Apogee Ascent Quick Start Guide



Preparing your Facility



Handle the camera and accessories with care. Apogee Ascent weighs 0.65 kg [1 lb 4 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.

Unpacking your Camera and Accessories

Camera

Standard Items



Camera





6V Ascent

Power Supply

Apogee **Integration Starter** Kit CD



Country Specific Power Cord

USB 2.0 Cable

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

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



For more information visit: andor.com/software/software support/



Optional Items

Optional items are supplied as specified for your application at the time of ordering:

Items include:

- Lens Adapters ٠
- **Telescope Adapter** •
- **USB Extender**
- **Filter Wheel**
- Temperature compensated focuser





Filter Wheel

• Apogee Camera Control Demo software is for demo and test purposes only. Available for download from andor.com.



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	1 KB 370 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 Ascent 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 and drivers have been installed.
- 2. Attach the camera mounting adapter to the camera face plate using the supplied mounting screws. Note: if using a filter wheel the filter wheel may be supplied pre-fitted to the camera.
- 3. Attach the camera and mounting assembly to the telescope or lens.
- 4. Now connect the power and signal connections



Left: Ascent shown with filter wheel and lens adapter (Nikon) attached.



Above: Example of mounting options for the ascent.

Connecting your Camera and Switching it on

WARNING:

- appears, please select the Cancel button.
- Never connect or disconnect the camera from the PC during operation.
- 1. Insert the 6V DC power cable into the power connector on the Connections panel of the camera.
- 2. Connect the supplied USB cable between the USB connector on the camera and the corresponding slot on 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.
- 6. Start your software.
- 7. Start acquiring data.



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 Ascent go to: www.andor.com/scientific-cameras/apogee-camera-range/ascent-interline-series

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

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