

Configure Andor sCMOS with MaxIm DL



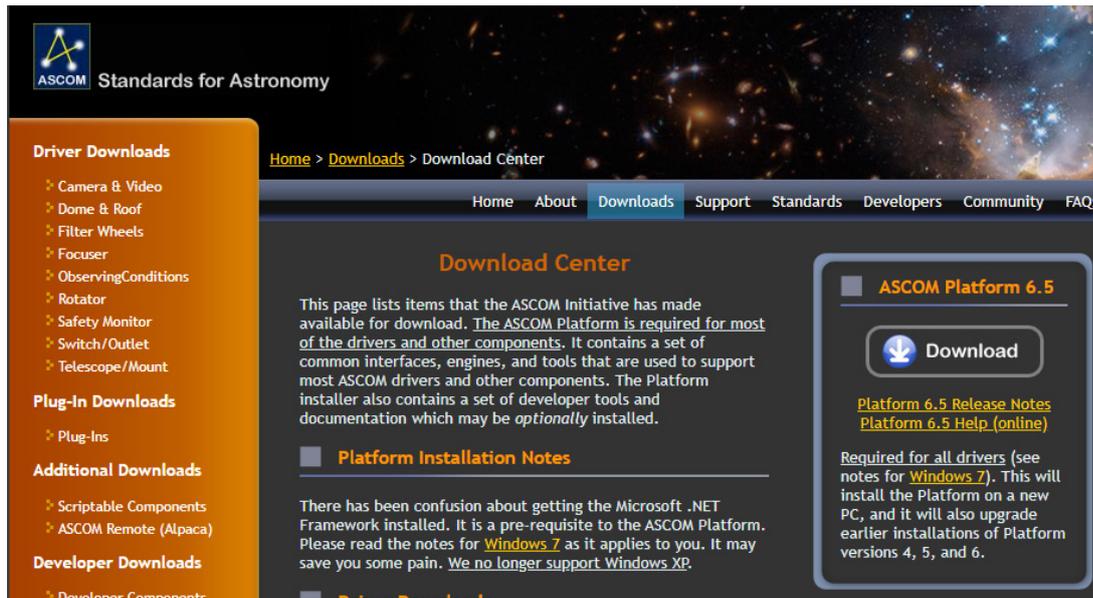
Configure your Andor sCMOS with MaxIm DL using this quick start guide.

Step 1: Install MaxImDL

Download MaxImDL from <https://diffractionlimited.com/product/maxim-dl/> and install.

Step 2: Download and Install ASCOM

Download the ASCOM Platform here: <https://ascom-standards.org/Downloads/Index.htm>



Step 3: Download and Install the Andor ASCOM driver

Download the Andor ASCOM driver here: <https://andor.oxinst.com/downloads/view/andor-ascom-setup-3.14.30031.0>

Install the Andor ASCOM driver.

Step 4: Download and Install the Andor Driver Pack 3

Download the Andor Driver Pack 3 here: [https://andor.oxinst.com/downloads/view/andor-driver-pack-3.15.30000.0-\(scmos\)](https://andor.oxinst.com/downloads/view/andor-driver-pack-3.15.30000.0-(scmos))

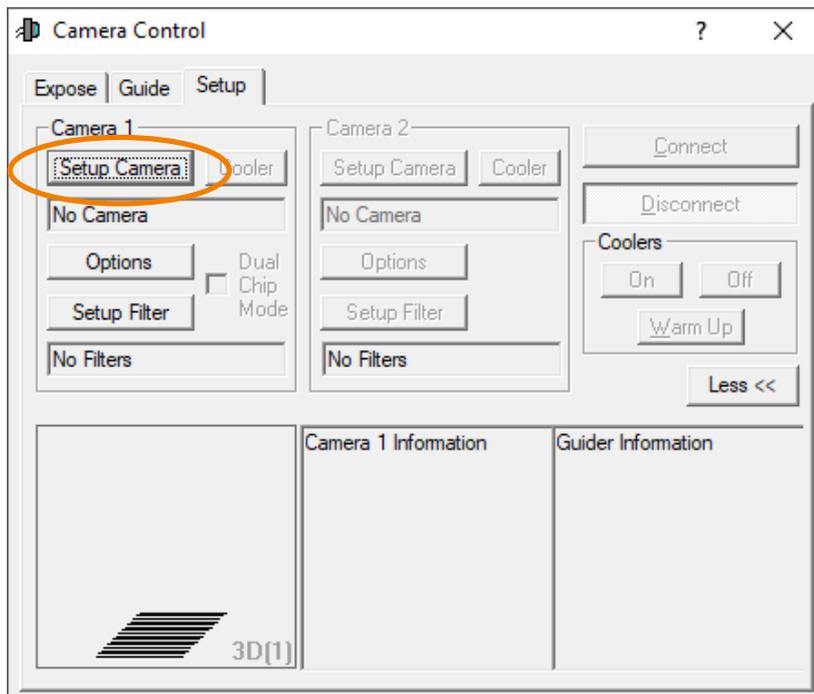
Install the Andor Driver Pack 3.

Note: If you already have another Andor software installed, e.g. Andor Solis, skip this step.

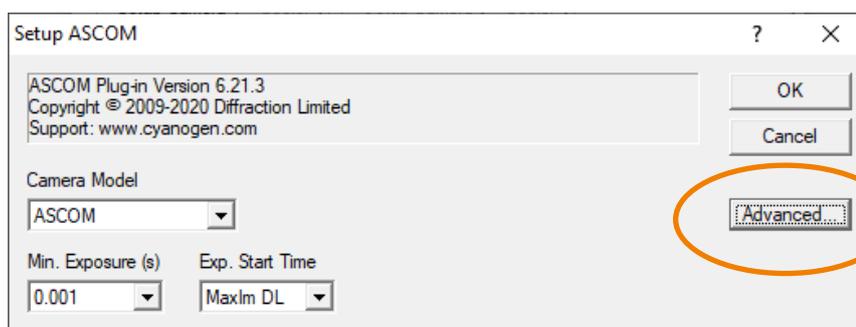
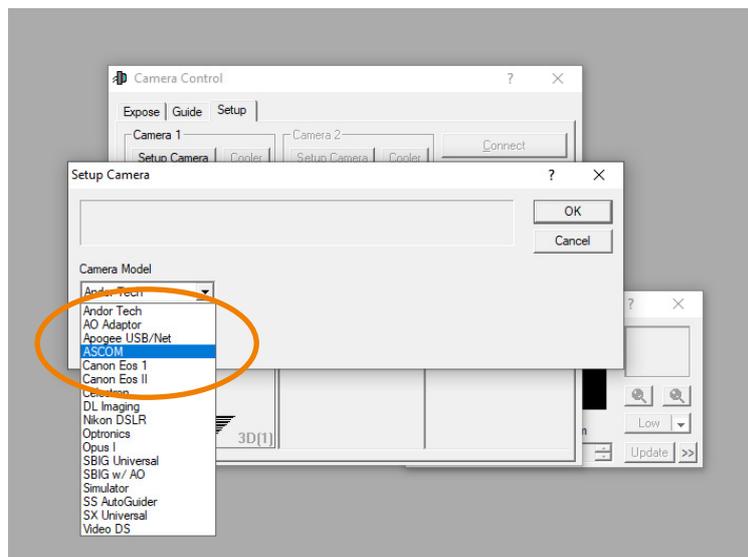
Step 5: Configure the camera:

Launch the MaxIm DL Camera Control window.

Select Setup Camera.

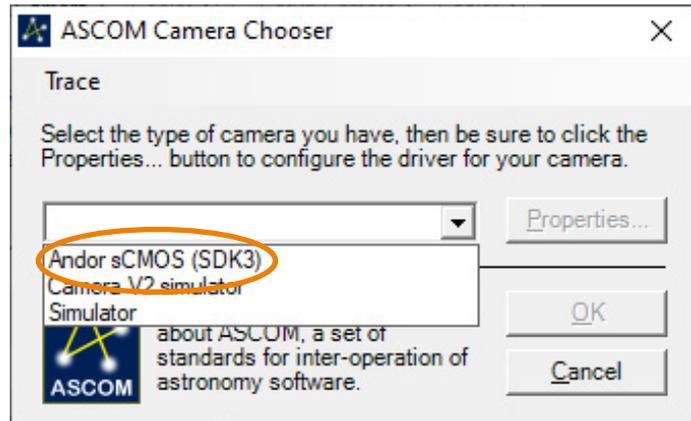


Choose ASCOM from the dropdown list.

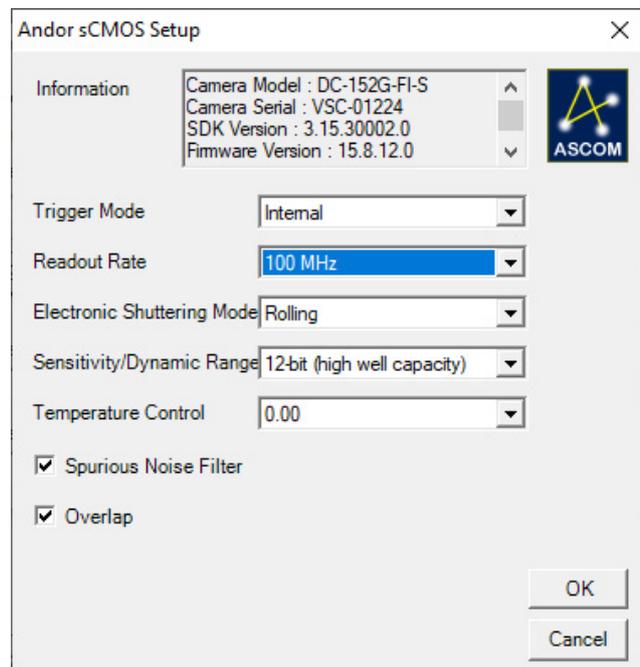


Select Advanced

In the ASCOM Camera Chooser select:
Andor sCMOS (SDK3).

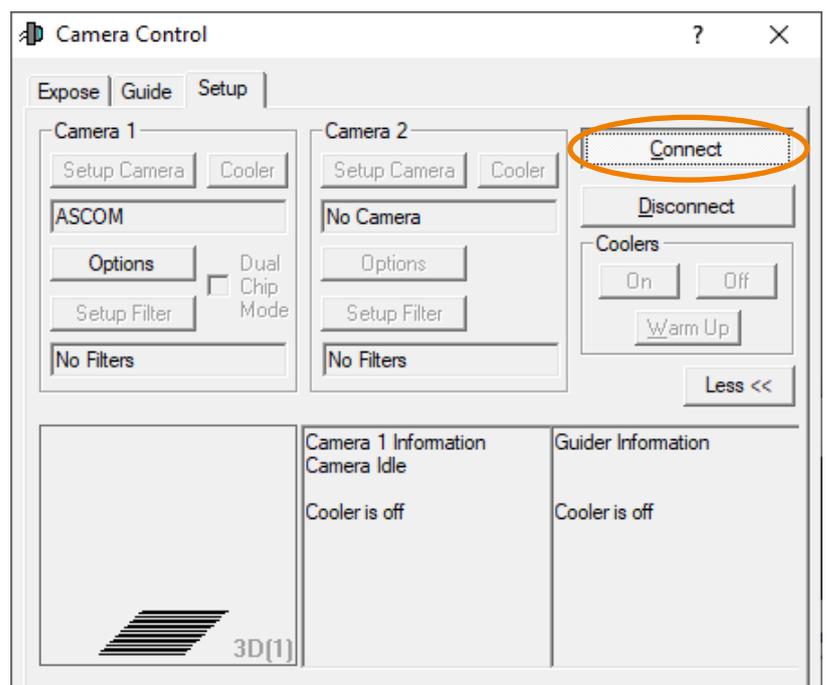


Configure your acquisition in the
Andor sCMOS Setup window
Here select your trigger mode,
pixel readout rate, electronic
shuttering mode, dynamic range,
temperature and enable Spurious
Noise Filter and overlap.



Select OK when you have made
the appropriate selections for your
experiment.

Select "Connect" on the Camera
Control Window.



Congratulations, you have now
configured and connected to your
camera for use in MaximDL.

Troubleshooting

Problem	Cause	Solution
Cannot connect to camera	Andor camera option set in camera.	Access to sCMOS cameras is provided by the ASCOM driver. This option should be selected to configure Andor sCMOS cameras in MaximDL.
Temperature control does not give expected temperature.	sCMOS cameras are optimised to give best imaging performance at specific temperature set points.	<p>Marana cameras support temperatures of 0°C, -25°C and -40°C (liquid cooling required). In this case, MaximDL will choose the closest temperature available for your camera to the requested set point.</p> <p>Zyla cameras only support a single set point of 0°C. Cooler control is restricted to enabling or disabling the cooling.</p> <p>For more specific information on cooling requirements please consult the hardware manual for the camera.</p>

For further help or support please contact our Astronomy Specialist Dr Ines Juvan-Beaulieu at ijuvan-beaulieu@andor.com