

# Configure Andor sCMOS with MaxIm DL

ANDOR

0

0)

0)

Balor

ANDOR

Zyla



**Quick Start Guide** 

andor.oxinst.com

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: <u>https://andor.oxinst.com/downloads/view/andor-ascom-setup-3.14.30031.0</u>

Install the Andor ASCOM driver.

### Step 4: Download and Install the Andor Driver Pack 3

Download the Andor Driver Pack 3 here: <u>https://andor.oxinst.com/downloads/view/andor-driver-pack-3.15.30000.0-(scmos)</u>

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.

-

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.



Andor sCMOS Setup		×
Information Ca Ca SI Fir	amera Model : DC-152G-FI-S amera Serial : VSC-01224 DK Version : 3.15.30002.0 mware Version : 15.8.12.0	ASCOM
Trigger Mode	Internal	•
Readout Rate	100 MHz	•
Electronic Shuttering	g Mode Rolling	•
Sensitivity/Dynamic	Range 12-bit (high well capacity)	•
Temperature Control	0.00	•
Spurious Noise	Filter	
I▼ Overlap		
		OK Cancel
Camera Control		? >
Expose Guide Setup		
Camera 1 Setup Camera Cooler	Camera 2 Setup Camera Cooler	Connect
ASCOM	No Camera	Disconnect
Options Dual	Options	Coolers
Setup Filter Mode	Setup Filter	Warm Up
No Filters	No Filters	Less <<

Cooler is off 3D(1)

Camera 1 Information

Camera Idle

Guider Information

Cooler is off

4

## 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.	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.
		Zyla cameras only a support single set point of 0°C. Cooler control is restricted to enabling or disabling the cooling.
		For more specific information on cooling requirements please consult the hardware manual for the camera.

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

-0-

•