

**ANDOR**  
an Oxford Instruments company

## Solis 64

Solutions for Imaging and Spectroscopy  
64-bit acquisition software



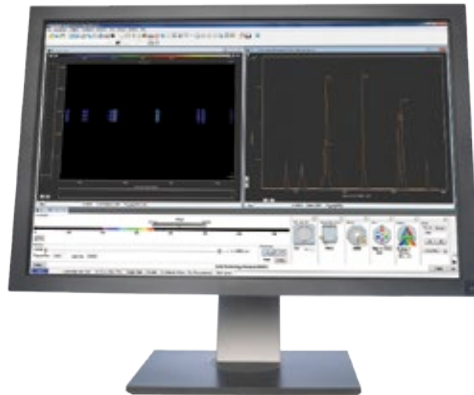
# Solis

State of the art acquisition, display and processing software



Solis is Andor's camera control and analysis software platform, with versions specifically designed to run:

- Imaging; Solis (I)
- Spectroscopy; Solis (S)
- Time resolved; Solis (T) cameras and associated accessories.



## Key Features of Solis

- Simple installation wizards depending on your hardware
- Real-time data display ideal for aligning experiments
- Real-time charting capability for optimizing your experiment
- Real-time data calculations including background correction, flat-fielding, transmission, reflectance and absorbance
- Advanced virtual memory management allows files >2GB in size to be opened and viewed with minimal performance impact on your PC
- Minimize memory usage and increase frame rate via simple sub-binning and sub-array control
- User selectable triggering options
- Comprehensive display modes - pseudo-color image, 2D, 3D stacked and overlaid
- Comprehensive AndorBasic programming language
- Compatible with Windows XP, Vista, 7 and 8 on 32-bit and 64-bit platforms

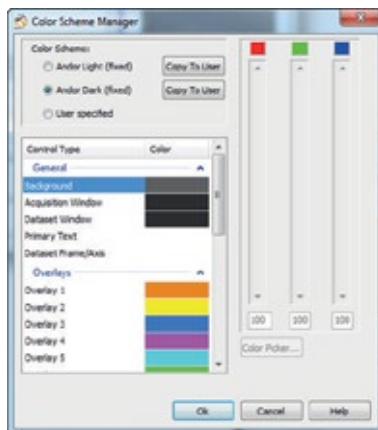
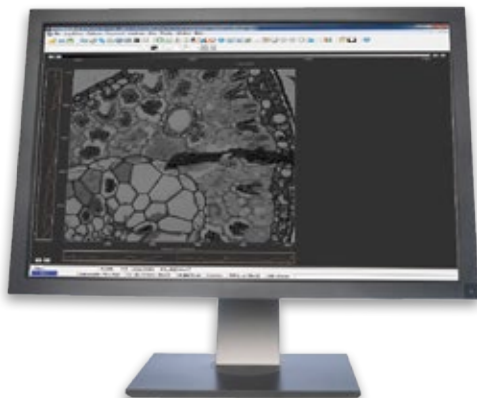
# Solis I

Designed for image capture and analysis

Andor Solis I provides the user with full control over Andor's wide range of imaging cameras.

## Key Features

- Real-time image display (video mode) ideal for aligning experiments
- Advanced data spooling direct to hard disk allowing large data sets to be acquired
- Increase signal intensity above the read noise floor with RealGain™ control (EMCCD compatible systems only)
- Minimize vibrations with "Silent Fan" operation
- Kinetic series recording and playback



*New color scheme manager*

## Key Applications

- Fluorescence imaging
- Single Photon Counting
- Bose-Einstein Condensation
- Atmospheric studies
- X-ray studies
- Raman imaging

## Key Products

- iXon EMCCD camera range
- sCMOS camera range
- Clara interline CCD
- iKon CCD

# Solis S

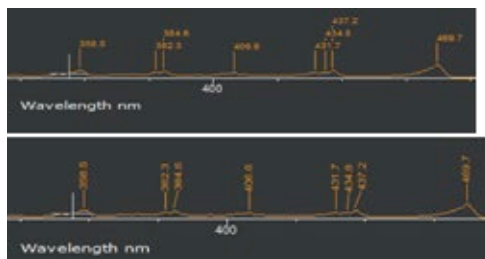
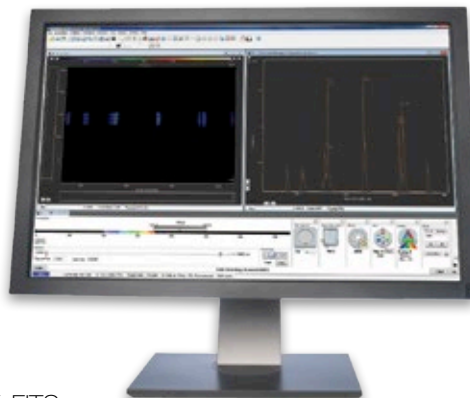
The ideal software platform for spectroscopy applications

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Andor Solis S allows the user to control Andor's range of Spectrographs and cameras in a direct and responsive manner.

## Key Features

- Full spectrograph and camera control within the same package
- Data export options SIF, GRAMS, ASCII XY, FITS
- Easy automation of your experiment with additional commands added to the AndorBasic programming language
- User defined background and data colors allow the user to optimize the screen under low light or low contrast monitors
- Flexible data display: view your data in 2D, 3D, stacked and overlaid



*Effective peak labelling*

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## Key Applications

- Photoluminescence
- Raman Spectroscopy
- Laser Induced Breakdown Spectroscopy (LIBS)
- Fast Multi-track Spectroscopy
- Hyperspectral Imaging

## Key Products

Newton CCD & EMCCD cameras  
iXon EMCCD camera range  
Intensified cameras (iStar & iZyla)  
iDus CCD  
Shamrock. Holospec, Mechelle

# Solis T

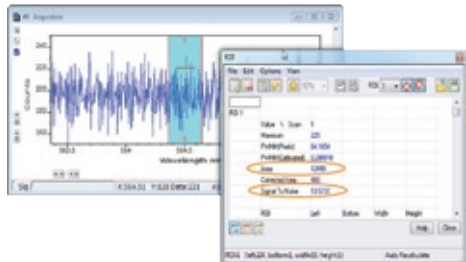
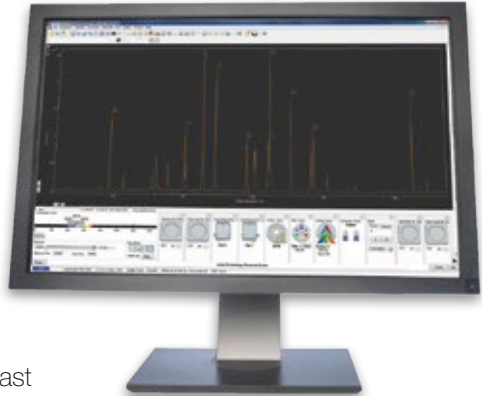
Software for time-resolved applications

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Andor Solis T is the option for time resolved work and has additional features to enable control of the iStar camera range.

## Key Features

- Easy configuration of the built-in Digital Delay Generator (DDG™) allowing you to fully control your ultra-fast gating requirements with minimum fuss
- Improved signal-to-noise with the “Integrate On Chip” function
- Advanced data spooling direct to hard disk allowing large data sets to be acquired
- Automatically locate your light pulse with Andor’s unique temporal “Find Pulse” feature: automatically scans the optical window to locate the time period with the highest signal for a given time window, then sets the gate delay and width appropriately



*New region of interest measurements*

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## Key Applications

- Laser Induced Breakdown Spectroscopy (LIBS)
- Laser Induced Fluorescence (LIF)
- Combustion
- Time-resolved Resonance Raman Spectroscopy

## Key Products

Newton CCD & EMCCD cameras  
iXon EMCCD camera range  
Intensified cameras (iStar & iZyla)  
iDus CCD  
Shamrock, Holospec, Mechelle

# AndorBasic

Programming made easy.

Solis has an extensive built-in programming language, AndorBasic, which has been specially designed to simplify even the most complex operations. For example, two images can be added and stored in a new data store by simply typing  $\#3 = \#1 + \#2$ . Easy!

As AndorBasic can be used to program image acquisitions, automate file storage, communicate with external devices and manipulate data, you can build macros to automate your experiment.

## Andor File Exchange New

Programming made easy.

- This new service available from Andor allows users to share and download code snippets and applications suitable for a range of Andor software packages.
- Do you have any custom code of your own, written for a specific or general purpose? Why not upload it, link to it from your own public profile and share it with the world at [andor.com/exchange](http://andor.com/exchange).
- Download, review and rate all the applications or contact the creator with any specific questions or requirements.



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