# Apogee Aspen Quick Start Guide



## Preparing your Facility



Handle the camera and accessories with care. The Apogee Aspen weighs approx 1.4 kg [3 lb 1 oz].



Observe anti-static precautions when installing the controller card and camera.



Ensure 100 mm clearance around camera and power supply vents (Do not block vents when operating on benchtop).



Operation of the camera close to intense pulsed sources (e.g. plasma and X-ray sources) may compromise performance.



Keep dry, <70% humidity (non-condensing)



Use correct power supply and cables.



Operate between 0°C and 40°C. Refer to User guide for further information regarding ambient temperature, cooling performance and dew point.

Store between -25°C and 50°C.





# Installing the Camera Acquisition Software

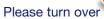
### You must have administrator access on your PC to perform this installation.

- We recommend you install your camera acquisition software e.g. Windows SDK for Apogee, Micro-Manager or MaxIm DL/CCD before setting up your Apogee camera.
- Please see the Windows SDK for Apogee, Micro-Manager or MaxIm DL/CCD installation guides for specific instructions related to installation of this software.
- Apogee cameras are supported by MaxIm DL/CCD version 3.21 and beyond.

If you are using different camera control software, please refer to the software installation information supplied with the software.

Refer to the user manual for further information.







### Install the Camera Drivers

#### WARNING:

- Do not connect your Apogee camera to a PC before installing the drivers. If you do and the "Add New Hardware • Wizard" appears, please select the Cancel button.
- Never connect or disconnect the camera from the PC during operation.
- 1. Make sure your Windows user account has administrator privileges.
- 2. Double click on the setupApogeeSoftware.

🐔 setupApogeeSoftware	25/07/2014 08:09	Application	370 KB
autorun 🖉	01/06/2012 20:30	Setup Information	1 KB
🛃 ApogeeUsb.64bit	25/07/2014 08:09	Windows Installer	3,440 KB
🔂 ApogeeUsb.32bit	25/07/2014 08:09	Windows Installer	2,674 KB
🚆 apgSwInstall_x861	25/07/2014 08:09	Cabinet File	5,388 KB
🔂 apgSwInstall_x86	25/07/2014 08:09	Windows Installer	5,629 KB
48' AIS-69x32	01/06/2012 20:30	Icon	7 KB

- 3. Follow the steps in the Installation Wizard.
- 4. Click Finish.
- 5. The drivers for your Apogee camera are now installed on your PC (A notification should be displayed in the bottom right corner of your PC screen).

### Mounting the Camera

The Aspen can be connected to a telescope, lens or other equipment using a wide range of plate-lens adapters and other accessories. An outline is shown below. Refer to your user guide and contact your customer support representative for further information if required.

- 1. Ensure the camera control software (e.g. Maxim DL/CCD) and drivers have been installed.
- 2. Attach the camera mounting adapter (or filter wheel) to the camera face plate using the supplied mounting screws.
- 3. Attach the camera and mounting assembly to the telescope or lens.
- 4. Now connect the power and signal connections.



Above: Example of some common adapter types that enable connection of the Aspen camera to a wide range of equipment.



Above: Filter Wheel attached to an Aspenready for attachment of the required lens adapter.



### Connecting your Camera and Switching it on

- 1. Insert the 12V DC power cable into the power connector on Connections panel of the camera.
- 2. Connect the supplied USB cable between the USB connecto on the camera and the corresponding slot on the PC

Optional: connect the Ethernet connector between the camer and the PC.

- 3. Optional: An 8-pin Mini DIn connection enables various hardware signals to be controlled by the device. If this is required, connect the I/O Connection cable to the I/O 8 mini DIN type connector. (refer to the user guide for further information).
- 4. Turn power to the camera ON.
- 5. Turn ON the PC.
- Start your software.
- 7. Start acquiring data.

### Note for configuraing ethernet: One of the green lights flashes and does not turn off

- First make certain that the camera is connected to the network using a network cable (Section 6)
- When a camera is first connected to a network, it requests to be automatically given an IP Address by the local network server or router that assigns addresses. This process is called DHCP (Dynamic Host Configuration Protocol). The blinking green light indicates that the camera is requesting an address. Make sure you have a router or server on your network that is capable of assigning new IP addresses using DHCP.
- Ensure under Camera settings that Ethernet is selected.



#### Camera LEDS do not light

• The LEDs should flash on startup, if this does not occur, ensure that the power cables are connected and the power is turned on.

#### Cannot find camera when using ApogeeCameraInfo

- The ApogeeCameraInfo search process takes approximately 10 seconds to complete. In extremely rare circumstances, the camera may take longer than 10 seconds to respond.
- If the first attempt to find the camera fails, try a second time. If the second attempt fails, the "Broadcast Address" field may be incorrect. Verify the correct broadcast address and try again.

technical information about the Apogee Aspen go to: www.andor.com/scientific-cameras/apogee-camera-range/aspen-ccd-series

he	
	Connections
or	
	USB to PC Power
ra	
	Ethernet To Camera
	I/O port

### For additional troubleshooting information please refer to the user manual on the CD provided and for

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