

Symphony CCD

Orchestrate Your Experiment With the New Symphony CCD!



- Ultra-sensitive
- High Speed
- Low Noise



Specialists in Spectroscopy

Optical Spectroscopy Division

Symphony CCD Detectors

Symphony CCD detectors are a family of array detectors from Jobin Yvon - the world leader in optical spectroscopy. Symphony CCD detectors offer a unique combination of outstanding sensitivity, high speed, low noise, ruggedness and durability, all in compact and economical packages. These array detectors have totally revolutionized spectroscopic detection with the ultimate performance in a wide range of spectroscopic applications.

The CCD for Spectroscopy

All Symphony detectors use high quality scientific grade CCD sensors. With an extensive selection of chip formats, choosing the most appropriate sensor for your Symphony detection system will depend on the intended spectroscopic application.

Symphony controllers provide extremely low read noise and fast acquisition speeds, allowing users to obtain optimum results in minimum time. Users can easily select and store detector parameters for X and Y Binning, define areas, select a gain, select an ADC mode and regulate temperature functions. Experiment timing may also be regulated via user programmed Input and Output Triggers.

Software

All components of the Symphony spectroscopic system are fully integrated into Jobin Yvon's SynerJY software. SynerJY is general purpose data analysis and data acquisition software that provides a wide range of acquisition modes and offers complete experimental control. Collecting spectra and images has never been easier!

Features

- Minimized system noise.
- 16 Bit ADC with 20kHz to 1MHz readout rates.
- Expandable for future uses with an upgradeable ADC (via JY ADC Plug-in Card) – Plan for the future!
- Onboard memory for data storage during demanding experiments.
- Fast TCP/IP Interface with 100% data integrity ensures against data transmission errors.
- User programmable Input and Output Triggering.
- Universal AC Power Input – Plug it in anywhere in the world without setting switches or fuses!
- Liquid Nitrogen (LN₂) and Thermo-Electric (TE) cooling options with software settable temperature control.
- Built-in TE power supply – No external power supply needed!
- Controller equipped to automatically recognize the detector head in use – Easily interchange detector heads!
- Built-in self diagnostics – Always know the state of your system!
- Operational with SynerJY software – Designed and built to maximize your results!
- Fully CE compliant.

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