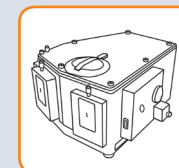


# Kymera 328i Quick Start Guide



## 2 Unpacking the Boxes

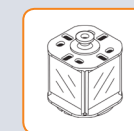
### Kymera 328i



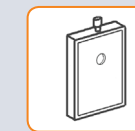
Kymera 328i Spectrograph

### Accessories

- Your Kymera 328i may be supplied with a range of different accessories.
- Check the supplied items against the packing list to ensure all items are present.



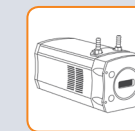
Additional Grating Turrets (s)



Accessory Slits/Coupling Interfaces



Output Port Adaptor(s)



Camera (s) (prefitted as standard)



Hex Key Set



Power Supply (with Country Specific Power Cord)



I2C Cable



USB 2.0 Cable



Software or Driver CD and User Manual on CD



Filter Insertion/removal tool

## 1 Preparing Your Facility



Handle the spectrograph and accessories with care.



Observe anti-static precautions when installing the spectrograph, camera and accessories.



Ensure sufficient clearance around cameras and power supply vents (Do **not** block vents when operating on benchtop).



Operation of the spectrograph and 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 at a constant temperature between 0°C and 30°C (temperature fluctuation during operation may result in calibration drift).  
Store between -25°C and 50°C.

**Please observe the following warning when lifting the Spectrograph:**

	CAUTION	ATTENTION
	Weight: >18kg. Two person lift required. Take care when lifting - unbalanced load.	Poids: >18kg. Deux personnes sont requises. Soulever avec précaution - charge inégalement répartie.

Refer to the user manual for further information.

## 3 Installing Software (Solis or SDK)

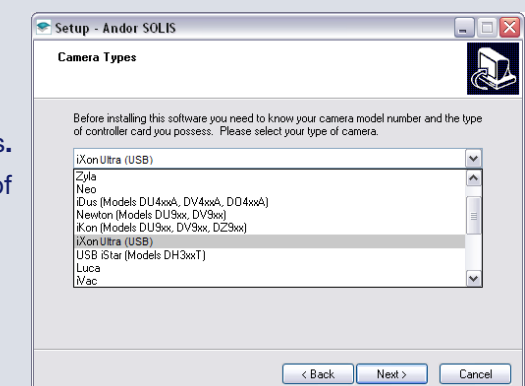
**You must have administrator access on your PC to perform this installation.**

The same instructions cover the installation procedure for Andor's Solis or SDK software, which is used in conjunction with third party software. If you are planning to run your camera through a third party interface you will require the Andor Drivers, called SDK.

Switch on the PC, insert CD and run the **Solis (or SDK) setup.exe** file on the CD or download location.

- Confirm the version of software (and 32 or 64-bit as required).
- Follow the on screen prompts.
- Select the installation directory when prompted.
- If prompted for camera type select the required camera from the options.
- On the final window click on **"Install"**. During the installation a number of other windows will appear as various drivers are installed.
- To complete the installation:
  - **USB cameras**, click the **Finish** button
  - For **non-USB cameras**, when prompted select **"Yes, restart the computer now"** and then click on the **Finish** button.

For more information visit: <http://www.andor.com/scientific-software>

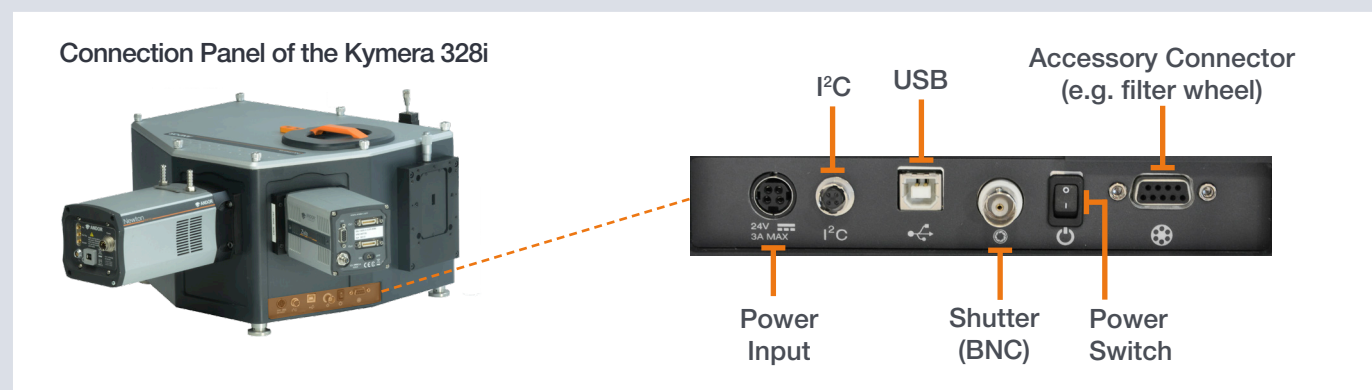




## 4 Connecting your Camera and Accessories

 **Refer also to your camera and Kymera 328i user manuals.**

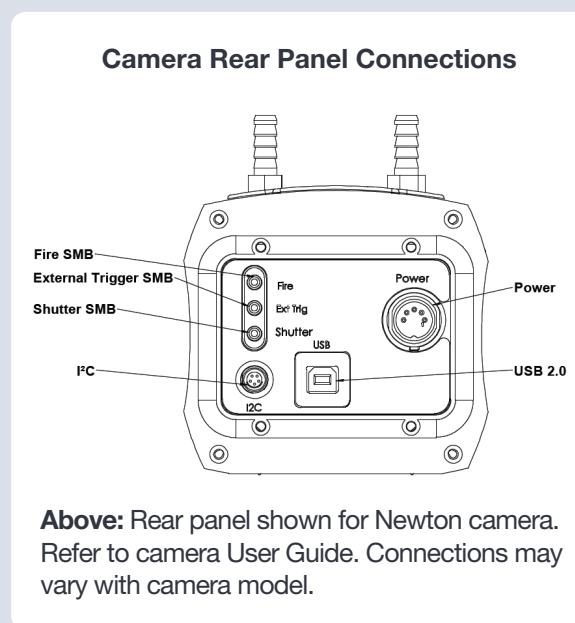
1. The 328i should be either connected to the camera by one of the following options:
  - **Option 1: I<sup>2</sup>C cable** (supplied, if applicable), *or*
  - **Option 2: USB cable** (provided).
2. If your spectrograph has a shutter, then this is controlled through the I<sup>2</sup>C cable (if used for the connection), or through the BNC connection via a cable from the camera (supplied), or for simple open/close operation no connection is required.
3. The accessories - motorised slits, filter wheel, shutter - are all 'plug and play' and do not require any setup.
4. Proceed to Section 5.



## 5 Connecting your Camera and Switching it on

 **Ensure that the camera AND your PC are switched OFF.**

1. Insert the power cable from the power supply into the power connector at the rear of the camera. Secure in position using the screwlock (where applicable).
2. Insert the mains cable into the camera power supply unit.
3. Connect the USB cable to the camera and an available USB port on the PC.
4. Switch on power to the camera (Note that the iStar also has a power switch on the rear connections panel).
5. Proceed to Section 6.

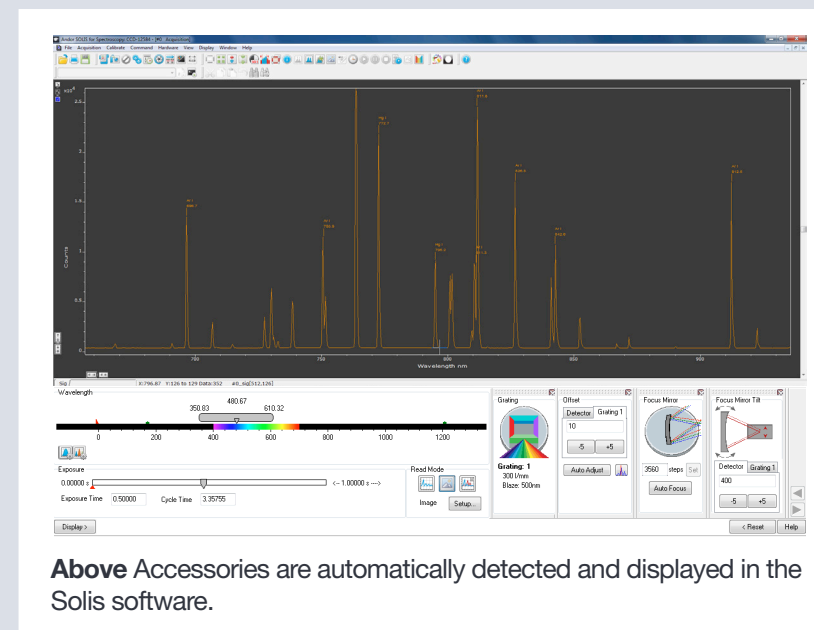


## 6 Setting up Solis for the Kymera 328i Spectrograph

 **Refer also to your Solis software guide**

### Configuring Solis for the Kymera 328i

1. Power on the spectrograph.
2. Power up the PC.
3. Wait until the short start-up tone signals the spectrograph system checks are complete.
4. Please refer to your camera and Kymera 328i user manuals for any further setup or calibration steps required before using your system.



## ? Troubleshooting

### Camera is not recognised by PC

- Check that the camera power and USB cable are connected securely and the mains power cable is inserted.
- Check that the drivers have been installed properly. (Control Panel /System/Hardware /Device Manager /Imaging Devices).



### Spectrograph is not recognised by Solis

- Ensure that the spectrograph has finished its system checks before attempting to connect with it.
- Check the connections between the camera, PC and spectrograph.

### Shutter is not opening

- The shutter should always be controllable open/closed in the Solis GUI (when shutter is present). When the I<sup>2</sup>C cable or the BNC input is used, the 'BNC' option should be selected in the software to enable operation of all shutter modes.

### Turret lid difficult to open

- Rotate the lid lock from the locked  to the unlocked  position.
- The turret lid can then be lifted up using the handle of the turret lid.

### Communication error when selecting side port

- When shipping, a locking screw is used to secure the flipper mirror in dual exit systems. This needs to be loosened fully/removed before use.



For additional troubleshooting information please refer to the user manual

For further technical information about the Kymera 328i go to [andor.com/kymera](http://andor.com/kymera)

You can find the latest user manuals on [MyAndor \(http://my.andor.com/login.aspx\)](http://my.andor.com/login.aspx)