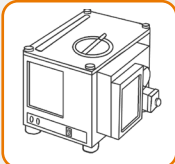


Kymera 193i Quick Start Guide



2 Unpack the Spectrograph

Spectrograph



Kymera 193i Spectrograph

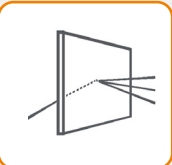
Accessories



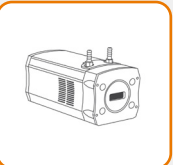
Power Supply



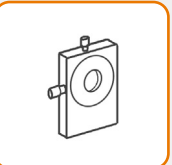
USB 2.0 & I2C Cables



Grating(s)



Camera(s)
(when applicable)



Output Port
Adaptor(s)



Hex Key Set



Documentation
scan or visit:
[andor.oxinst.com/
welcome](http://andor.oxinst.com/welcome)



Software
(copy supplied)

Please follow these guidelines when unpacking the Kymera:

1. The Kymera should be placed in the environment it will be used in for a few hours before adjustment and first use.
2. Environment should be dust free.
3. Spectrograph should be placed on a flat, stable support (e.g. optical table); Spectrograph feet are designed to be secured on an optical table with appropriate screws.

The Kymera can be supplied with a range of accessories as specified at the time of ordering. Please check the supplied items against the packing list to ensure all items are present.

1 Prepare your Facility



Handle the spectrograph, camera and accessories with care. The 193i weighs 7.5 kg [16 lb 5 oz].



Use correct power supply and cables.



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



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.



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



Keep dry, <70% humidity non-condensing.



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

Refer to the user manual for further information

3 Install Software (SDK2 or Solis)

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

These instructions cover installation of both Andor Solis and Andor SDK if ordered. A copy of the software is provided within the spectrograph box. Additionally, the latest software files are available to download on request, please sign in or create an account at andor.oxinst.com/downloads

Windows: Switch on the PC, run the setup exe from the supplied copy or the downloaded file: e.g. AndorSDK2Setup-<version>.exe

1. Confirm the version of software (minimum is v2.1.x).
2. Follow the on screen prompts.
3. Select the installation directory when prompted.
4. If prompted for select the required hardware (spectrograph and/or camera) type.
5. On the final window click on "Install". Continue to follow the on screen prompts.

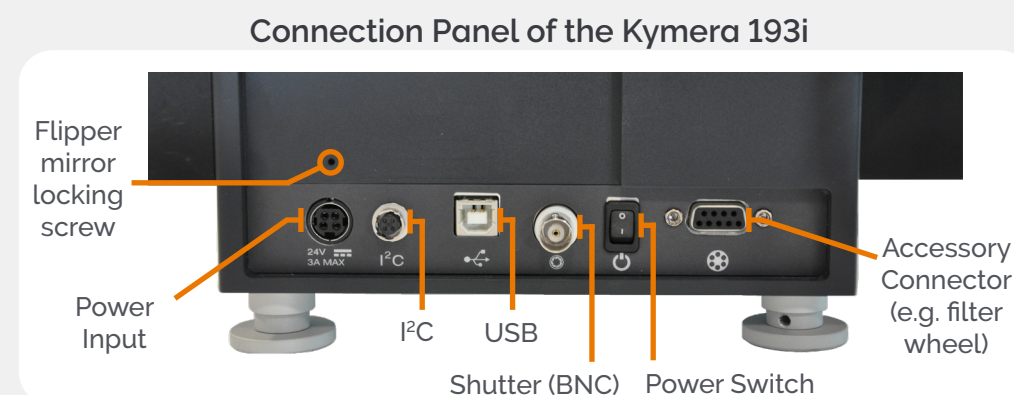
Kymera will require SDK2 or Solis installation, please see quick start guide for specific camera model software requirements.

Online access to technical documentation is available at: andor.oxinst.com/downloads

4 Connect the Camera and Spectrograph

Refer also to the Kymera 193i user guide

1. The 193i should be connected to the camera by either:
 - I²C cable (supplied, if applicable), or
 - USB cable (provided).
2. If your spectrograph has a shutter, then this is controlled through the I²C 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 193i accessories - motorised slits, filter wheel, shutter - are all 'plug and play' and do not require any setup.



Note: If your 193i is a dual exit system (model KYMERA-193i-Bx), then you must loosen fully or remove the locking grub-screw used during shipping to hold the flipper mirror in place.

5 Connect the Camera to the PC

A pre-aligned camera and spectrograph package comes pre-fitted with a flange. For a standalone spectrograph, the unit is supplied with a camera flange, the camera must be attached to the flange and the flange attached to the spectrograph body with the screws supplied. Please see the spectrograph user guide for mounting information.

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

Connect the Camera to the PC

Depending on the camera model supplied there are three types of possible connectivity between the camera and the PC:

- USB 2.0 or 3.0
- USB 2.0 or 3.0 and I²C
- Cameralink

Note for Newton, iDus, iVac and iStar models the I²C connection is strongly recommended.

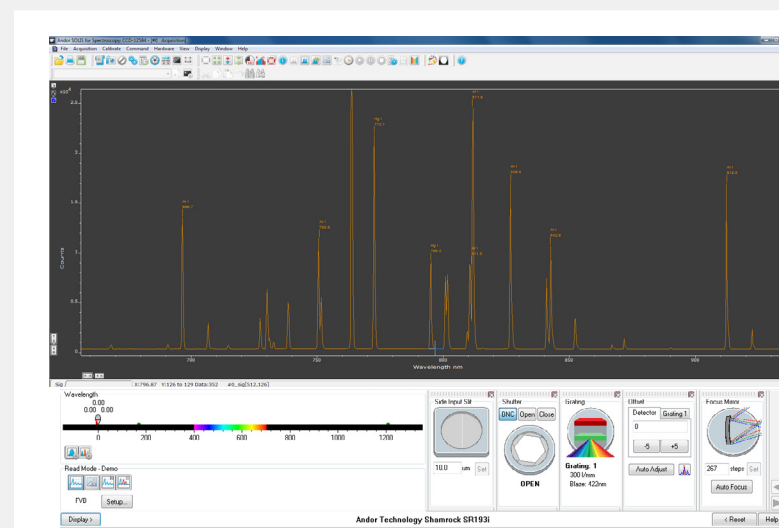
Please refer to the Quick Start Guide provided with the Andor camera for full installation directions applicable to the specific camera model.

Note that if camera is ordered for the second output port, it will arrive detached and attachment procedure as per user manual must be followed.

6 Set up Solis on the Kymera 193i

Configuring Solis for the Kymera 193i

1. Power on the Kymera 193i and if appropriate the detector, wait until the short start-up tone signals it has finished system checks.
2. Start Solis.
3. Solis will auto detect the Kymera and show a dialog on startup alerting the user of this.
4. Once fully loaded the Spectrograph control UI will show with the auto detected peripheral controls.
5. Please refer to your camera and Kymera 193i user manuals for any further setup or calibration steps required before using your system.



Above Accessories are automatically detected and displayed in the Solis software.

? Troubleshoot

Spectrograph is not recognised by Solis

- Ensure that the Kymera 193i has finished its system checks before attempting to connect with it. Check the connections between the camera, PC and spectrograph.



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).

Shutter is not opening

- The shutter should always be controllable open/closed in the Solis GUI (when shutter is present). When the I²C cable or the BNC input is used, the 'BNC' option should be selected in the software to enable operation of all shutter modes.
- Check opening/closing times have been properly setup.

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 (KYMERA-193i-Bx). This needs to be loosened fully or removed before use.

Please see the Hardware Guide for further information on Troubleshooting.

Online access to technical documentation is available at: andor.oxinst.com/downloads