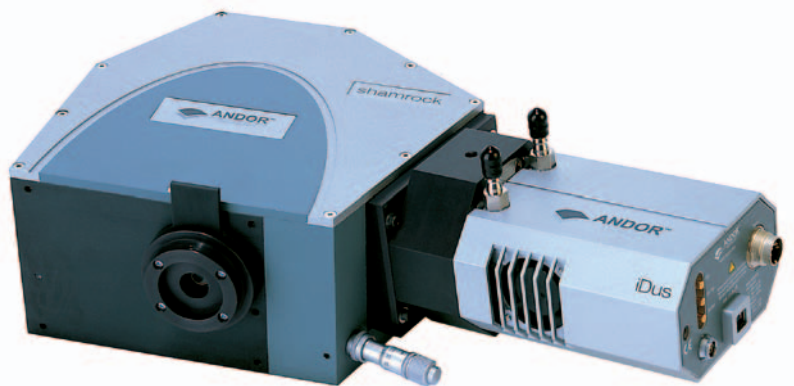
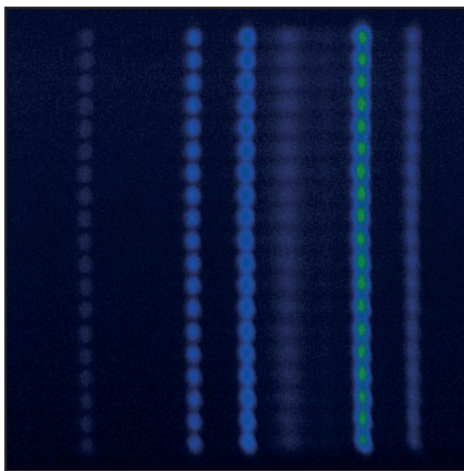
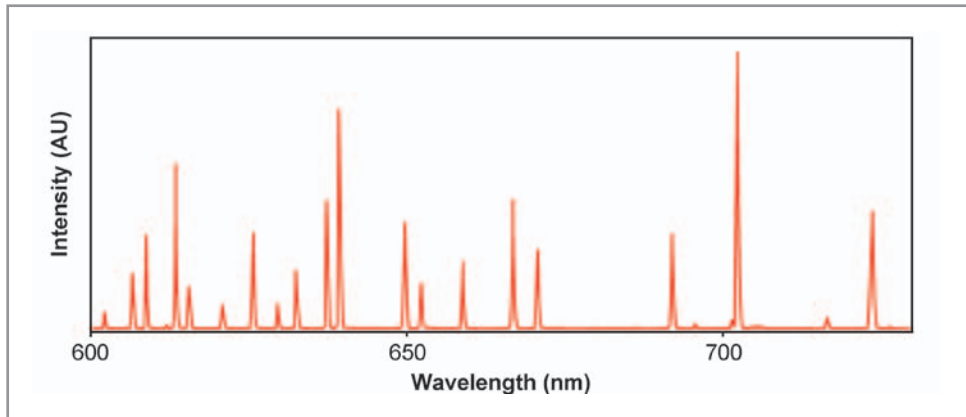


# Price performance spectroscopy...

## ...The Andor Shamrock 163i



- Patented optical design providing better resolution with higher throughput
- Interchangeable grating and fixed slit
- Robust, compact and accurate
- Wide range of accessories
- Imaging and non-imaging models available



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discover new ways of seeing™

spectroscopy

# Spectroscopy as it should be...

## ...The Andor Shamrock 163i

The Shamrock 163i is Andor's tried and tested low end spectrograph solutions. It is currently being used in a range of applications including Raman, fluorescence, absorption/transmission, LIBS and NIR spectroscopy. Combined with Andor's range of CCDs and accessories the Shamrock 163i offers the best price performance imaging spectrograph solution on the market.

### Unparalleled customer benefits include:-

**Patented optical design:** The design of the Shamrock 163i spectrograph provides better resolution with higher throughput. It is based on a Czerny-Turner optical layout and features a 163mm focal length, an entrance aperture ratio of f/3.6 and a wavelength resolution of 0.17nm.

**Interchangeable grating & fixed slit:** Gratings can be easily changed to suit your requirements without realignment. A wide selection of gratings are available.

**Robust, compact & accurate:** The Andor Shamrock 163i delivers superior, reliable performance. Its compact size, low cost and versatility make it attractive to researchers and Original Equipment Manufacturers.

**Wide range of accessories available:** The Shamrock 163i is available with a host of accessories including shutter, slits, optical fibers, calibration lamp and detector adaptors.

**Imaging & non-imaging models available:** This Shamrock model is available in two options: the Shamrock 163 and the Shamrock 163i (for multi-track spectroscopy applications).



The shamrock 163i



The shamrock 163

**Available for use with a wide range of cameras:** Including - CCDs, EMCCDs and ICCDs. Coupled to Andor's compact, high performance USB camera, the iDus, the Shamrock 163 range provides the ideal tool for absorption/transmission, fluorescence, reflection and source characterization. The Shamrock 163 range is also available as a stand-alone option.

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