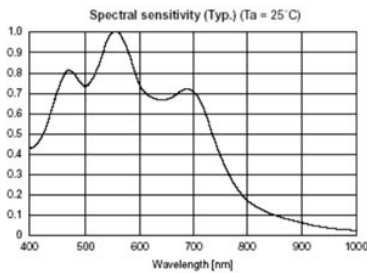




Detectors - DCCD100 CCD Data Collection System

The DCCD100 consists of SONY ILX511 linear CCD-array detector, DSP (Digital Signal Processor) integrated into a detector head that is easily fitted to the Omni-lambda series spectrographs. This detector system is ideal for many spectroscopic applications, for example: illumination source testing, LED testing, flash light, fluorescence and phosphorescence etc. The system exposure time, scan rates, and data collection are all controlled via the supplied software and offer a flexible, high performance yet low cost alternative to thermo-electrically cooled scientific grade CCD detectors. DCCD100 can be used with all Omni-lambda spectrographs. It is already widely used in industry, agriculture, process monitoring, metallurgy, environment protection, scientific research and education. Included in its list of benefits are high sensitivity, single shot capability, easy to use and low cost.



SPECIFICATIONS

Spectral response characteristics curve See Drawings

Number of pixels	2048
Pixel size	14 μm x 56 μm
Central Distance of ??	14 μm
Sampling Speed	10 μs / pixel
Pixel readout range	Start: 0-2046 End : 1-2047
Exposure time	0.1 μs - 65535 μs is adjustable
Power supply	5 V
Working Temperature	-10° to +60°