DField-VS-A4 TE-Cooled Spectroscopy CCD, -60 °C Cooling, 30.7 mm Wide Sensor

Model DField-VS-A4 · waveqvanta.com/products/dfield-vs-a4-te-cooled-spectroscopy-ccd

Deep-cooled spectroscopy CCD that records a broad spectral band in a single exposure.



The DField-VS-A4 is a thermoelectrically cooled scientific CCD for spectroscopic detection. The sensor is cooled to -60 °C at 25 °C ambient and is 30.7 mm wide, so a broad wavelength band can be captured in one acquisition. It uses 15 µm pixels and reaches a peak quantum efficiency of up to 95% at 800 nm.

Key features

- Thermoelectric cooling to -60 °C at 25 °C ambient temperature
- Peak quantum efficiency up to 95% at 800 nm
- 30.7 mm wide sensor captures a broad spectral band in a single shot
- 15 µm pixel size for high spectral resolution
- Low dark current and low read noise

Specifications

Detector Type	TE-cooled scientific CCD
Cooling Temperature	-60 °C at 25 °C ambient
Peak Quantum Efficiency	Up to 95% at 800 nm
Sensor Width	30.7 mm
Pixel Size	15 µm

Typical applications

- Raman spectroscopy
- Photoluminescence and fluorescence spectroscopy
- Low-light spectral measurements
- Multichannel detection on imaging spectrographs