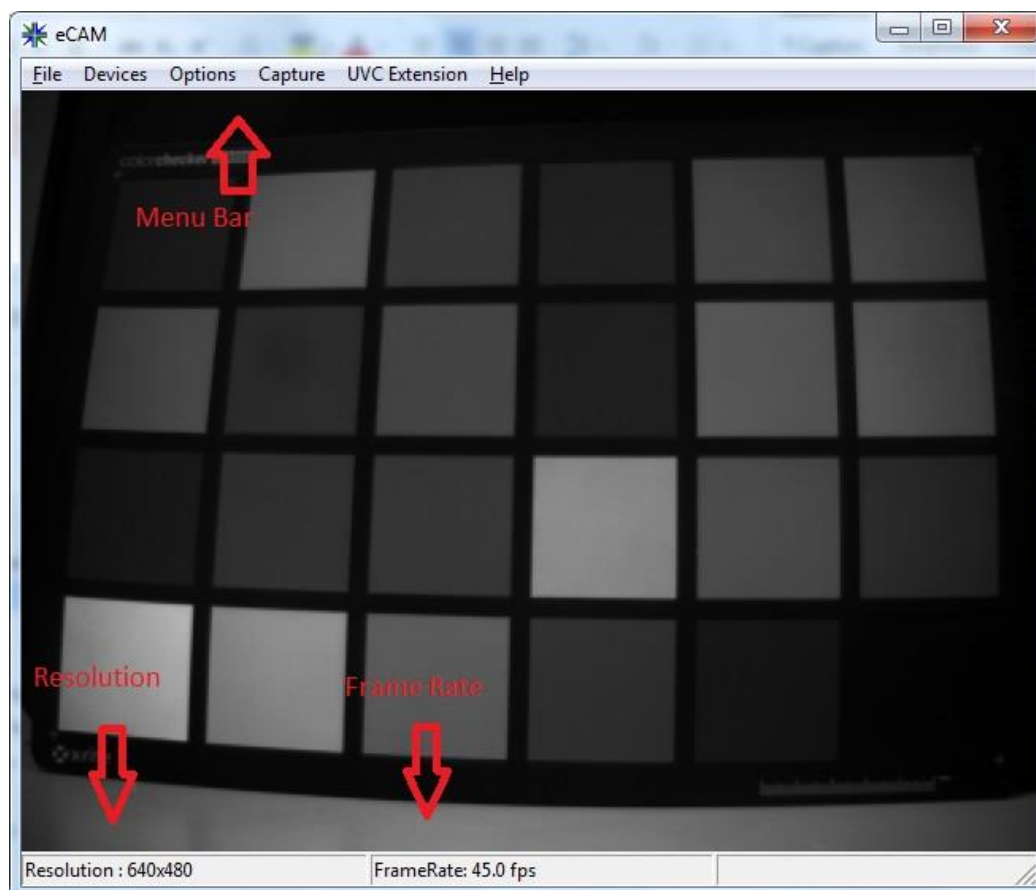


Figure 6: Application launch appearance

## 7 Conclusion

This document provides the basic steps involved in installing and launching the e-CAMView application. For additional information on the usage of See3CAM\_12CUNIR refer the specific documents provided.

