

Astra Pro UVC Support

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1. Introduction

Compared to the previous Astra series, the Astra Pro replaces the color camera with a 720P resolution, while the interface mode is changed from OpenNI to the standard UVC (USB Video Class). UVC video products can be plugged and used without installing any drivers. Since the operation of UVC is different from OpenNI, the color camera cannot be turned on with the method provided by Astra. This document describes the method to turn on Astra Pro's color camera, and the method to adjust the color camera's parameters through a standard UVC interface, such as white balance, exposure, etc.

2. Scope of Document

This document applies to Astra series' camera.

Platform Required: Windows 7 and above/ Ubuntu 14.04 and above

3. UVC Definition

Protocol defined for USB video capture devices. See the link below for details.

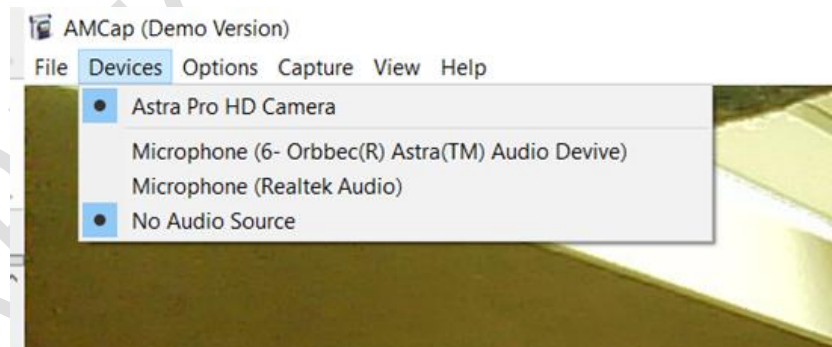
https://en.wikipedia.org/wiki/USB_video_device_class

4. Operating UVC Devices on Windows

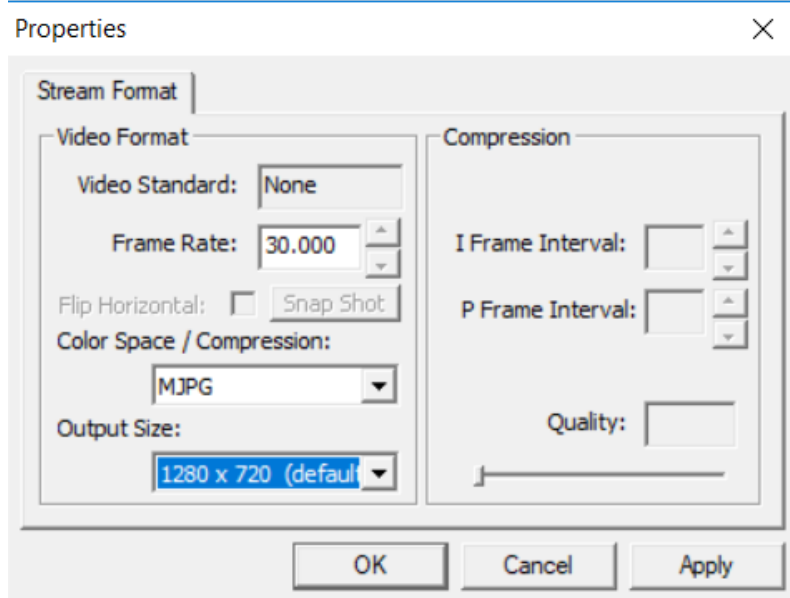
There are many method to operate UVC on Windows. The simplest way is to use AMCAP tool provided by Windows SDK. See the link below for details.

[https://msdn.microsoft.com/en-us/library/windows/desktop/dd373424\(v=vs.85\).aspx](https://msdn.microsoft.com/en-us/library/windows/desktop/dd373424(v=vs.85).aspx)

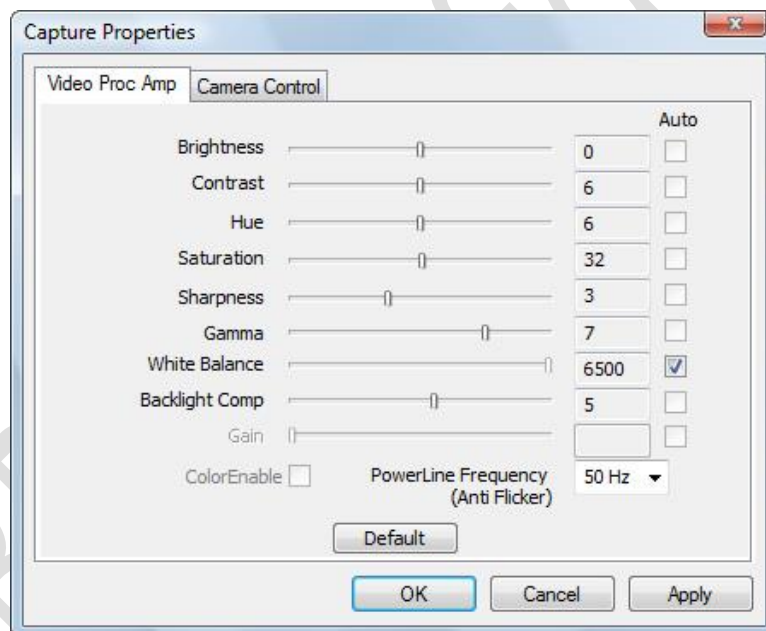
- 1) Plug in the sensor; Choose Device->Astra Pro HD Camera.

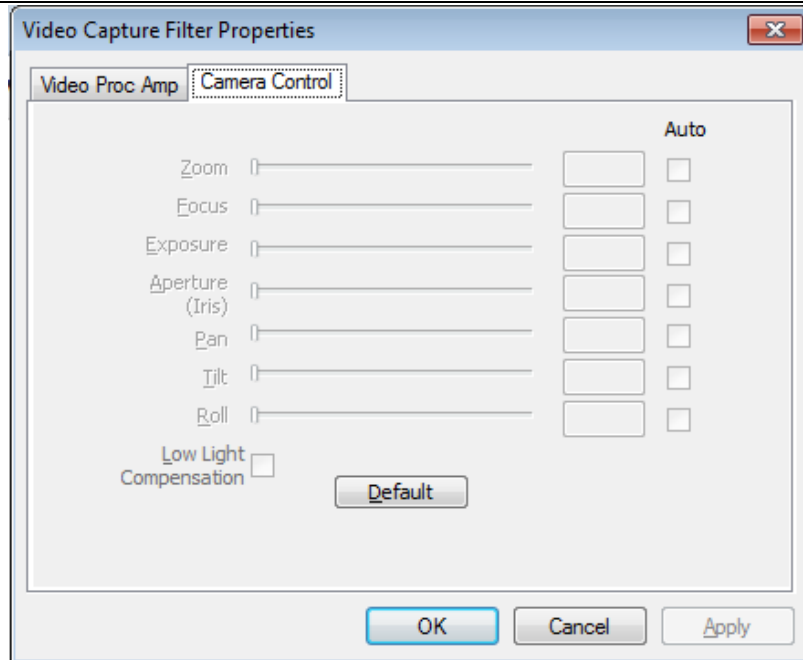


- 2) Choose Options -> Video Device -> Capture Format. It can be used to adjust resolution supported by camera.



3) Choose Options -> Video Device -> Properties. The parameter of color camera can be adjusted by UVC interface.





5. Operating UVC Devices on Linux

lucvview is often used to view UVC devices in Linux environment.

- 1) Install lucvview
\$ sudo apt-get install lucvview
- 2) Opening lucvview, then UVC devices can be operated by ICONS at the bottom of the graphical interface.

