

## Technical Solutions Setting up Multitrack Mode in Solis Software

Multitrack mode is an option in Solis that allows the camera to acquire a specified number of tracks across the height of the CCD. Each track will contain data from a defined number of rows vertically summed together and is especially useful if using a multi leg fibre optic measuring various sources.

Multitrack mode can be enable from the Setup Acquisition menu by selecting Multi-track from the Read mode options.

Opening MT-Setup will display the following dialogue.

Setup Multi-track		×			
<ul> <li>Standard</li> </ul>		O Custom			
Number of tracks	200	Transfer			
Height	1				
Offset	0				
	w End Row	Load			
1 2		Save			
3 4		Insert			
5	~	Delete			
Horizontal binning	1				
Horizontal start	1				
Horizontal end	1024				
Flip Data Horizontally					
OK Cancel					

In this dialogue there are 2 options, Standard and Custom.

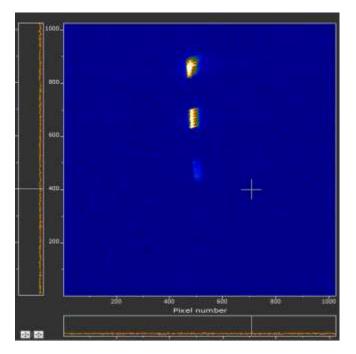
**Standard:** The number of tracks and height of each track is defined. Each track will be equally spaced out across the sensor. The offset will set the spacing between each track.

**Custom:** User defined tracks specifying the start and end rows.



## Example using 3-way fibre bundle, SR-303i Spectrograph, DH334 iStar and Solis software:

Take an image of the 3 fibre bundles to find the row positions of each.



Taken at the zero order

Take note of the row positions for each fibre bundle.

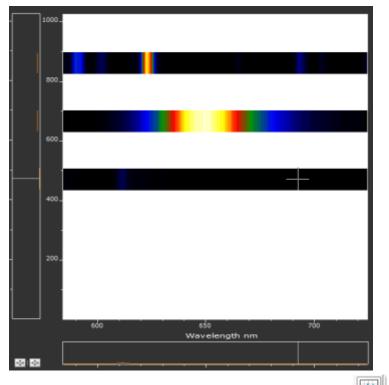
Open the Setup Acquisition and select Multi-track as the Read mode.

Acquisition Setup	<b>x</b>	Setup Multi	-track		X
Camera Setup Gating Setup Auto-Save Spooling Crop Mode Step 'n' Glue Data Averaging Filters				Custom	
Acquisition Mode Triggering Single  Timings	Readout Mode Multi-track  Vertical Pixel Shift	Number o	ofTracks	2	Transfer
Exposure Time (secs) 0.50000	Shift Speed (usecs) 6.5	Offset		0	
	Amplitude	Tracks	Start R 435	tov End Row ×	Load
	Horizontal Pixel Shift Readout Rate 5MHz at 16-bit 💌	2	630 825	700	Save
	Pre-Amplifier Gain 4x -	4			
		6 Horizonta	biopipo	•	Delete
Note: Exposure Time = Fire pulse length.		Horizonta	-01-51-51-5 <b>7</b> 5	1	
		Horizonta		1024	
		Flip D.	ata Horizo	ntally	
			OK	Cance	el

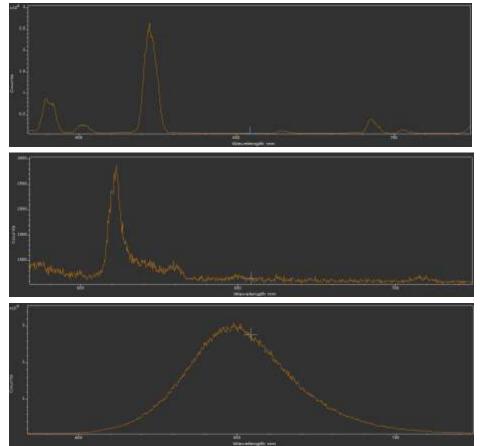
Open the **MT Setup** dialogue. In this example, Custom tracks will be defined as the fibre images are at specific rows.



Move the centre wavelength as desired and take an acquisition. Your data should appear in the following format:



Alternatively you can view each track individually as a spectra by selecting the 2D view



If you require further assistace please contact your local Product Support team via the Andor website: <a href="http://www.andor.com/support">www.andor.com/support</a>